

# Parameters, Interaction, and Model Selection in Distributional Semantics

## Supplementary Materials

Gabriella Lapesa, May 2019

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**Part I**

# **Window-based models**

# 1 Distribution of Performance

## 1.1 Multiple choice: TOEFL

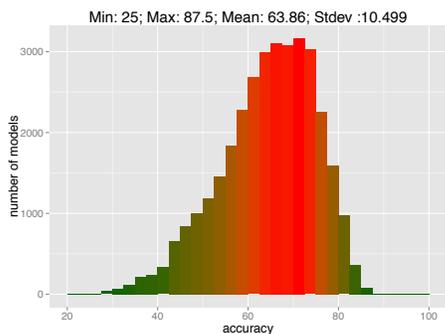


Figure 1.1: Unreduced

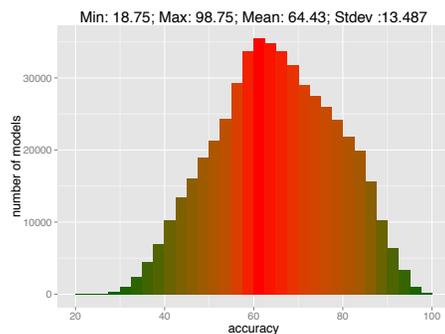


Figure 1.2: Reduced

## 1.2 Prediction of similarity ratings: RG65

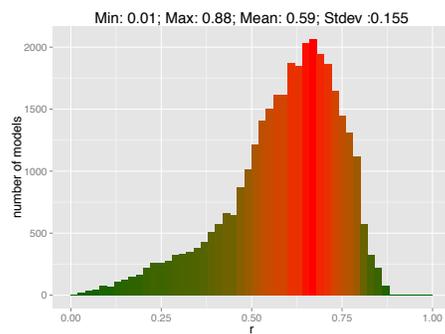


Figure 1.3: Unreduced

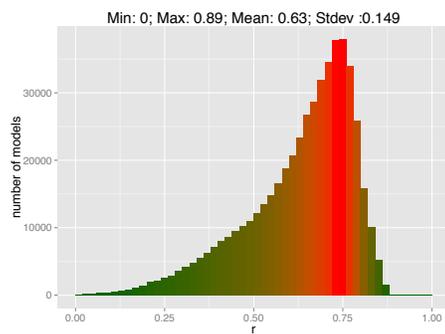


Figure 1.4: Reduced

## 1.3 Prediction of similarity ratings: WS353

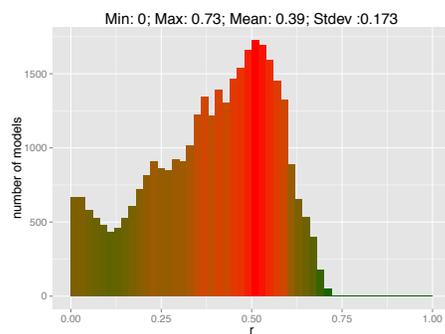


Figure 1.5: Unreduced

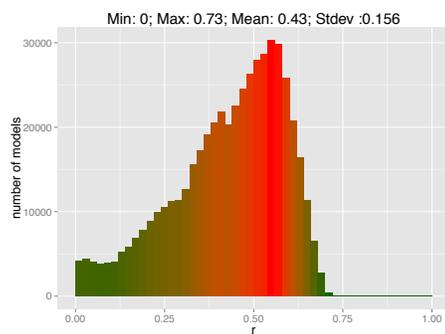


Figure 1.6: Reduced

## 1.4 Clustering: Almuhareb-Poesio

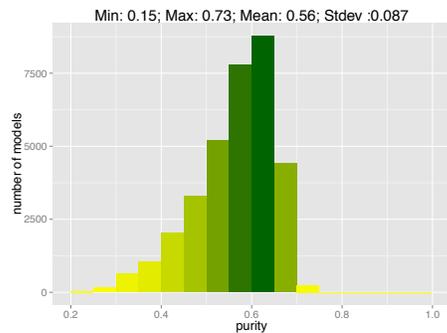


Figure 1.7: Unreduced

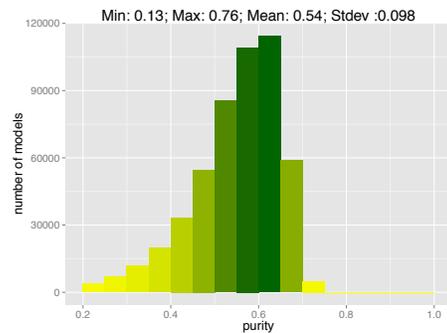


Figure 1.8: Reduced

## 1.5 Clustering: BATTIG

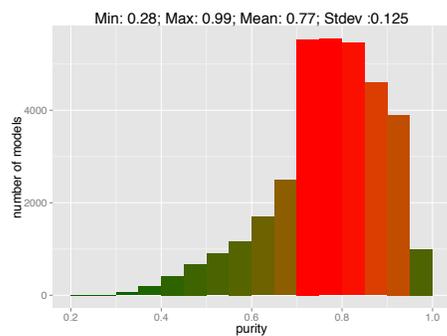


Figure 1.9: Unreduced

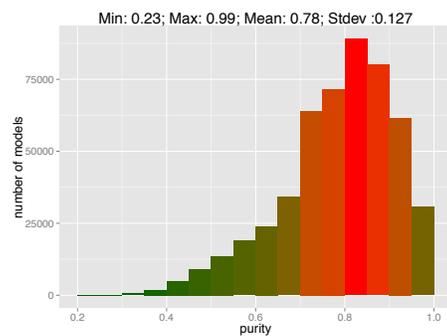


Figure 1.10: Reduced

## 1.6 Clustering: MITCHELL

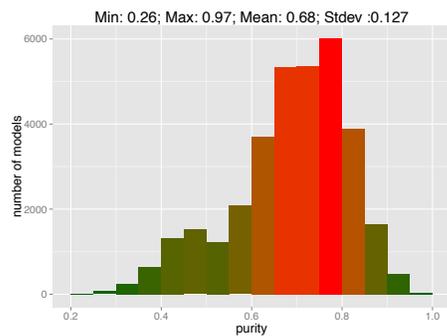


Figure 1.11: Unreduced

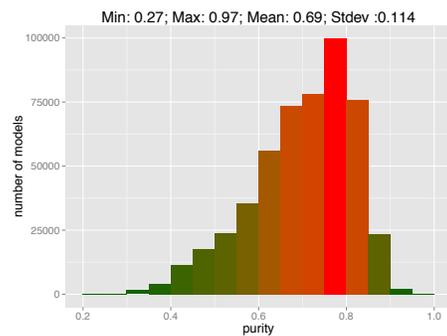


Figure 1.12: Reduced

## 1.7 Clustering: ESSLI

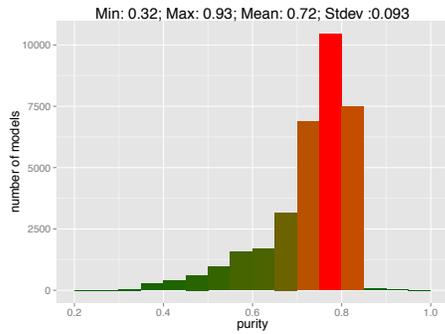


Figure 1.13: Unreduced

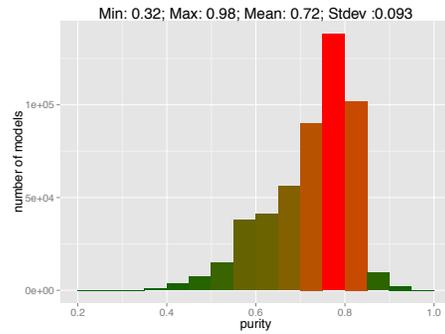


Figure 1.14: Reduced

## 1.8 Semantic priming, multiple choice: SYN

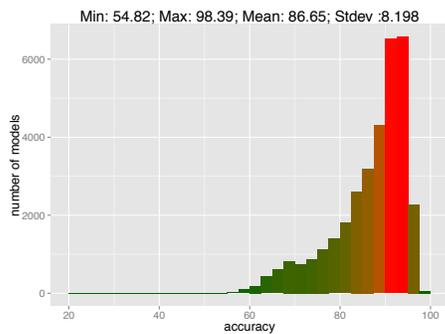


Figure 1.15: Unreduced

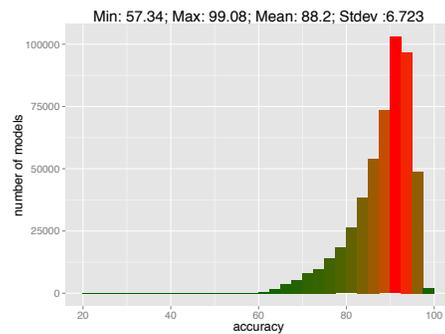


Figure 1.16: Reduced

## 1.9 Semantic priming, multiple choice: ANT

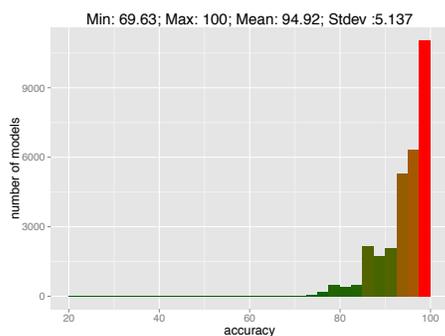


Figure 1.17: Unreduced

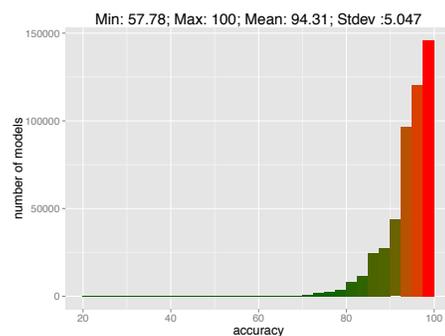


Figure 1.18: Reduced

## 1.10 Semantic priming, multiple choice: COH

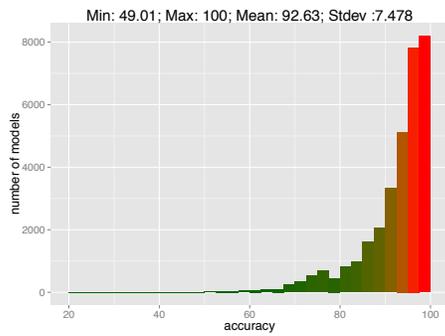


Figure 1.19: Unreduced

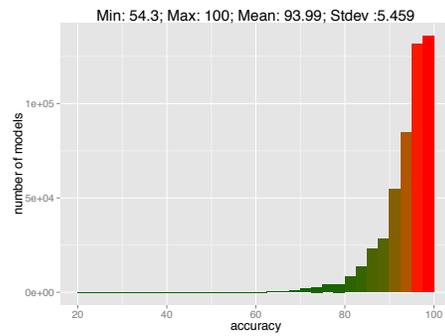


Figure 1.20: Reduced

## 1.11 Semantic priming, multiple choice: FPA

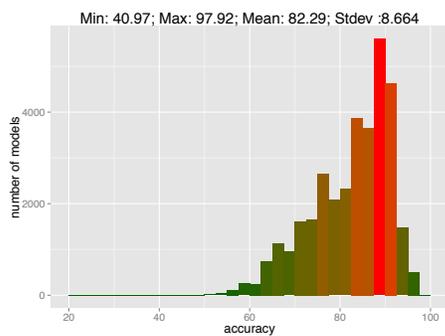


Figure 1.21: Unreduced

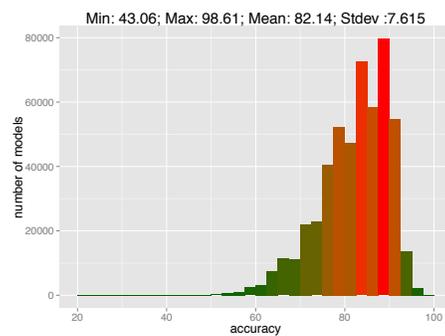


Figure 1.22: Reduced

## 1.12 Semantic priming, multiple choice: BPA

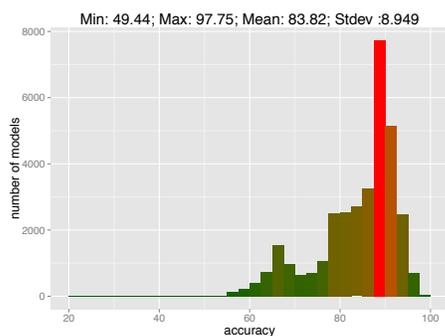


Figure 1.23: Unreduced

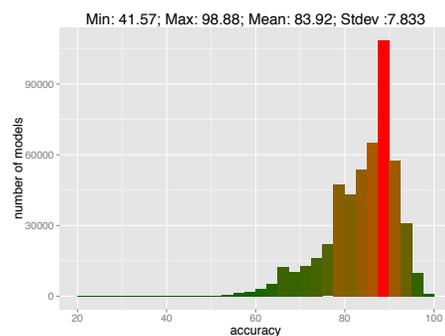


Figure 1.24: Reduced

### 1.13 Semantic priming, multiple choice: GEK

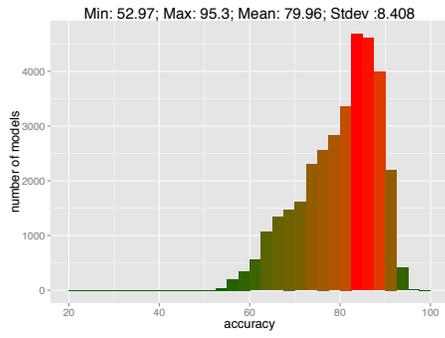


Figure 1.25: Unreduced

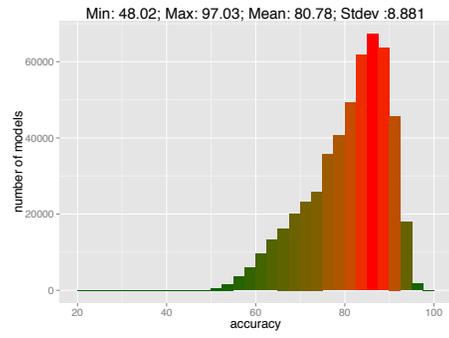


Figure 1.26: Reduced

## 2 Explanatory Power of DSM Parameters

### 2.1 TOEFL

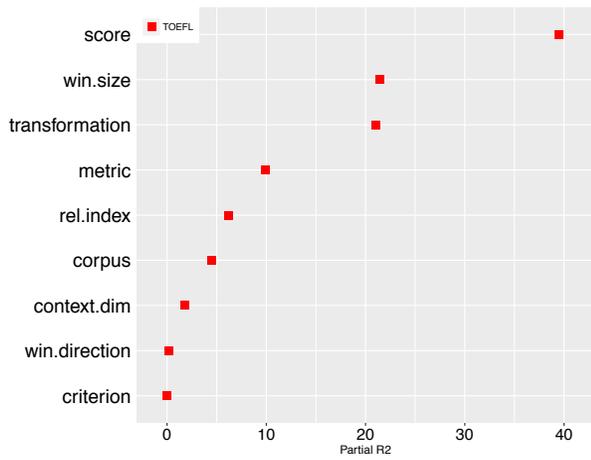


Figure 2.27: Unreduced

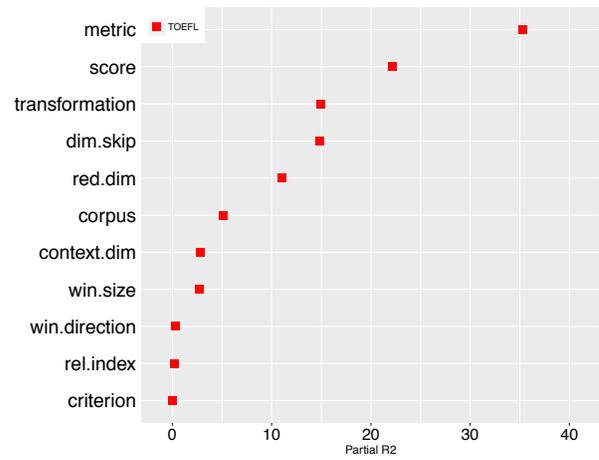


Figure 2.28: Reduced

### 2.2 Ratings

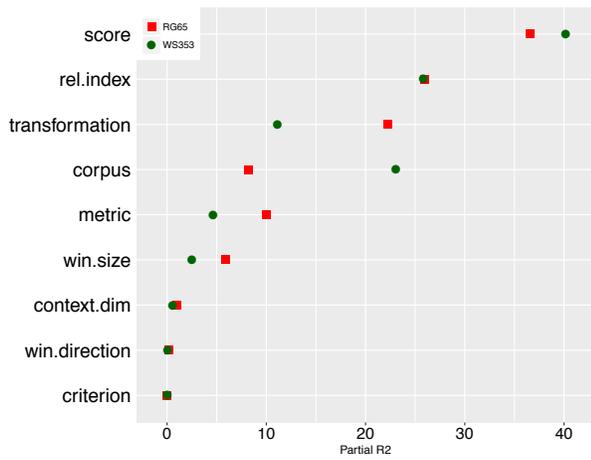


Figure 2.29: Unreduced

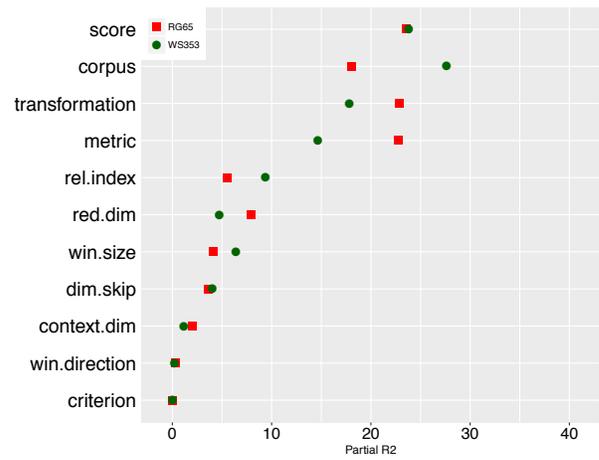


Figure 2.30: Reduced

## 2.3 Clustering

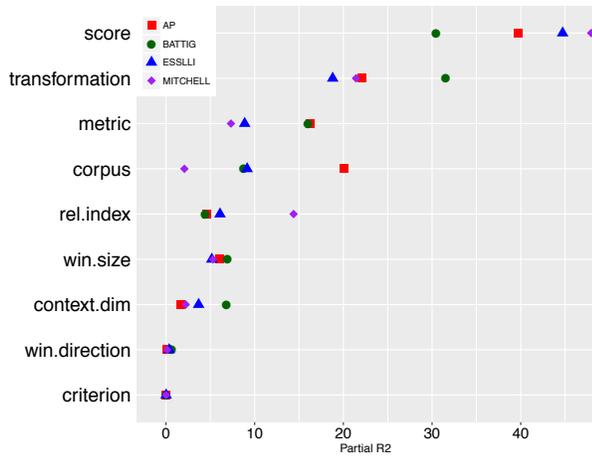


Figure 2.31: Unreduced

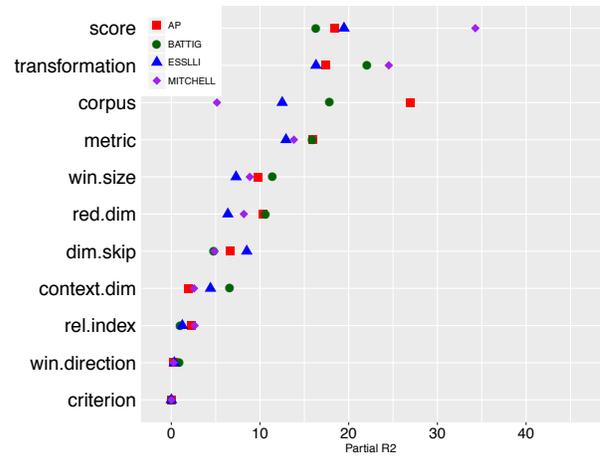


Figure 2.32: Reduced

## 2.4 Semantic priming, paradigmatic relations (SYN, ANT, COH)

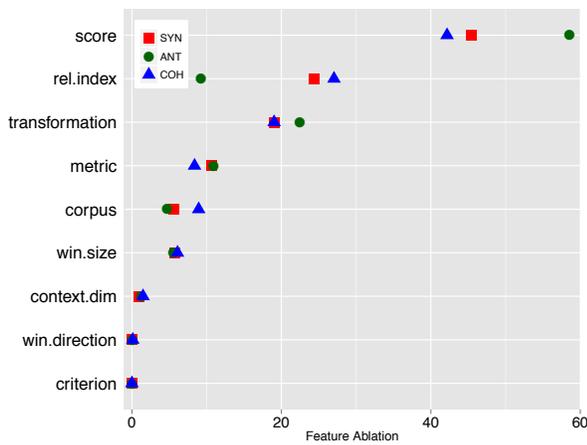


Figure 2.33: Unreduced

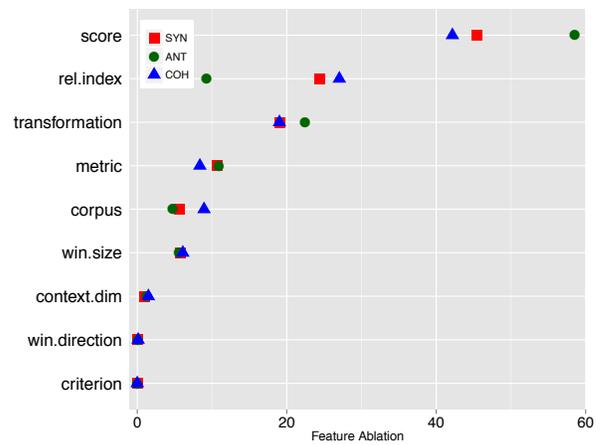


Figure 2.34: Reduced

## 2.5 Semantic priming, syntagmatic relations (FPA, BPA, GEK)

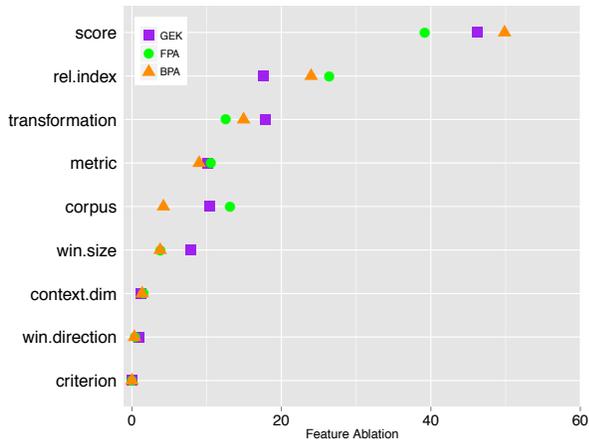


Figure 2.35: Unreduced

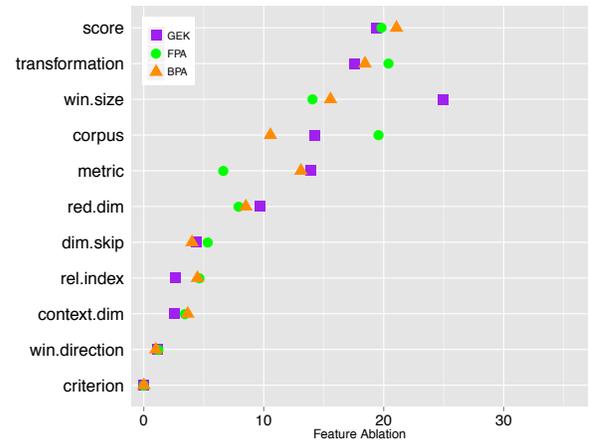


Figure 2.36: Reduced

### 3 Effect plots

#### 3.1 TOEFL

##### 3.1.1 Main Effects

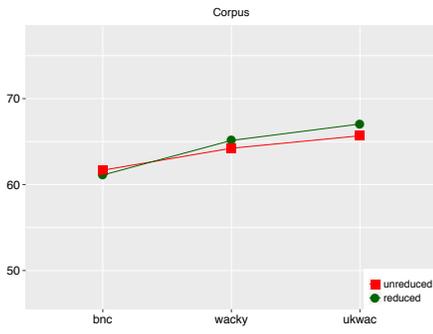


Figure 3.1

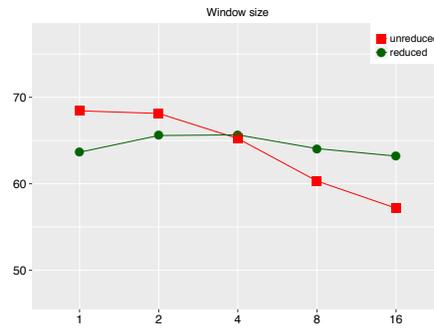


Figure 3.2

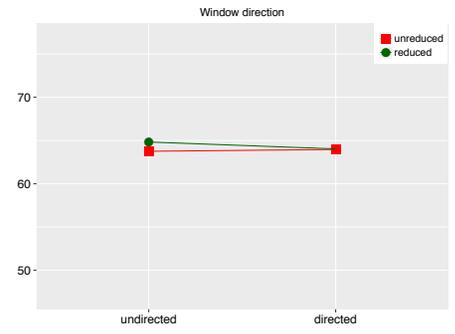


Figure 3.3

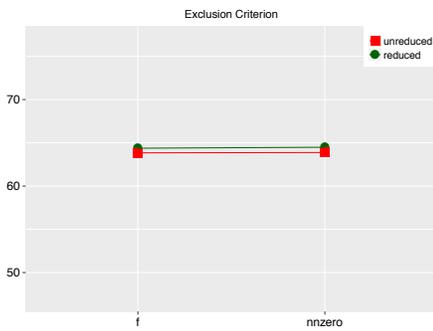


Figure 3.4

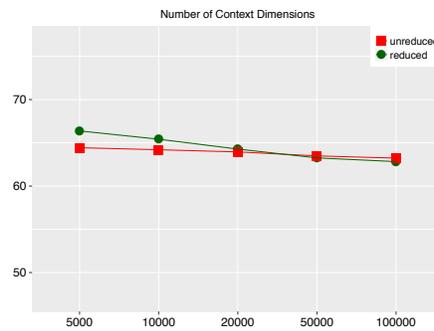


Figure 3.5

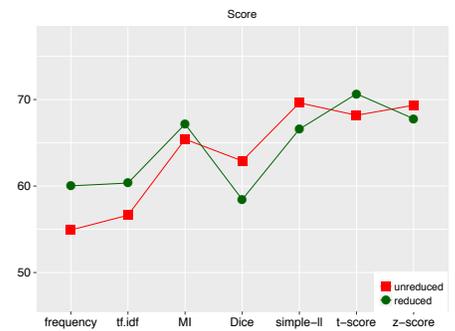


Figure 3.6

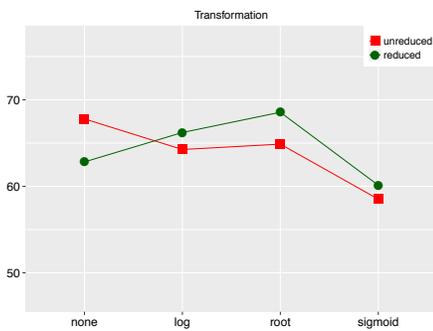


Figure 3.7

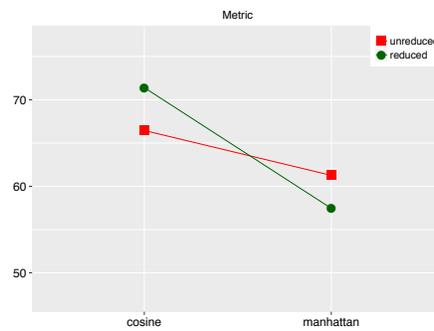


Figure 3.8

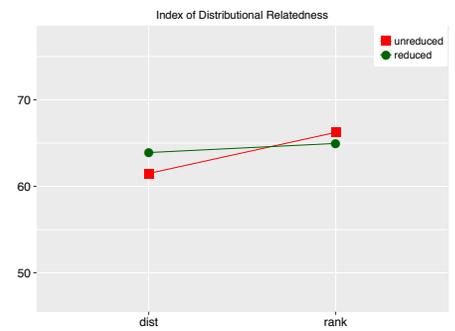


Figure 3.9

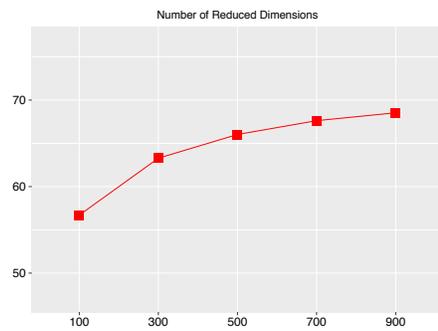


Figure 3.10

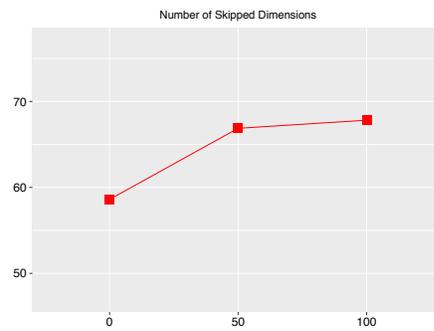


Figure 3.11

### 3.1.2 Interactions: unreduced

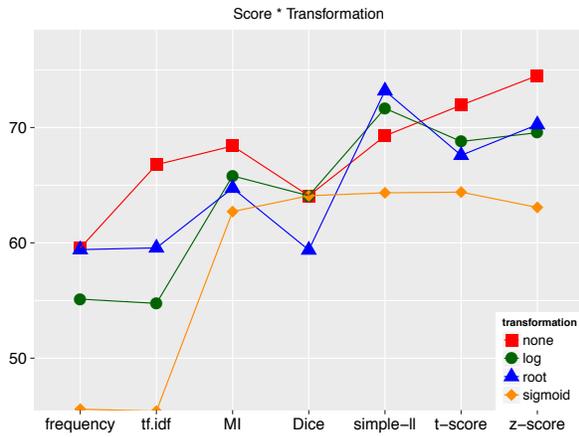


Figure 3.12

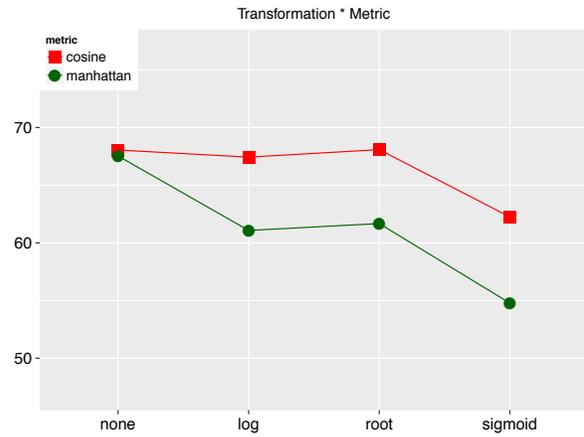


Figure 3.13

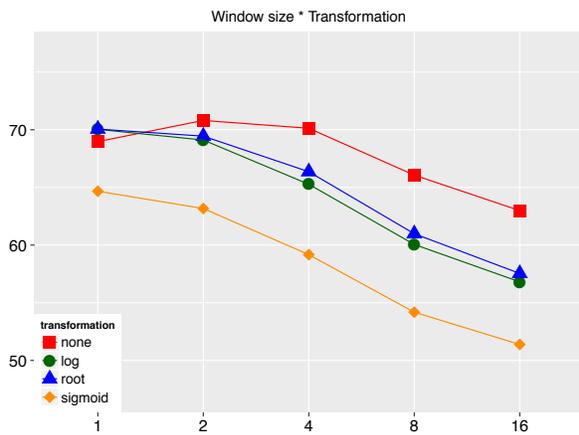


Figure 3.14

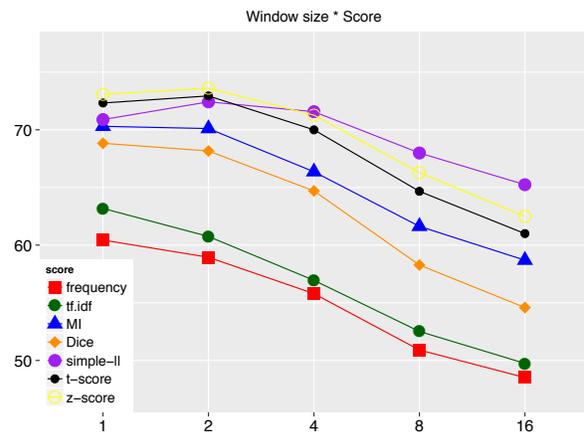


Figure 3.15

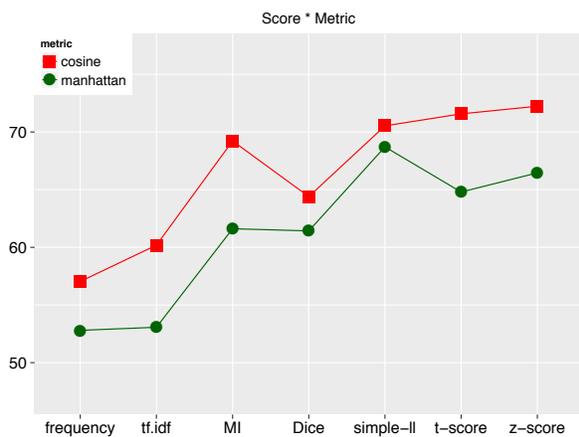


Figure 3.16

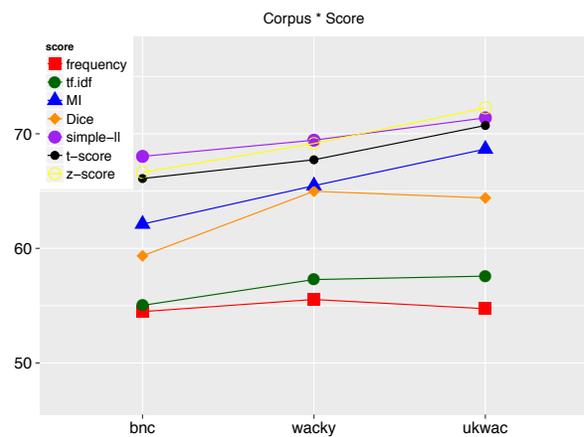


Figure 3.17

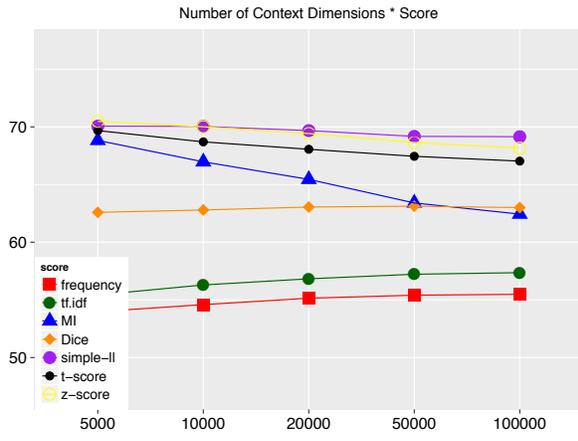


Figure 3.18

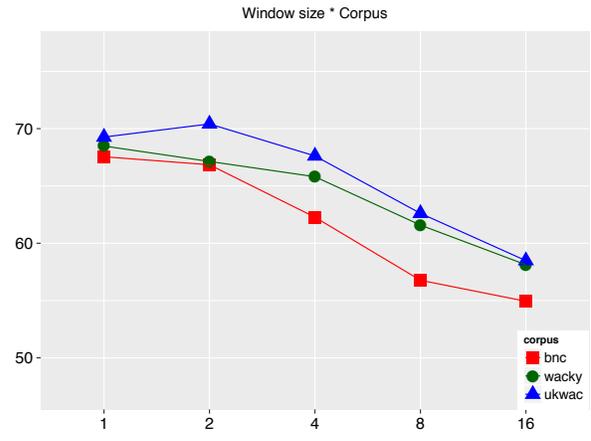


Figure 3.19

### 3.1.3 Interactions: reduced

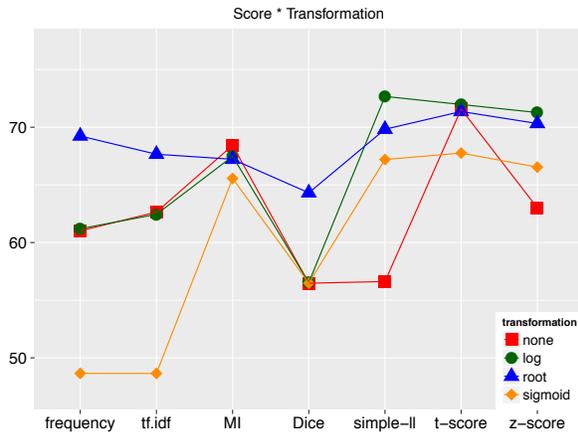


Figure 3.20

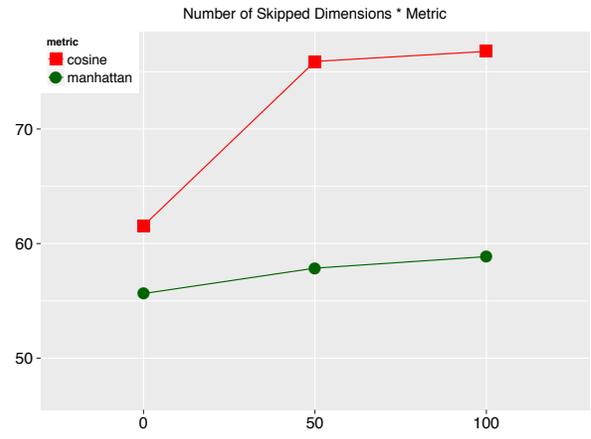


Figure 3.21

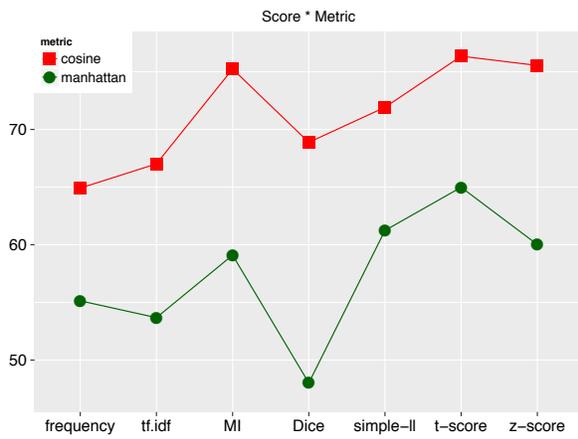


Figure 3.22

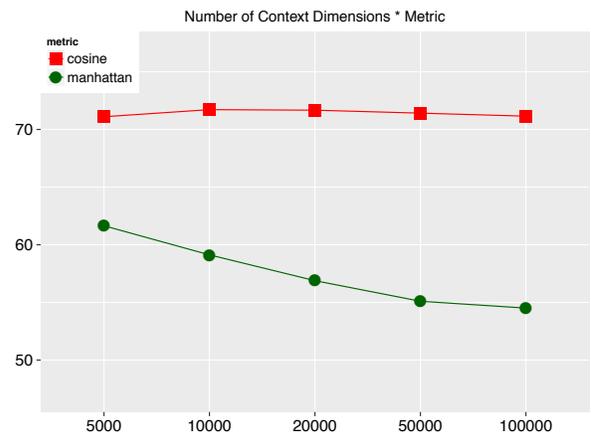


Figure 3.23

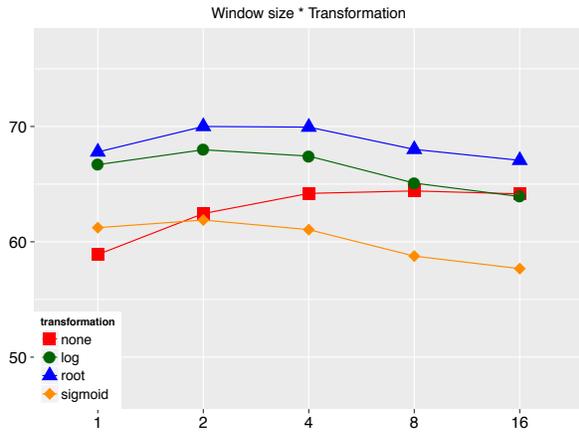


Figure 3.24

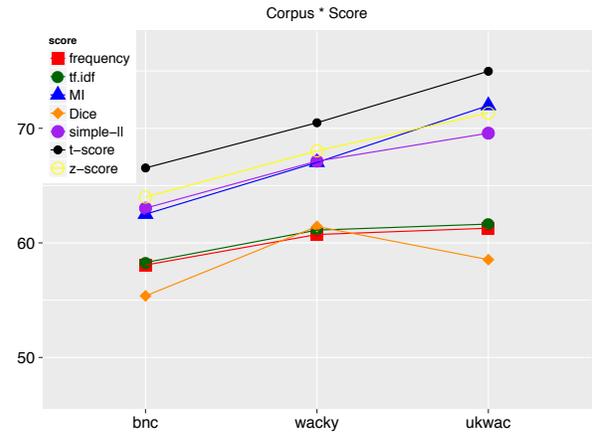


Figure 3.25

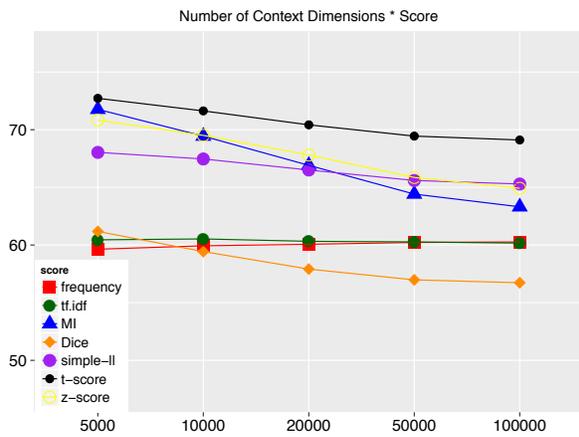


Figure 3.26

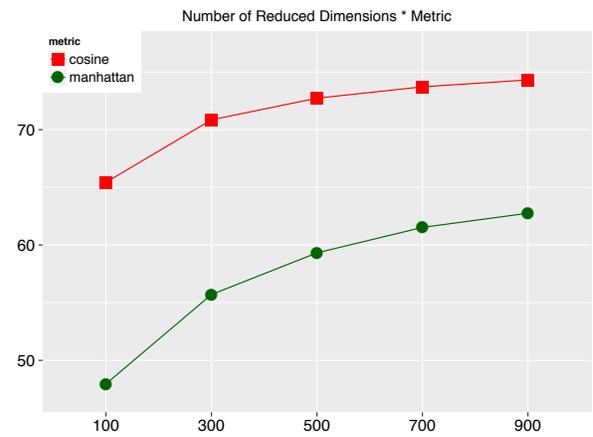


Figure 3.27

## 3.2 WS

### 3.2.1 Main Effects

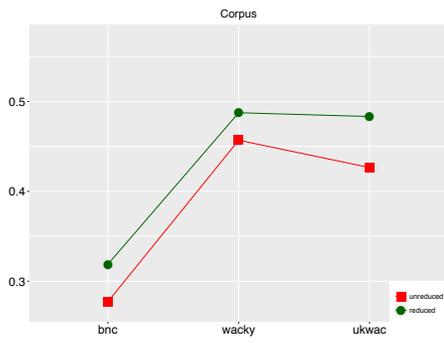


Figure 3.1

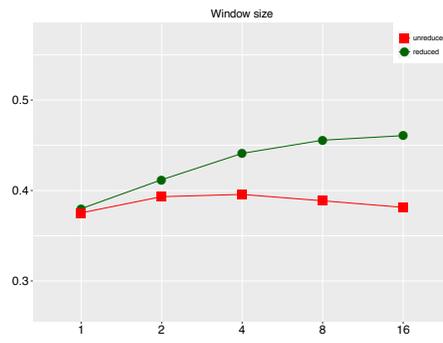


Figure 3.2

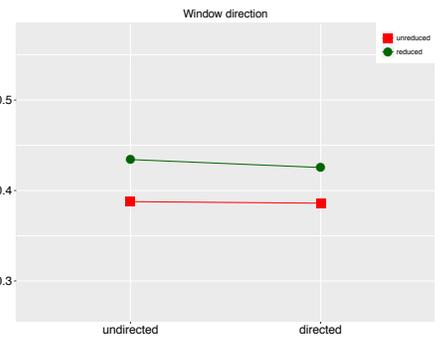


Figure 3.3

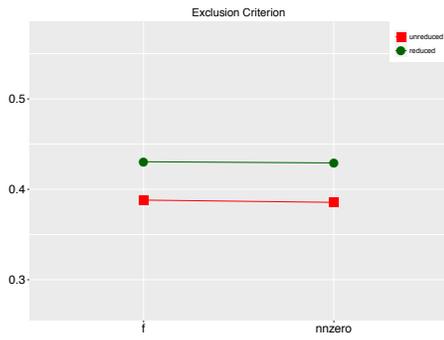


Figure 3.4

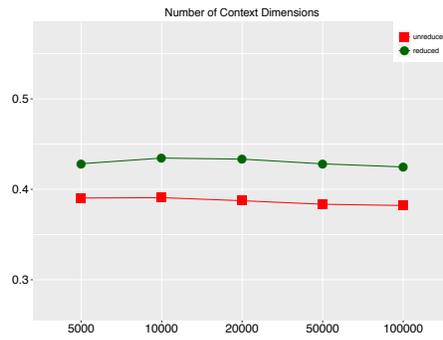


Figure 3.5

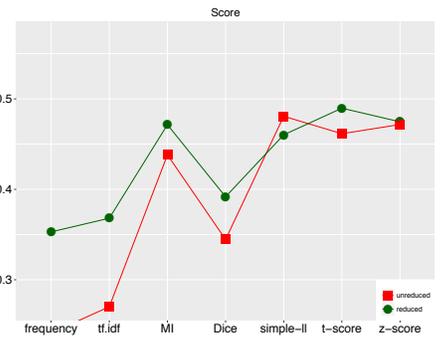


Figure 3.6

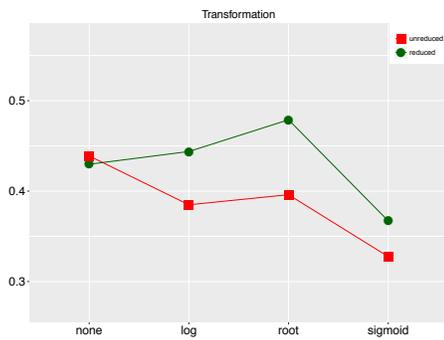


Figure 3.7

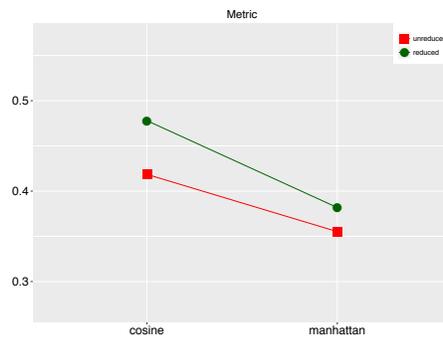


Figure 3.8

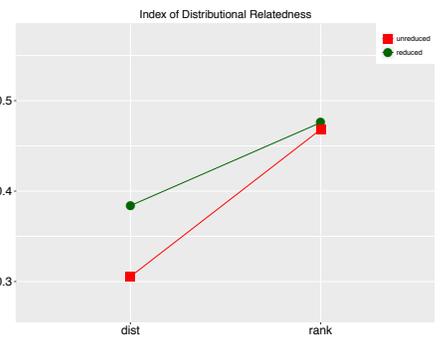


Figure 3.9

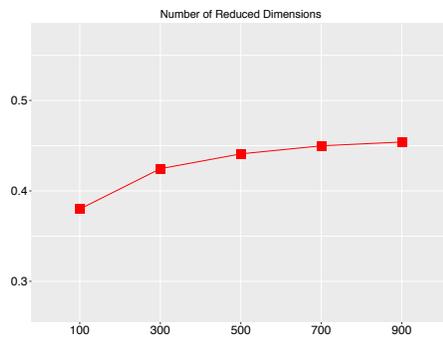


Figure 3.10

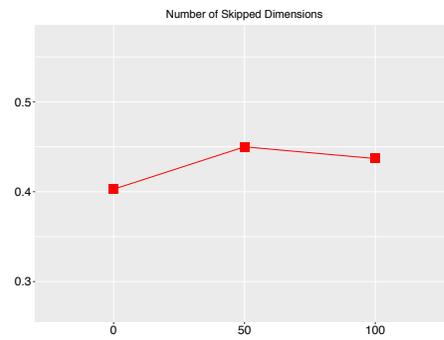


Figure 3.11

### 3.2.2 Interactions: unreduced

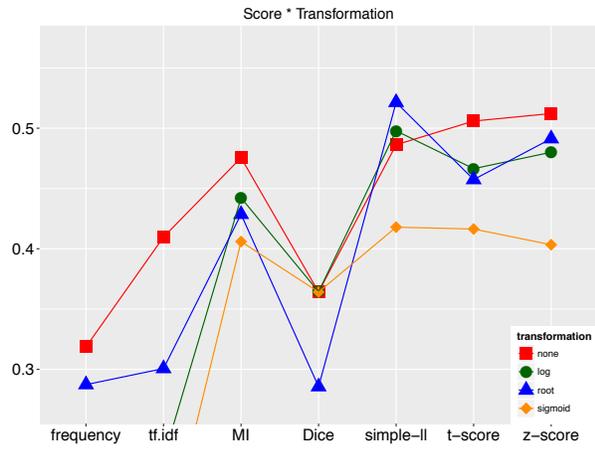


Figure 3.12

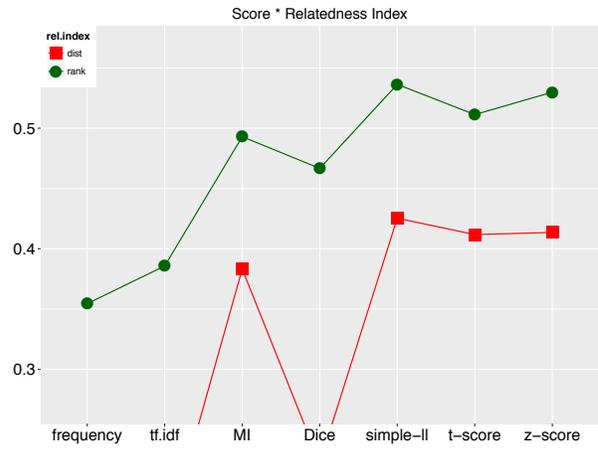


Figure 3.13

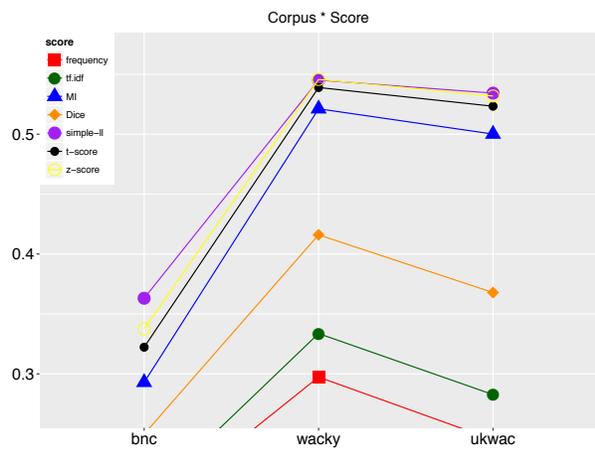


Figure 3.14

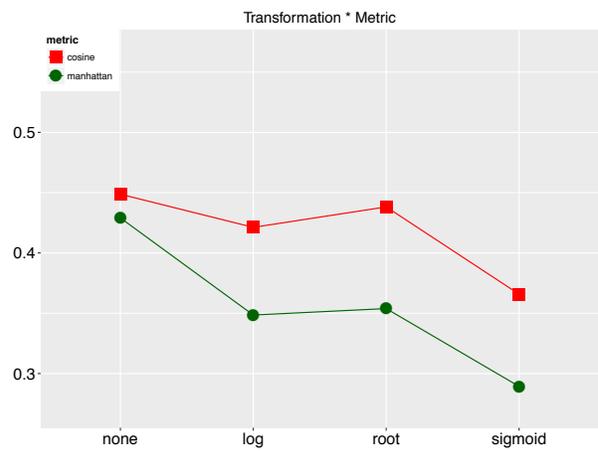


Figure 3.15

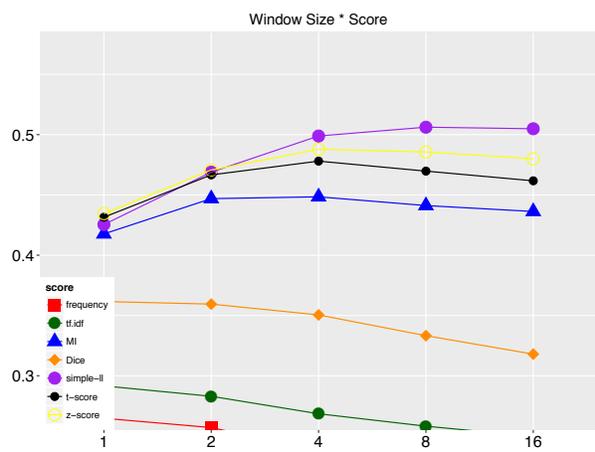


Figure 3.16

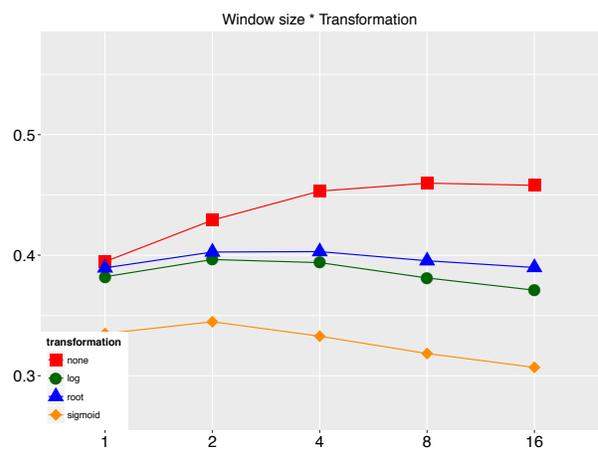


Figure 3.17

### 3.2.3 Interactions: reduced

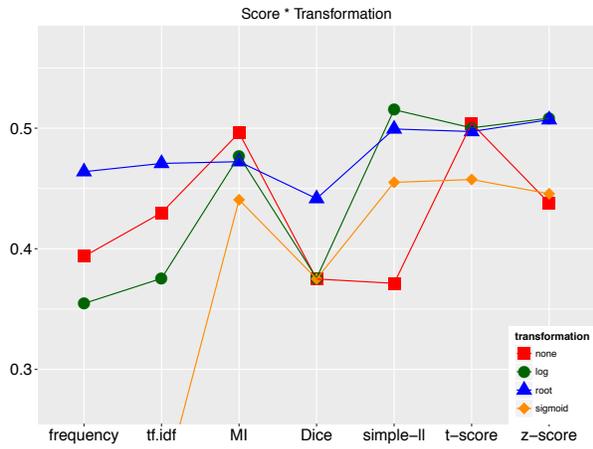


Figure 3.18

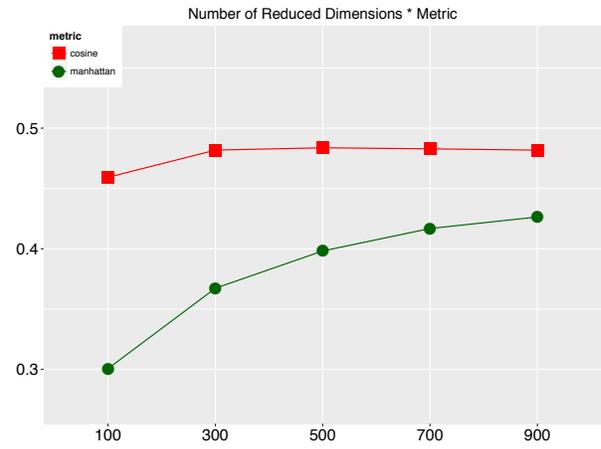


Figure 3.19

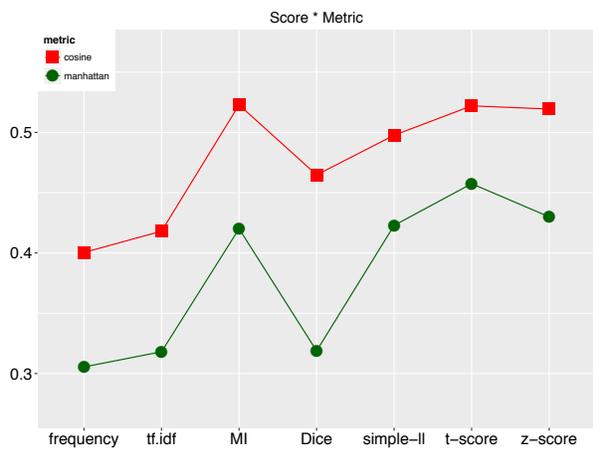


Figure 3.20

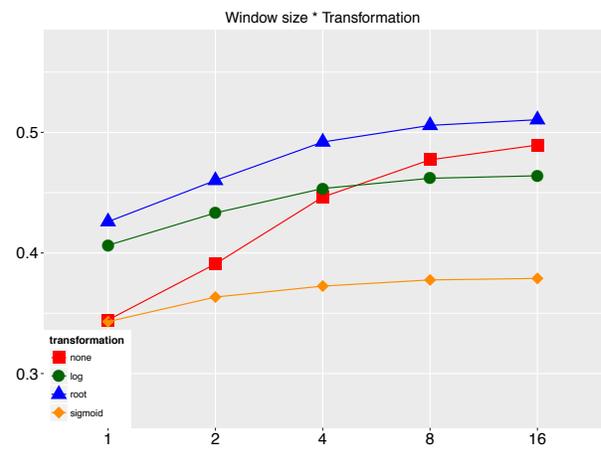


Figure 3.21

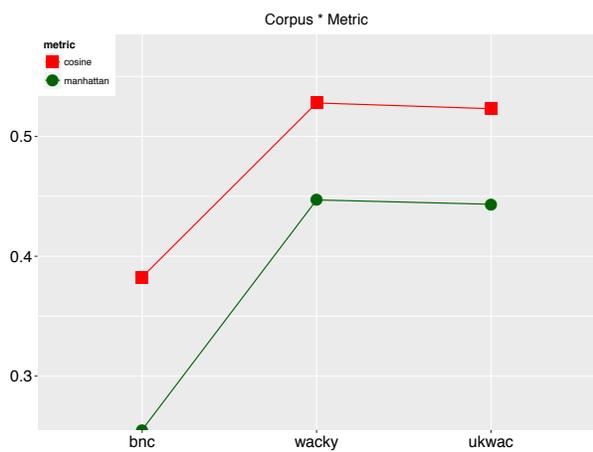


Figure 3.22

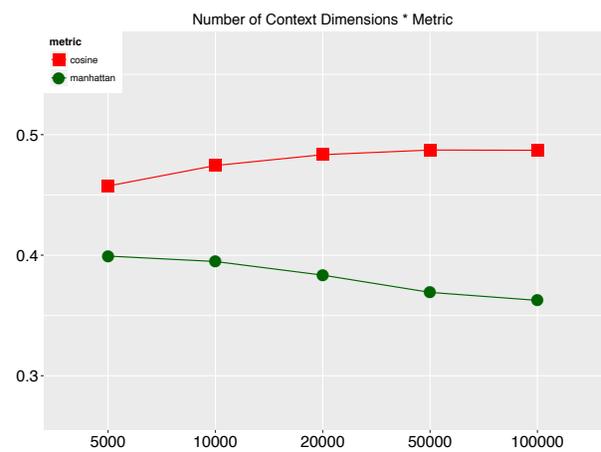


Figure 3.23

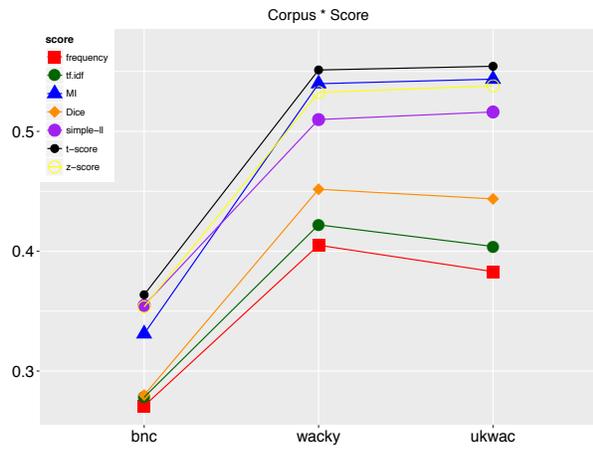


Figure 3.24

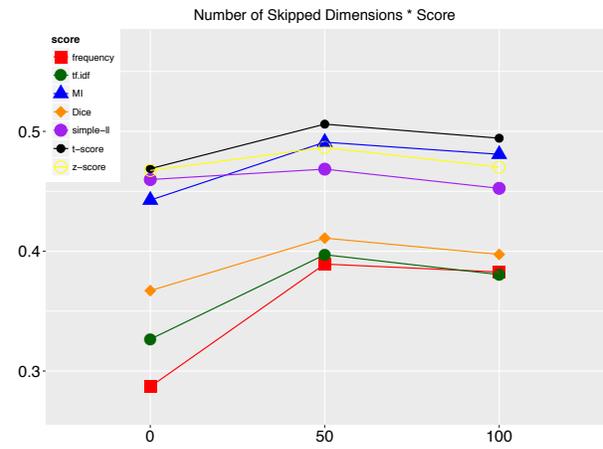


Figure 3.25

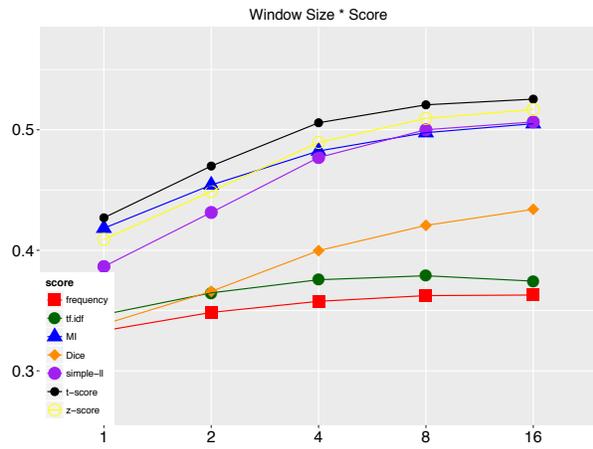


Figure 3.26

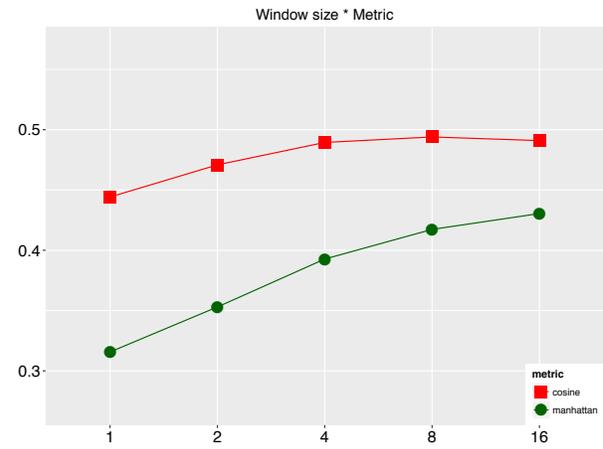


Figure 3.27

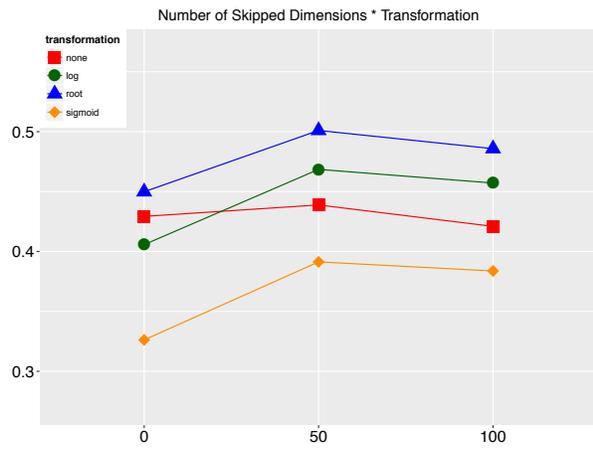


Figure 3.28

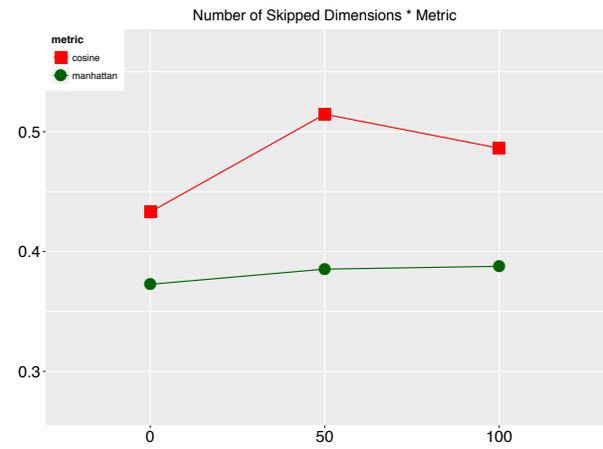


Figure 3.29

### 3.3 RG

#### 3.3.1 Main Effects

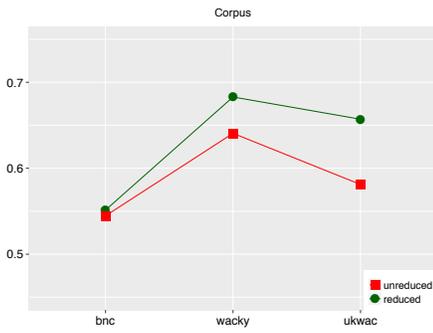


Figure 3.1

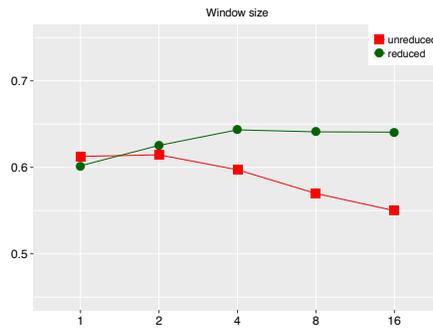


Figure 3.2

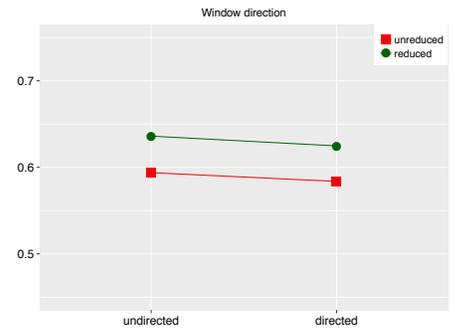


Figure 3.3

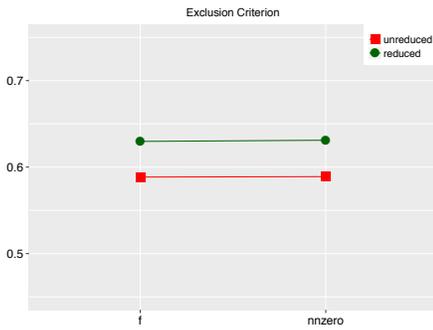


Figure 3.4

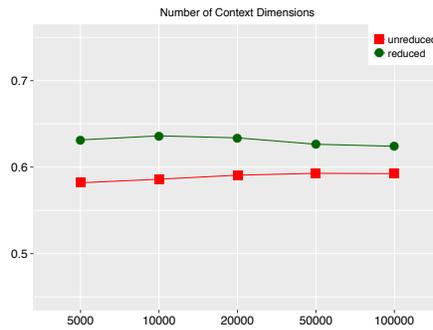


Figure 3.5

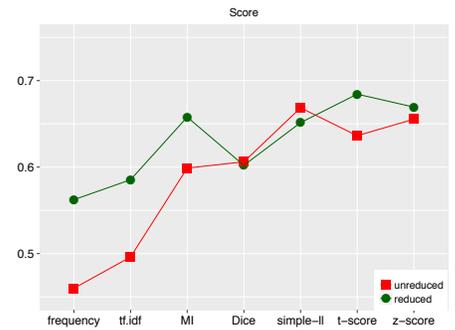


Figure 3.6

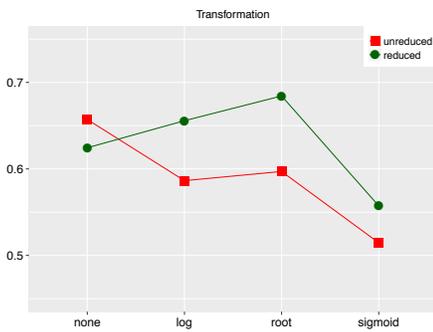


Figure 3.7

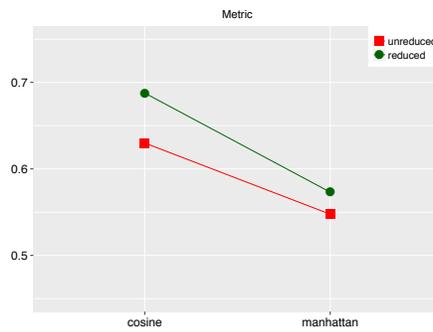


Figure 3.8

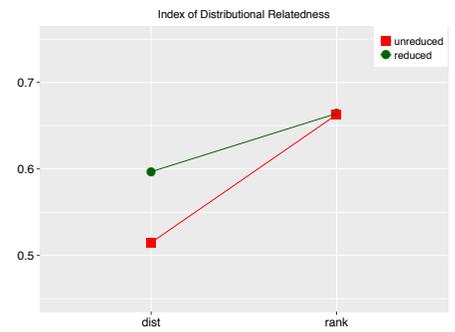


Figure 3.9

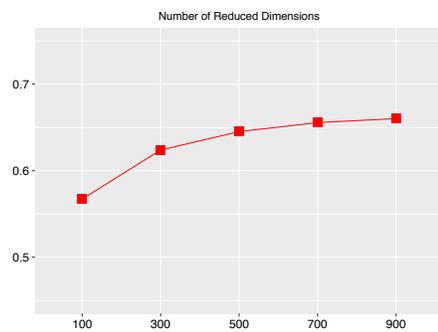


Figure 3.10

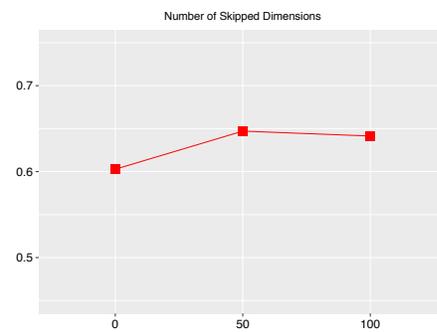


Figure 3.11

### 3.3.2 Interactions: unreduced

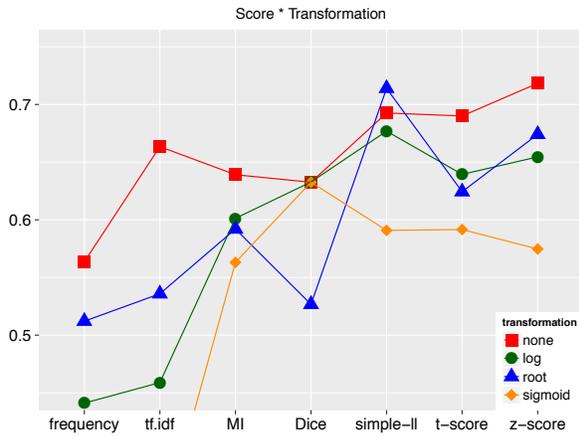


Figure 3.12

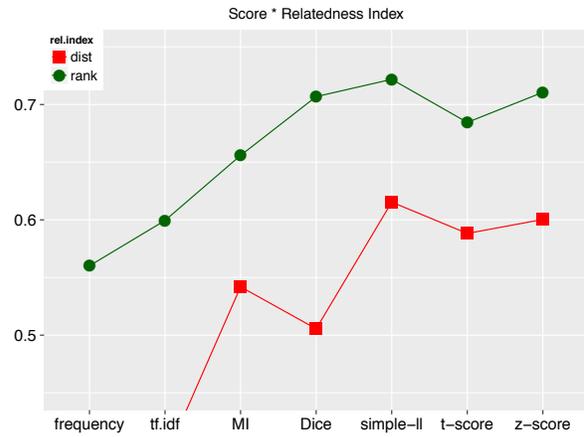


Figure 3.13

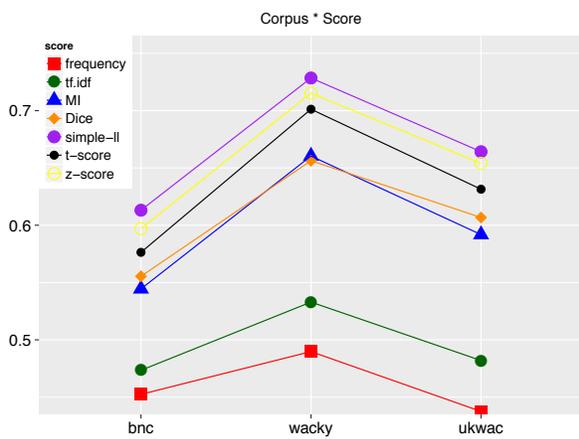


Figure 3.14

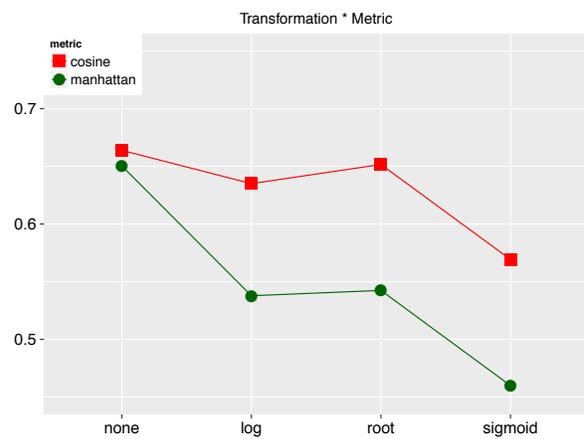


Figure 3.15

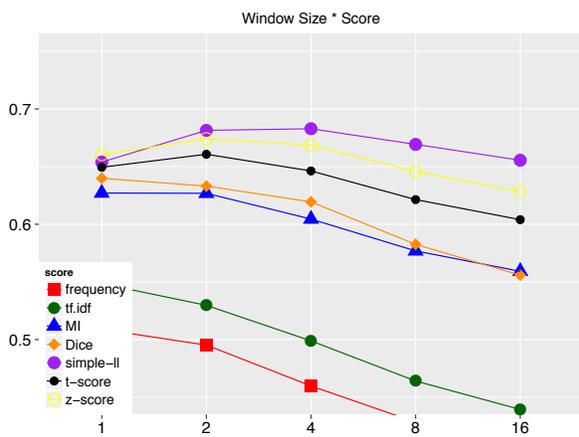


Figure 3.16

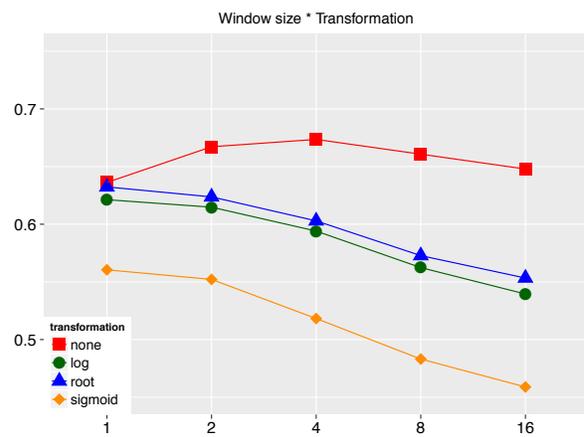


Figure 3.17

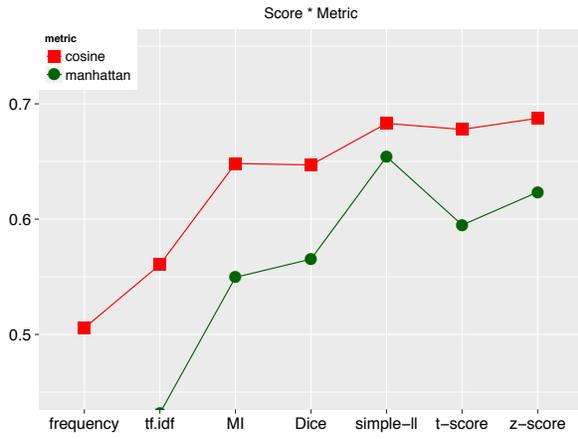


Figure 3.18

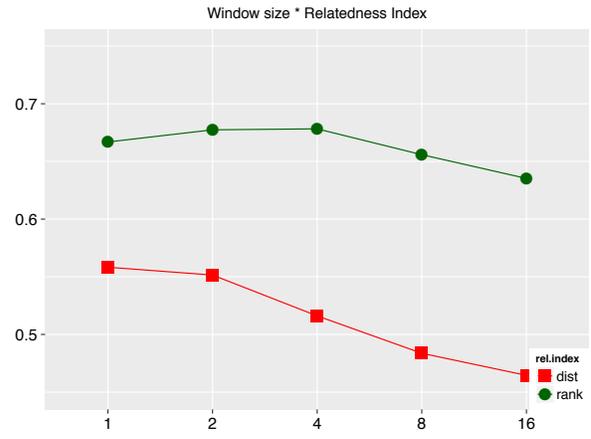


Figure 3.19

### 3.3.3 Interactions: reduced



Figure 3.20

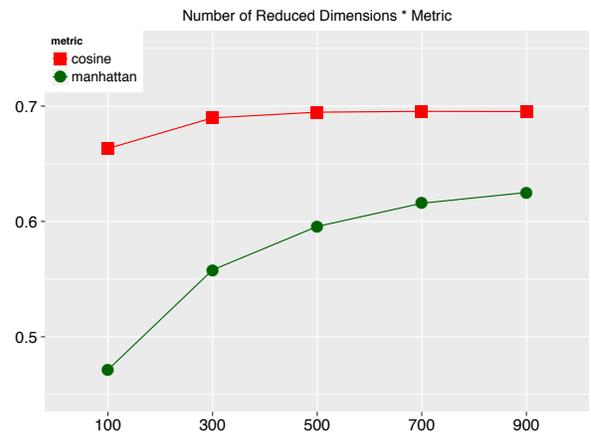


Figure 3.21

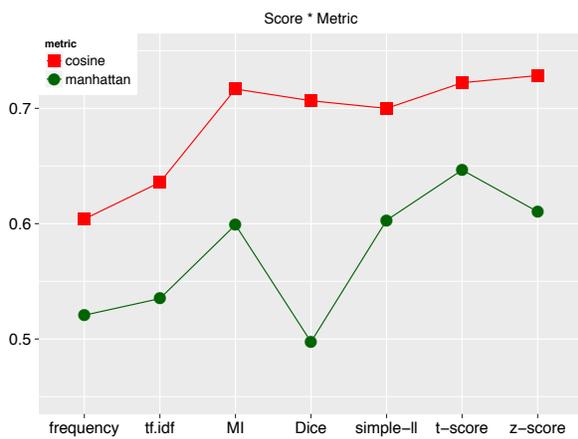


Figure 3.22

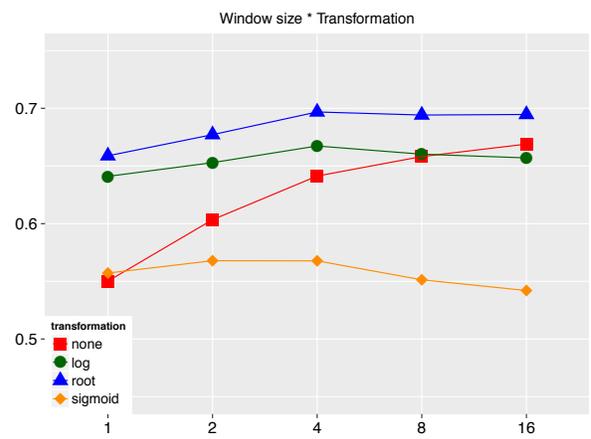


Figure 3.23

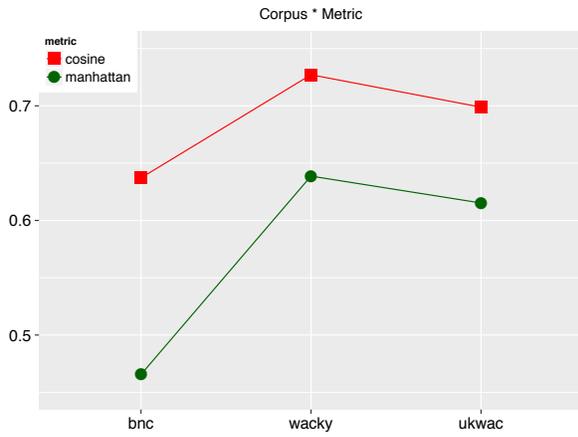


Figure 3.24

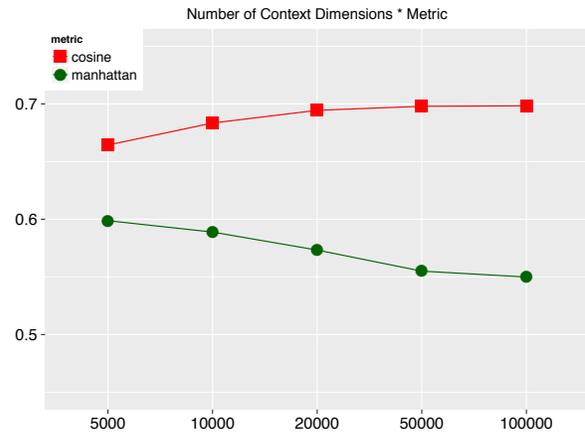


Figure 3.25

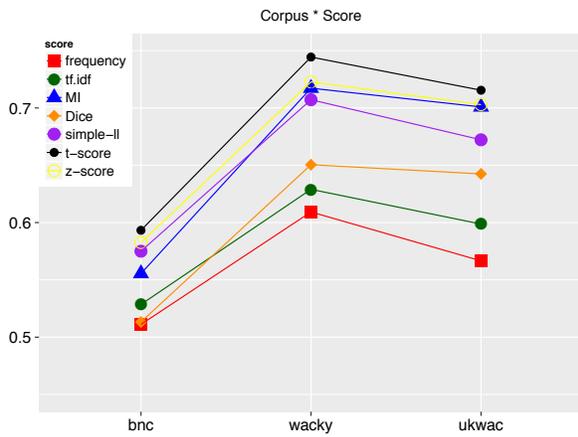


Figure 3.26

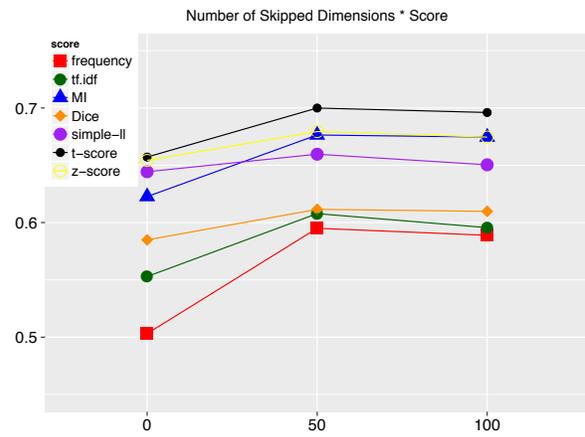


Figure 3.27

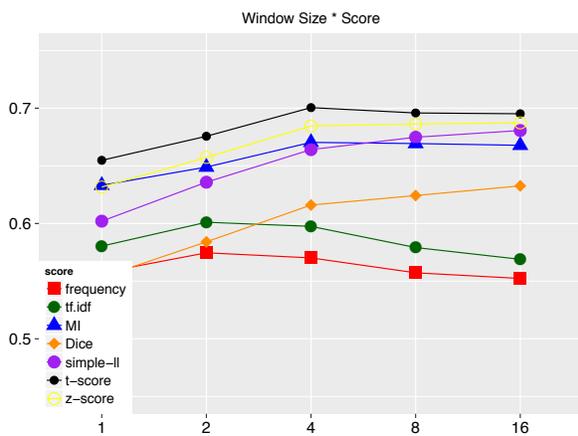


Figure 3.28

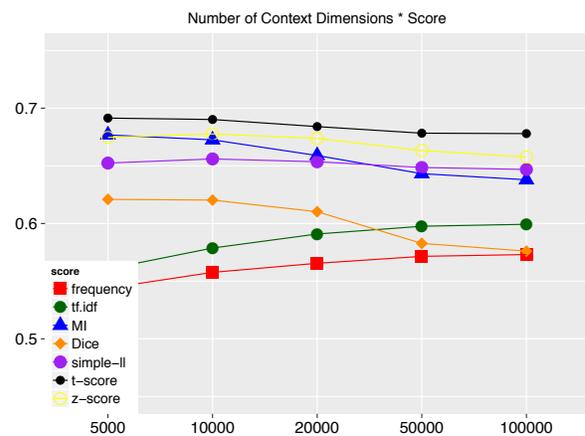


Figure 3.29

### 3.4 AP

#### 3.4.1 Main Effects

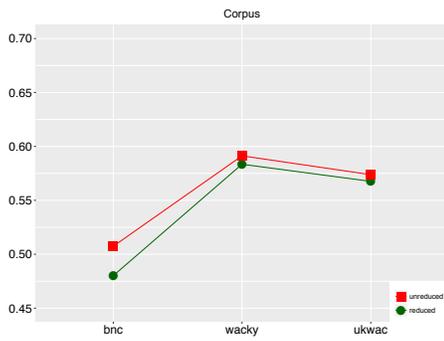


Figure 3.1

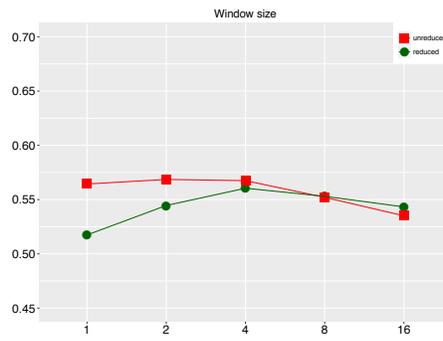


Figure 3.2

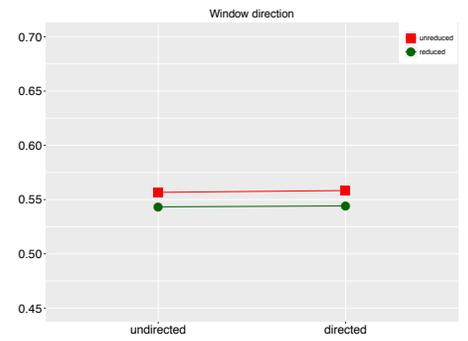


Figure 3.3

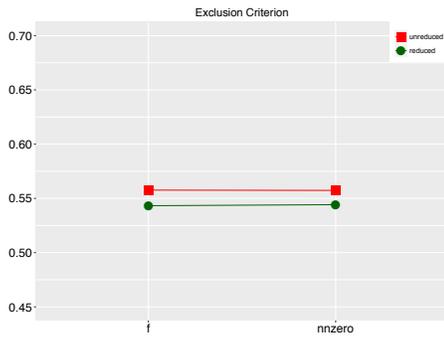


Figure 3.4

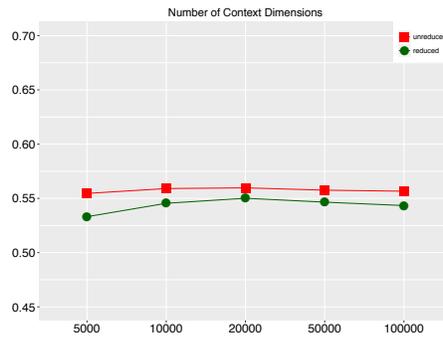


Figure 3.5

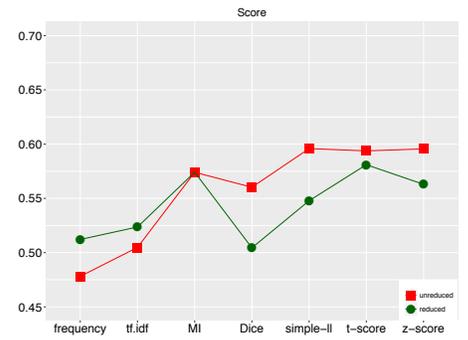


Figure 3.6

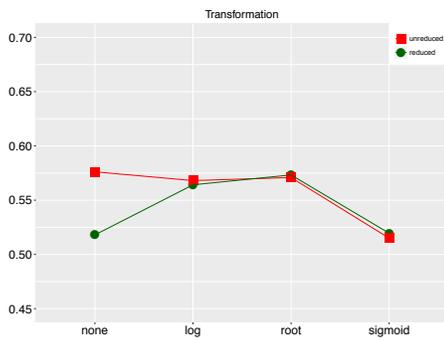


Figure 3.7

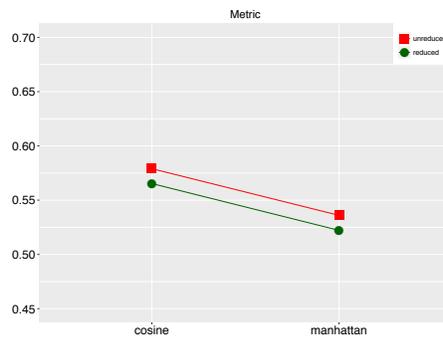


Figure 3.8

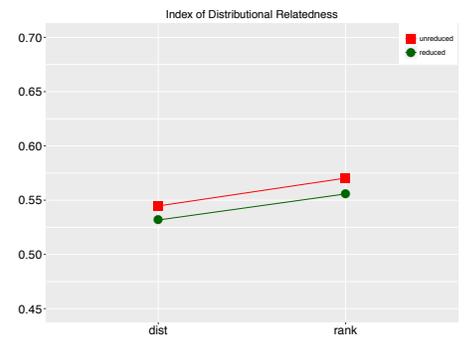


Figure 3.9

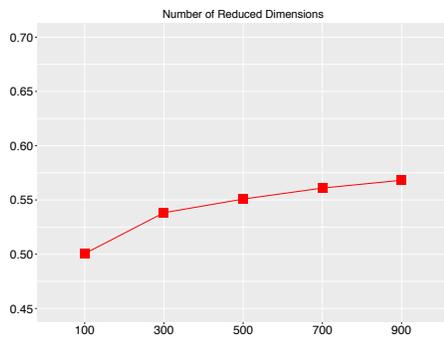


Figure 3.10

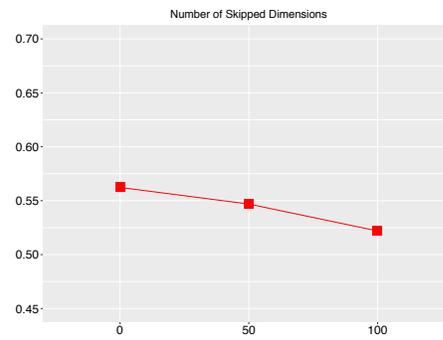


Figure 3.11

### 3.4.2 Interactions: unreduced

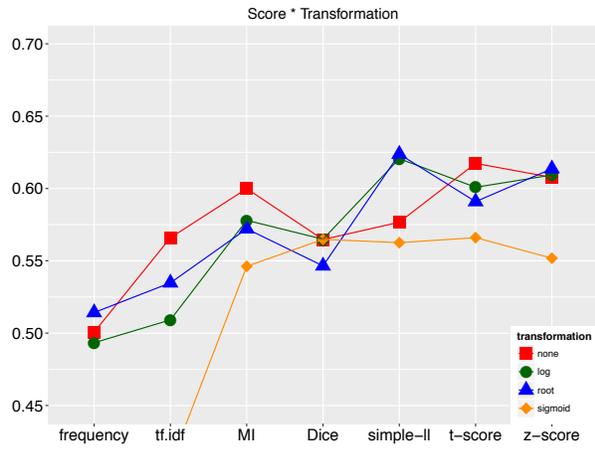


Figure 3.12

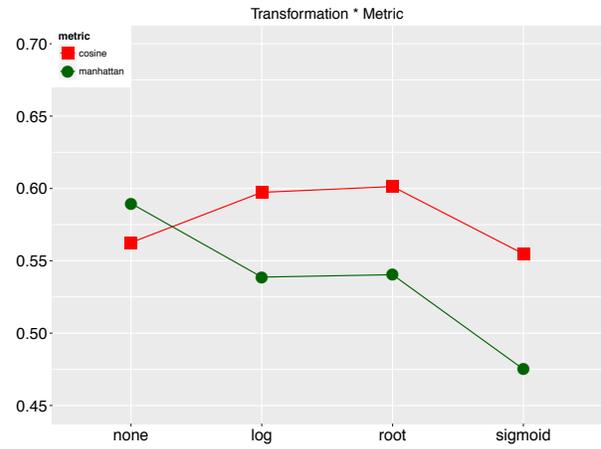


Figure 3.13

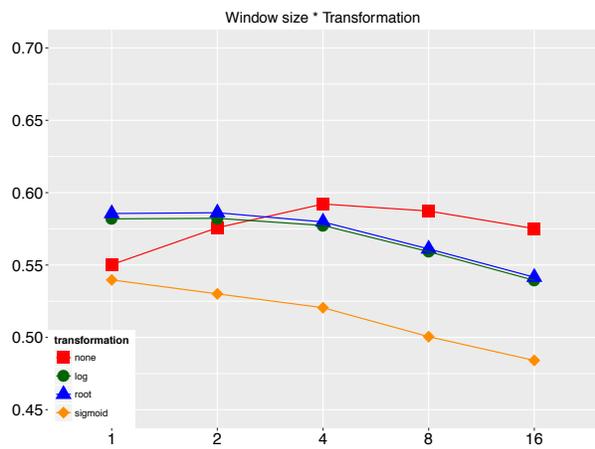


Figure 3.14

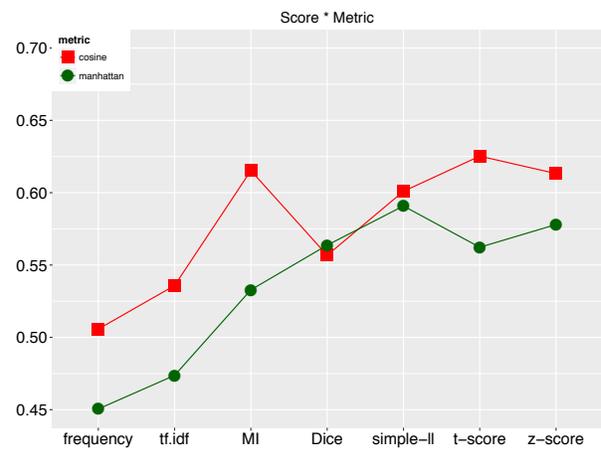


Figure 3.15

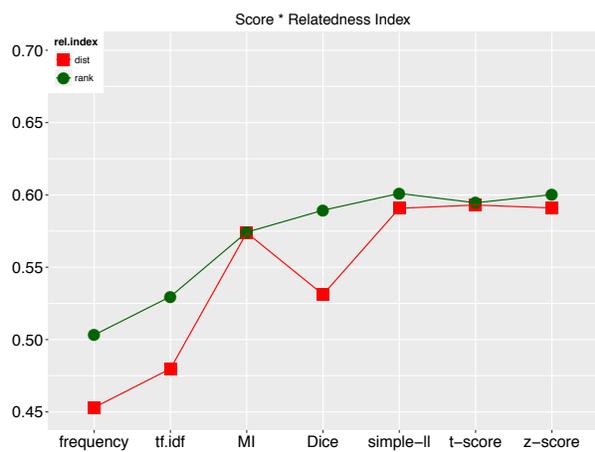


Figure 3.16

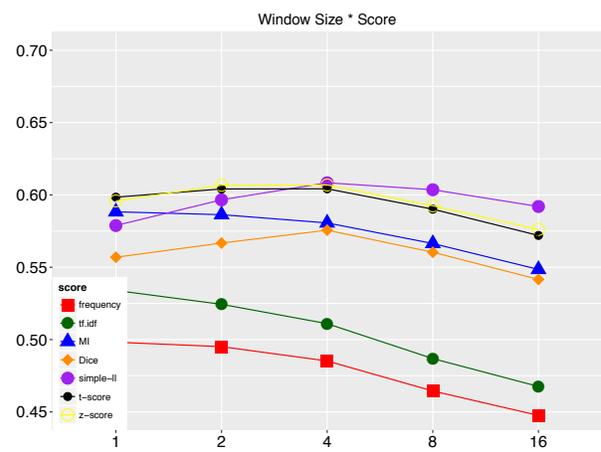


Figure 3.17

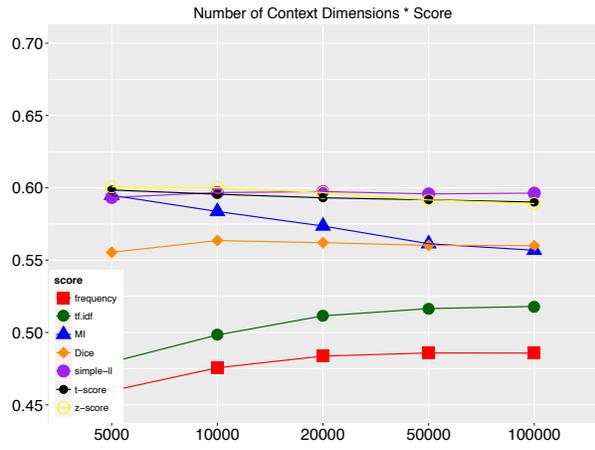


Figure 3.18

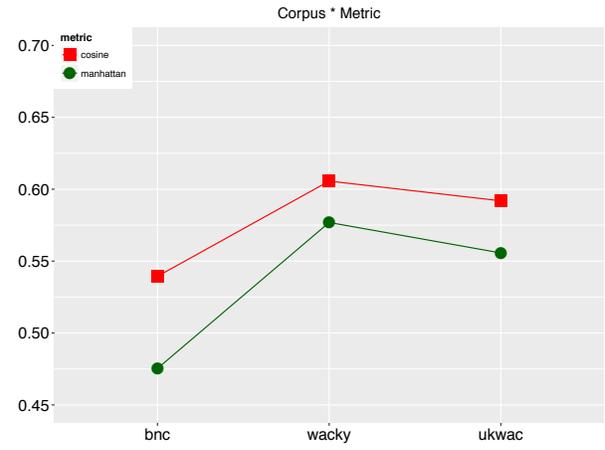


Figure 3.19

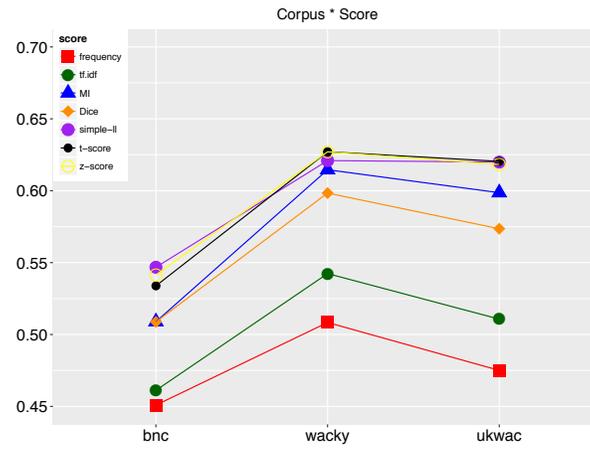


Figure 3.20

### 3.4.3 Interactions: reduced

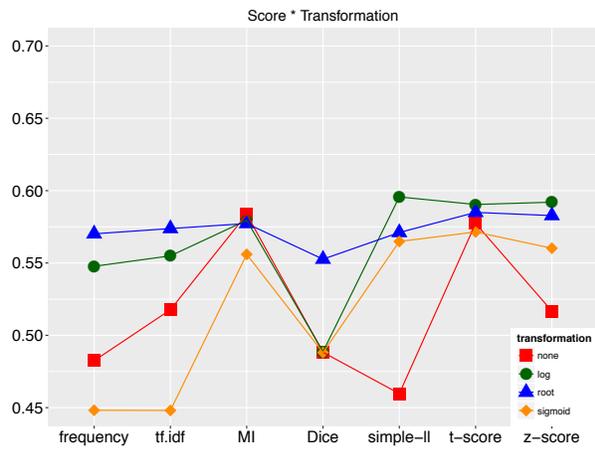


Figure 3.21

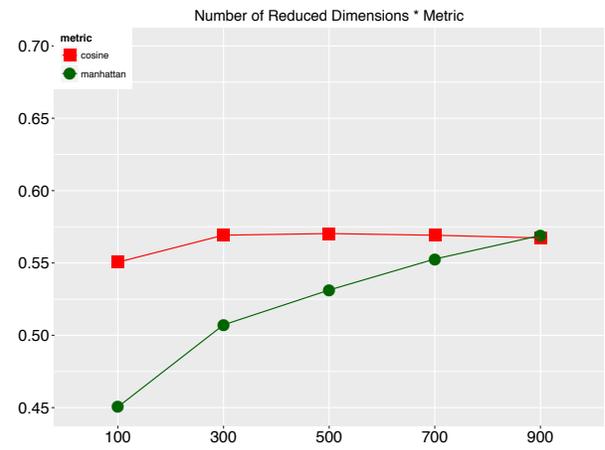


Figure 3.22

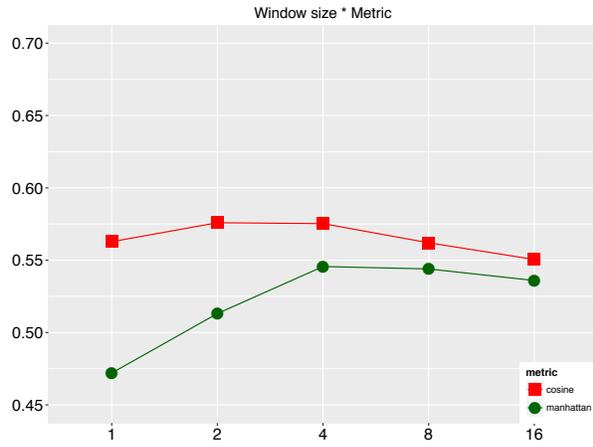


Figure 3.23

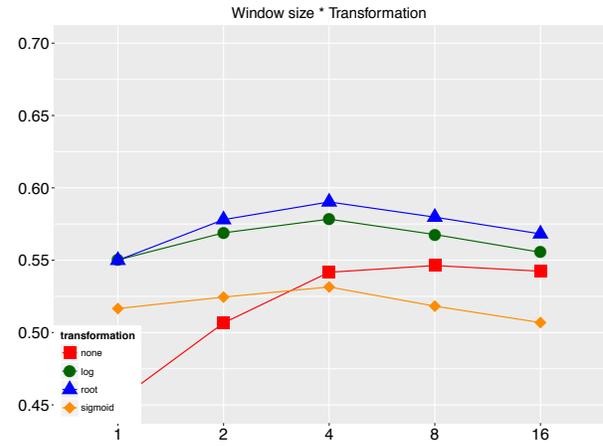


Figure 3.24

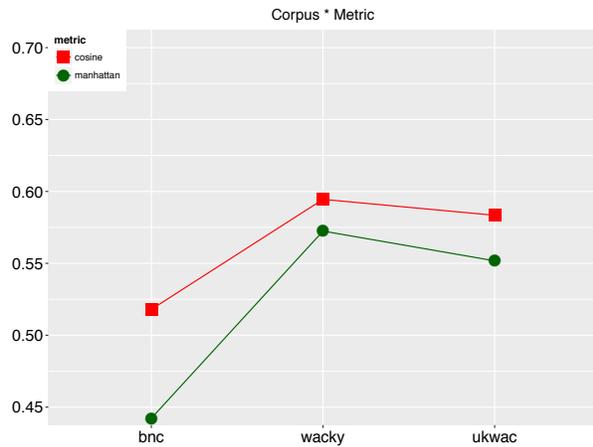


Figure 3.25

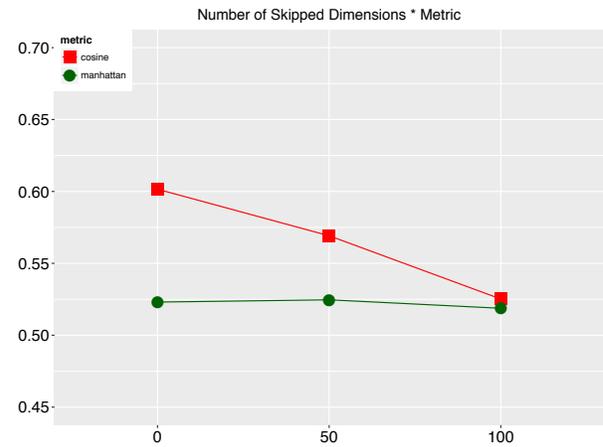


Figure 3.26

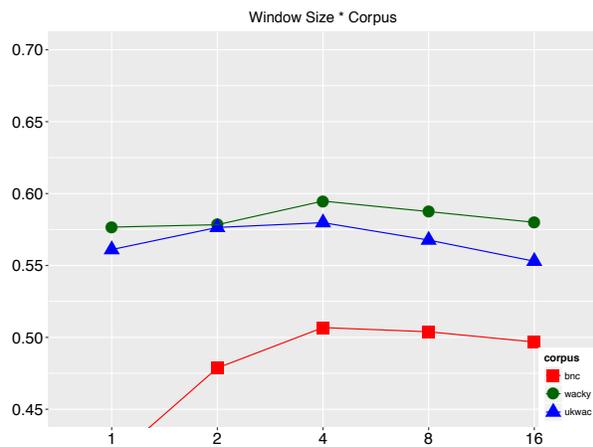


Figure 3.27

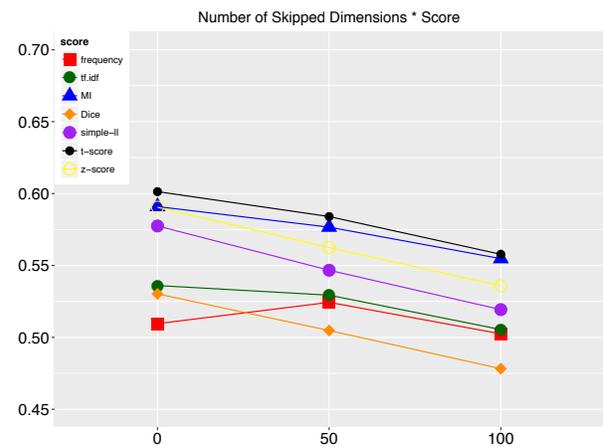


Figure 3.28

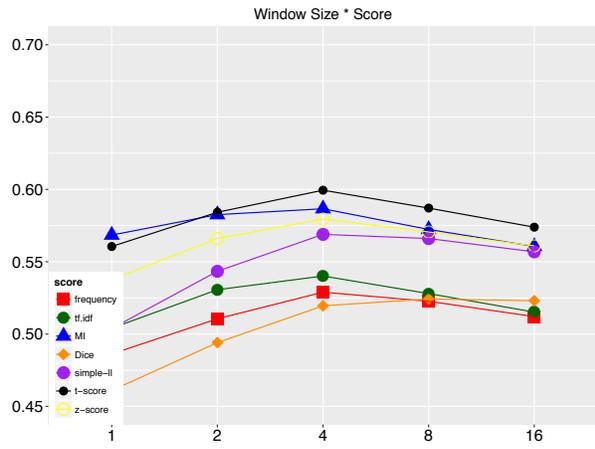


Figure 3.29

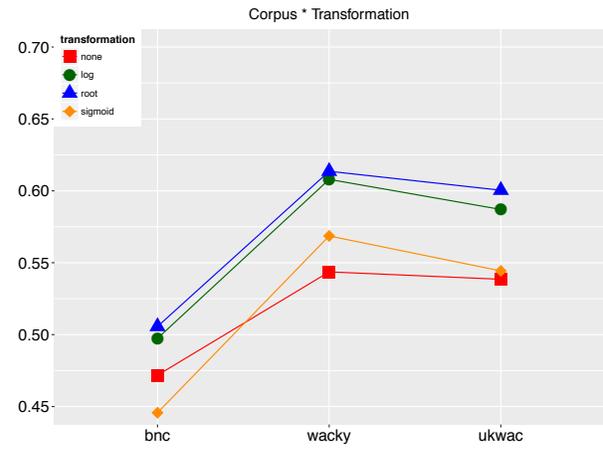


Figure 3.30

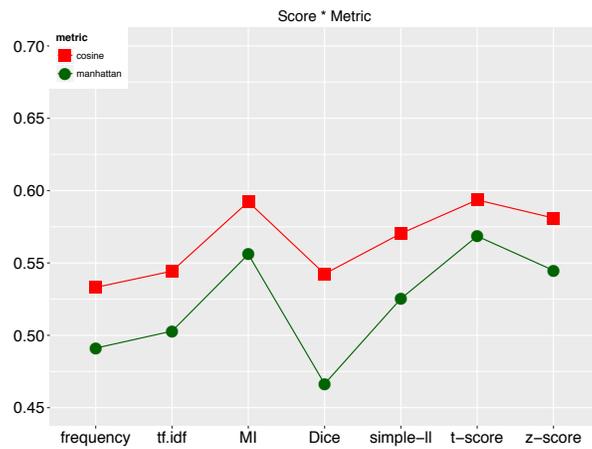


Figure 3.31

## 3.5 BATTIG

### 3.5.1 Main Effects

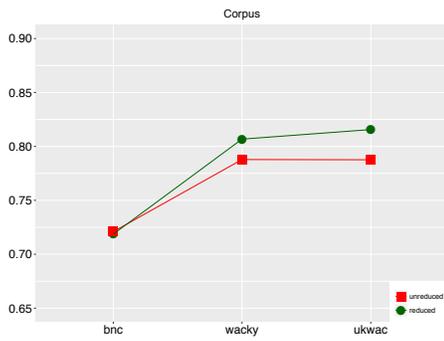


Figure 3.1

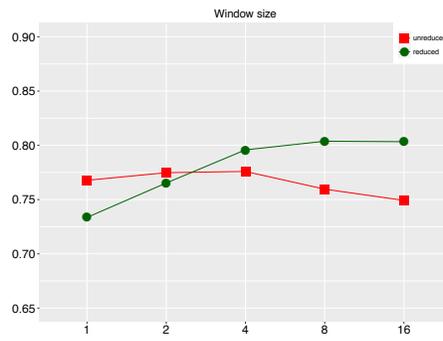


Figure 3.2

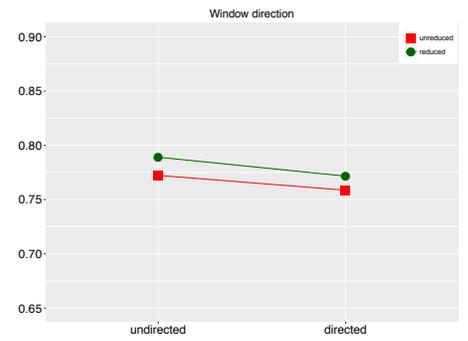


Figure 3.3

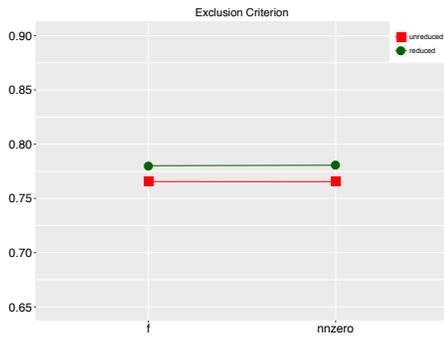


Figure 3.4

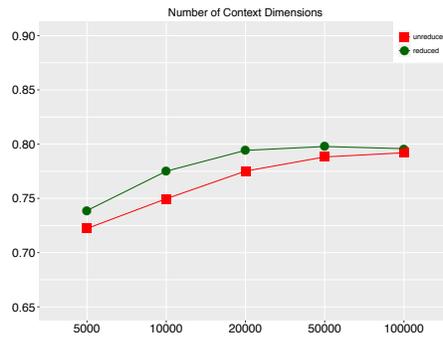


Figure 3.5

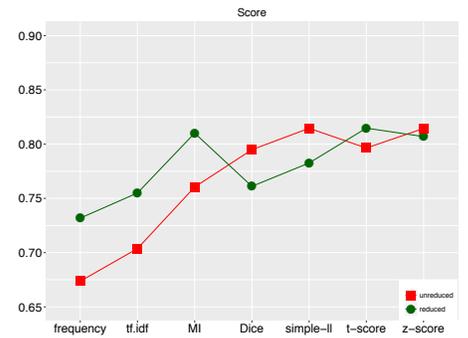


Figure 3.6

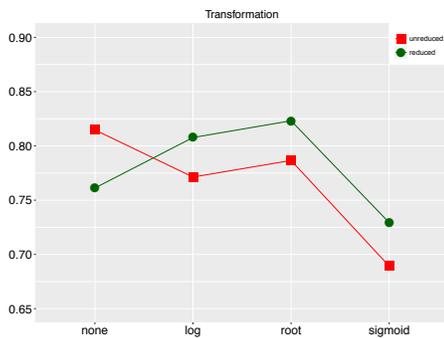


Figure 3.7

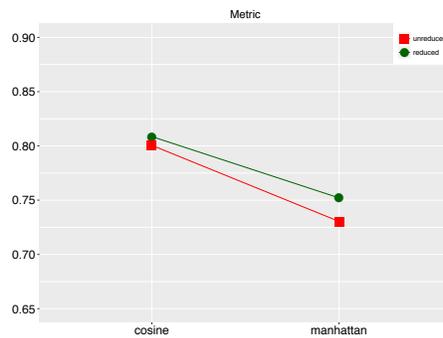


Figure 3.8

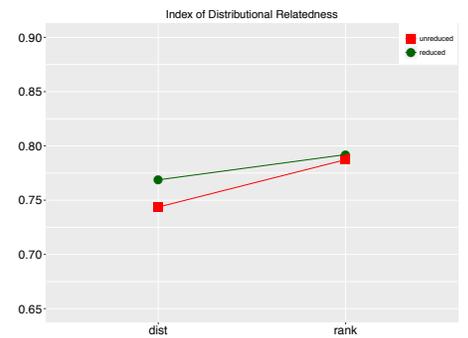


Figure 3.9

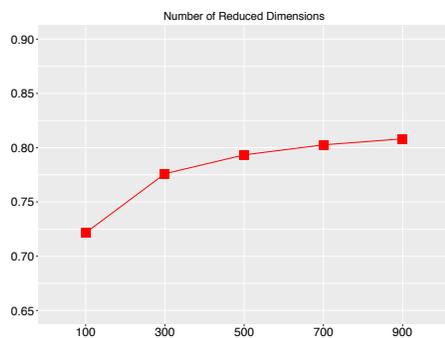


Figure 3.10

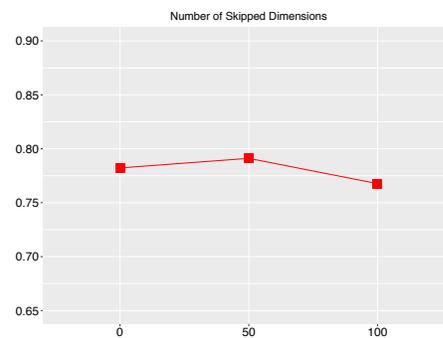


Figure 3.11

### 3.5.2 Interactions: unreduced

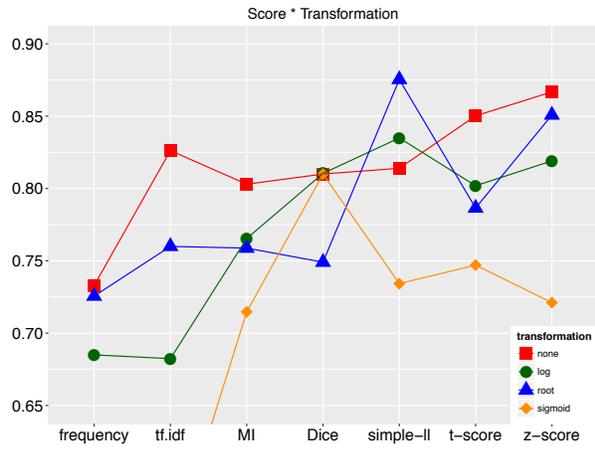


Figure 3.12

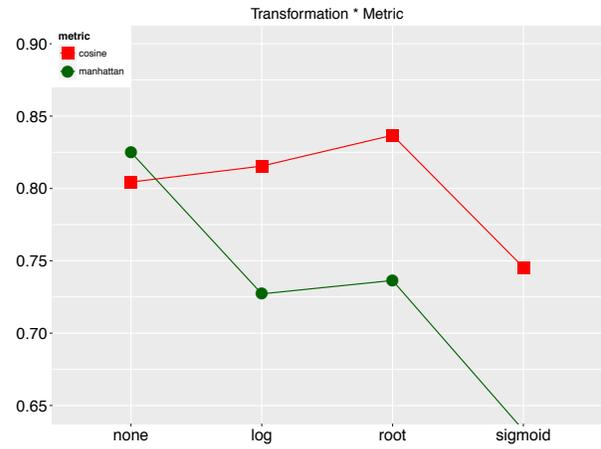


Figure 3.13

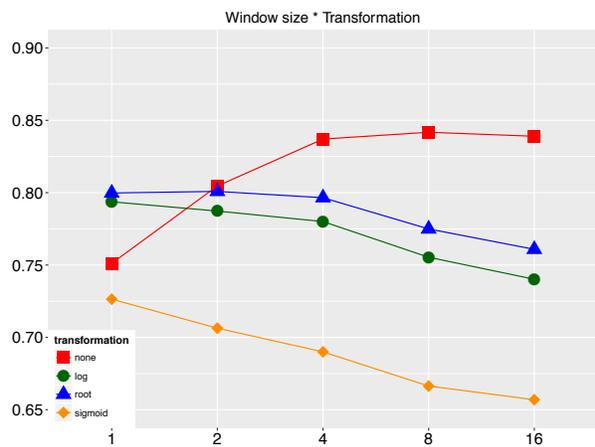


Figure 3.14

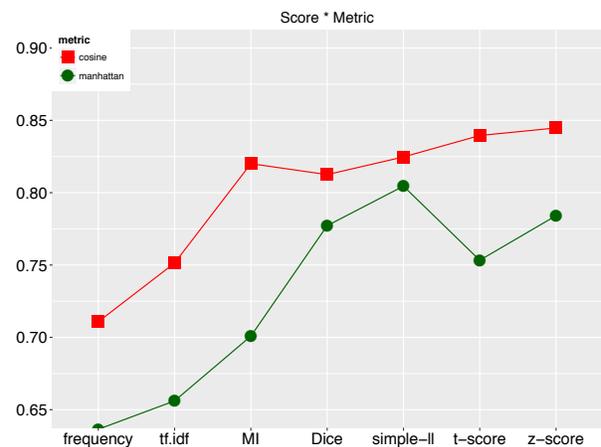


Figure 3.15

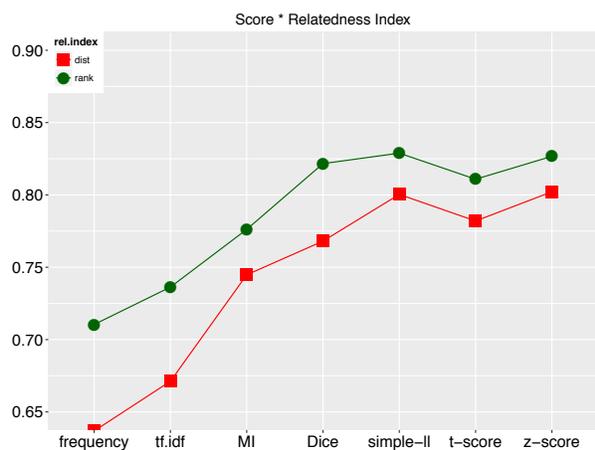


Figure 3.16

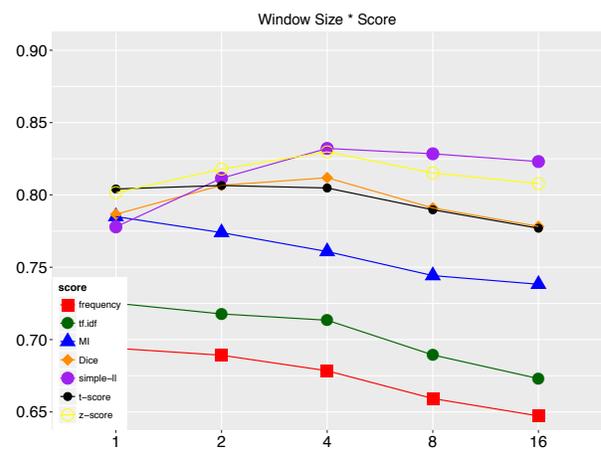


Figure 3.17

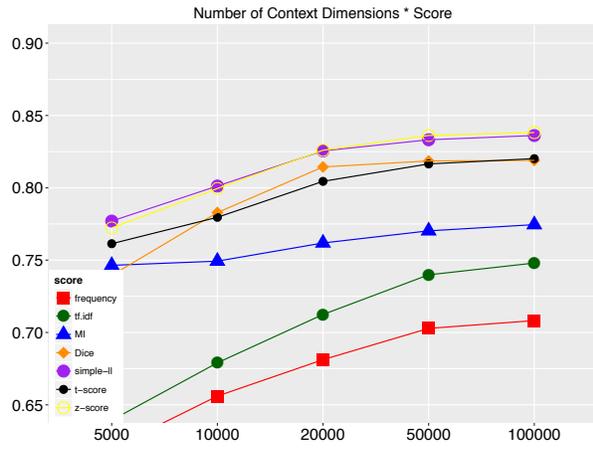


Figure 3.18

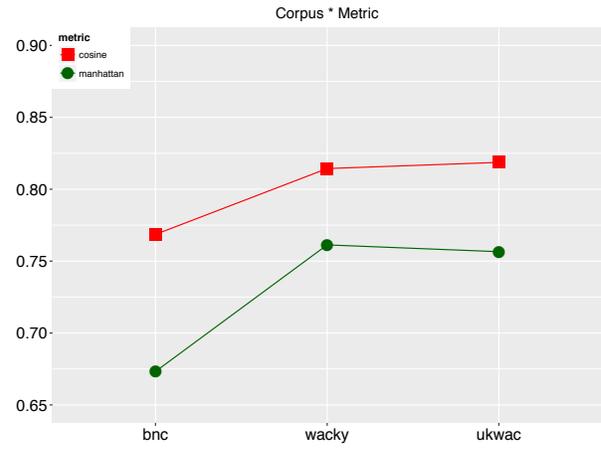


Figure 3.19

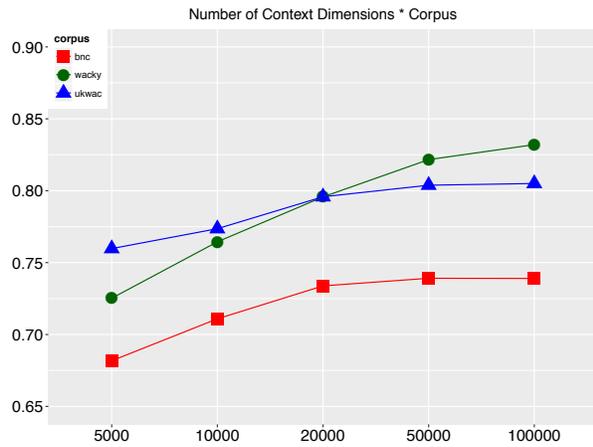


Figure 3.20

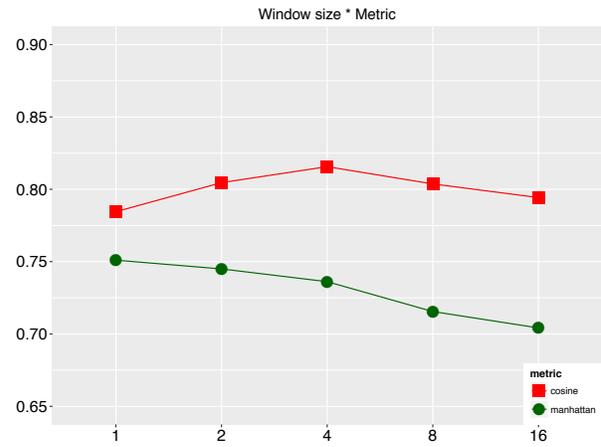


Figure 3.21

### 3.5.3 Interactions: reduced

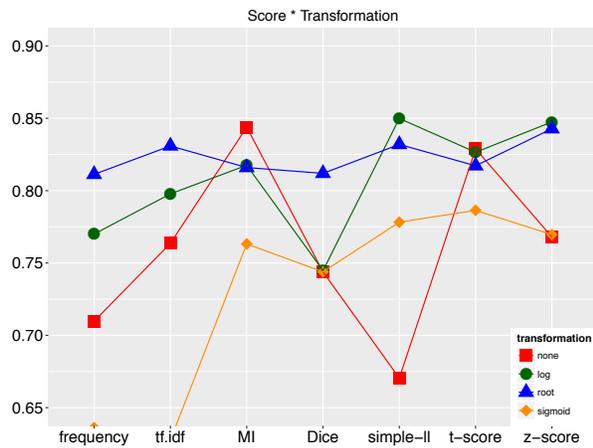


Figure 3.22

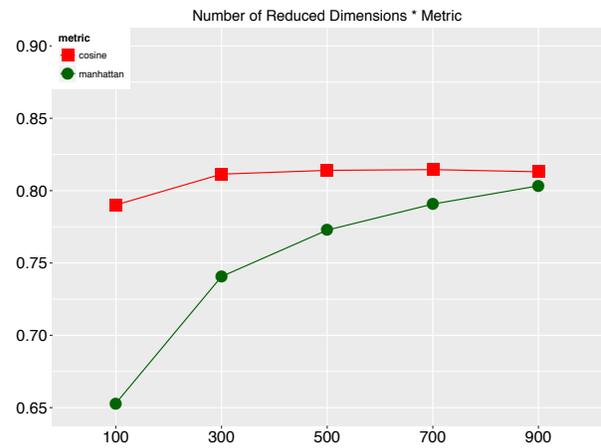


Figure 3.23

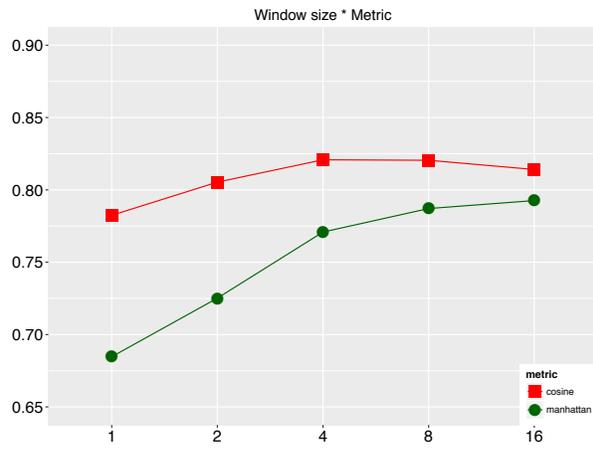


Figure 3.24

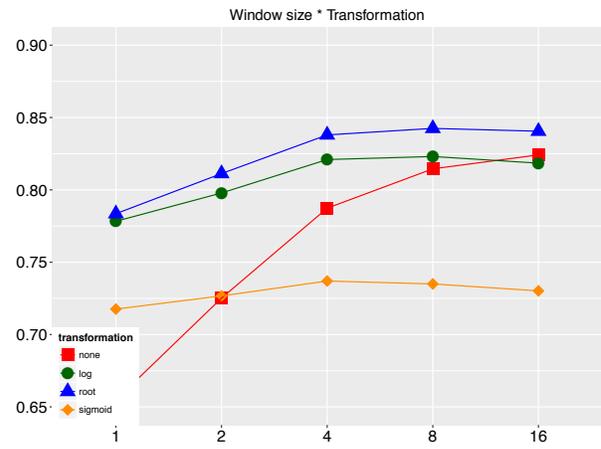


Figure 3.25

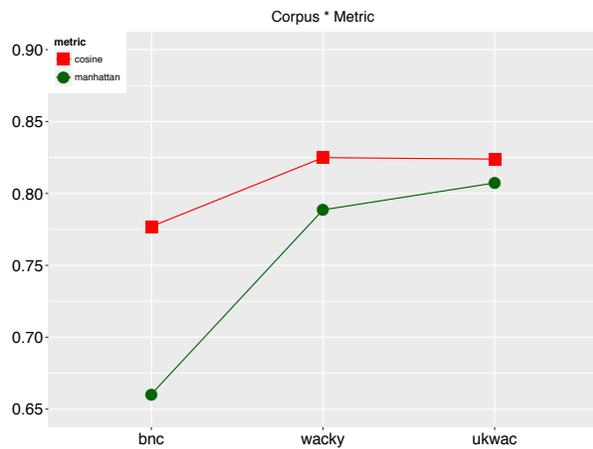


Figure 3.26

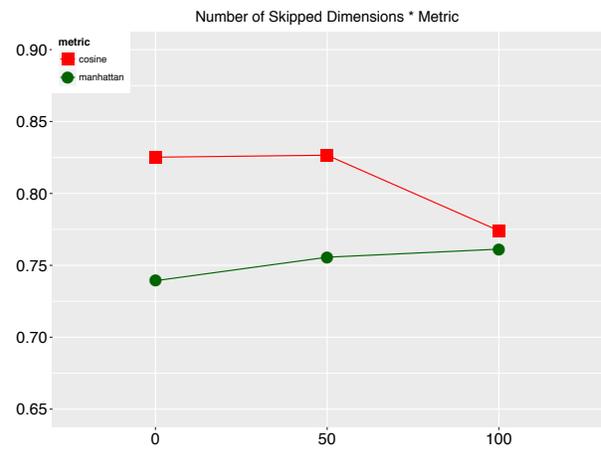


Figure 3.27

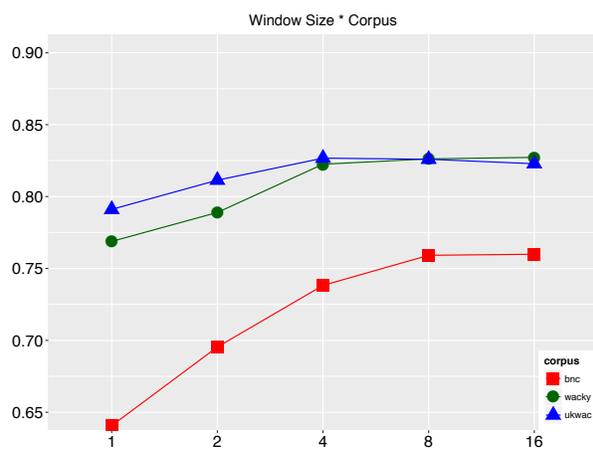


Figure 3.28

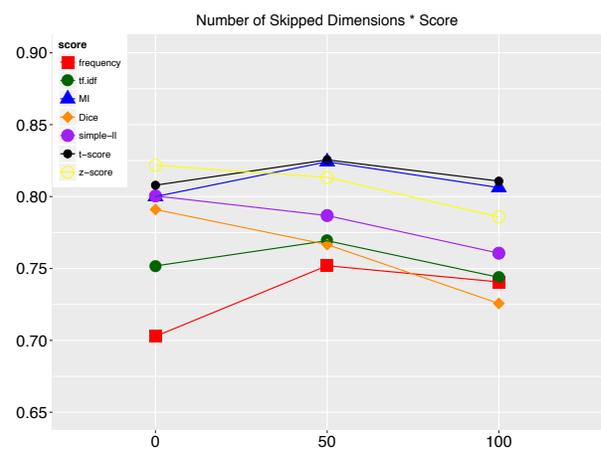


Figure 3.29

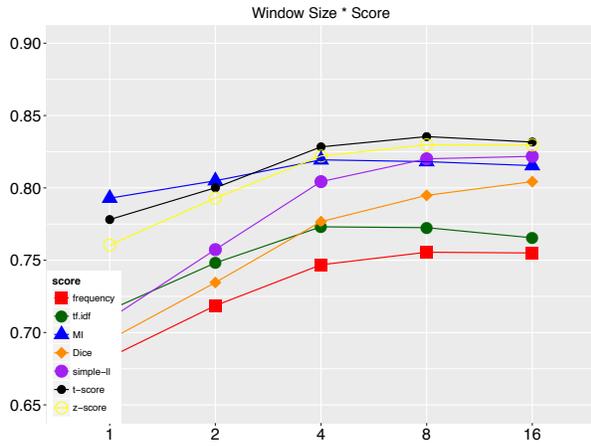


Figure 3.30

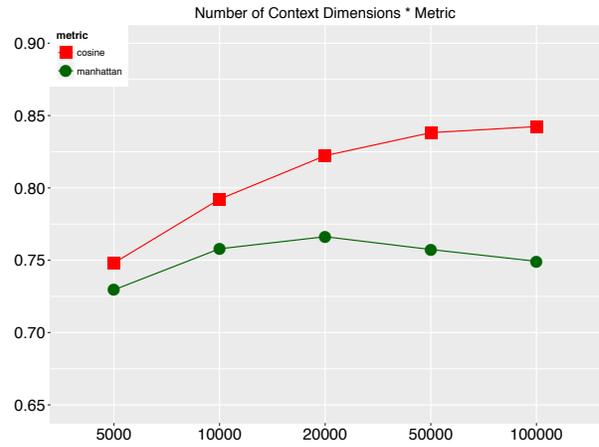


Figure 3.31

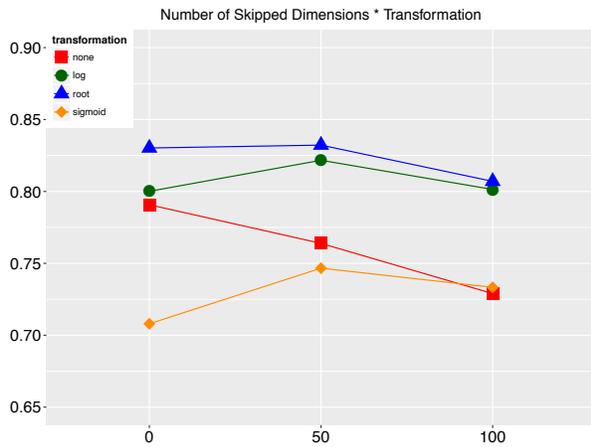


Figure 3.32

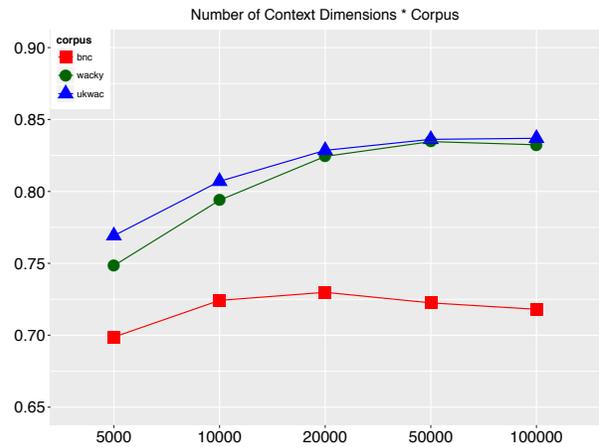


Figure 3.33

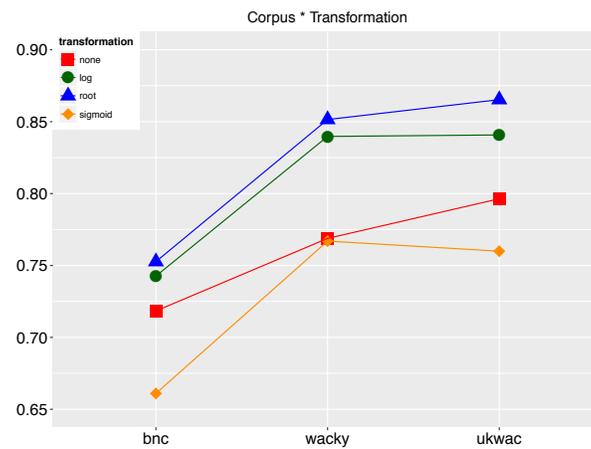


Figure 3.34

## 3.6 MITCHELL

### 3.6.1 Main Effects

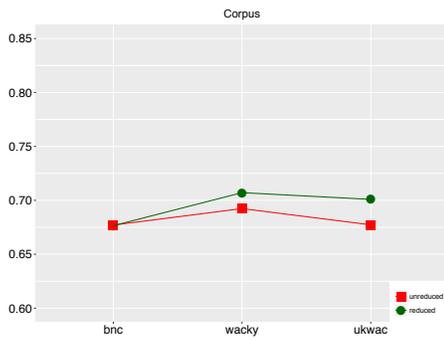


Figure 3.1

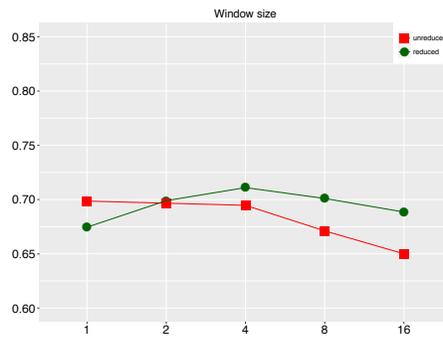


Figure 3.2

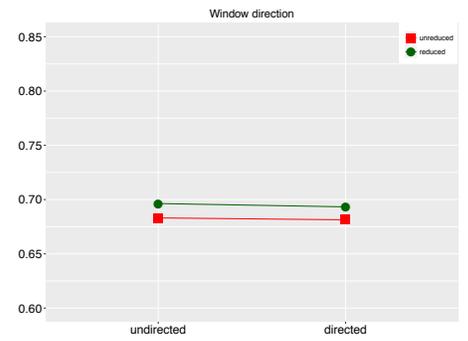


Figure 3.3

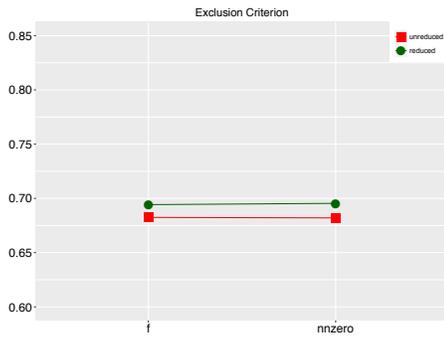


Figure 3.4

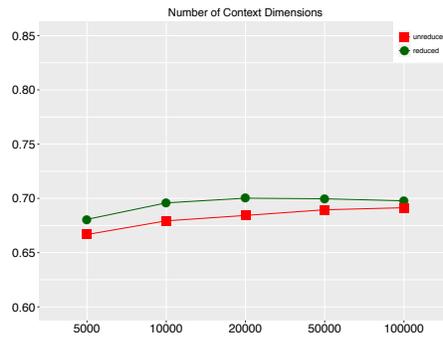


Figure 3.5

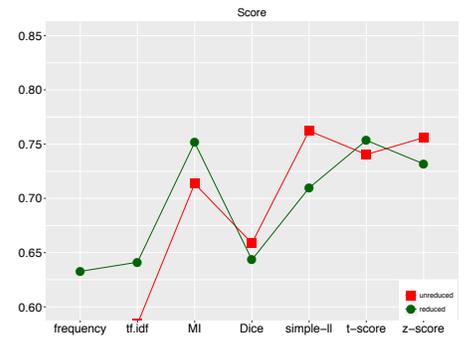


Figure 3.6

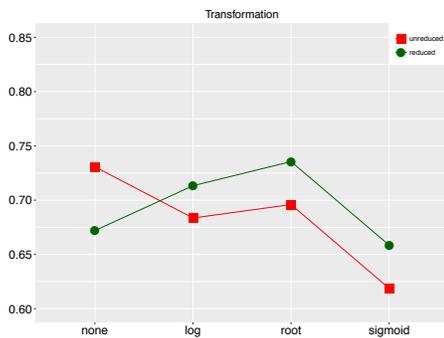


Figure 3.7

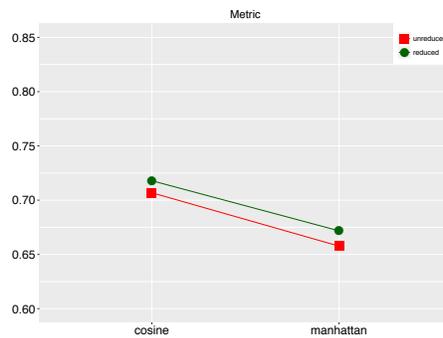


Figure 3.8

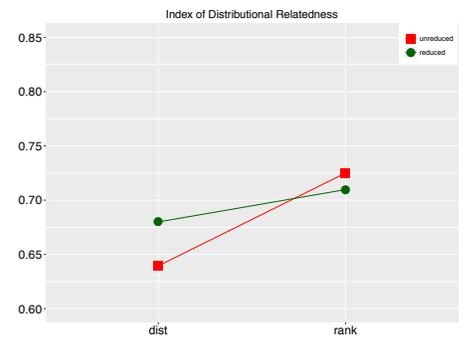


Figure 3.9

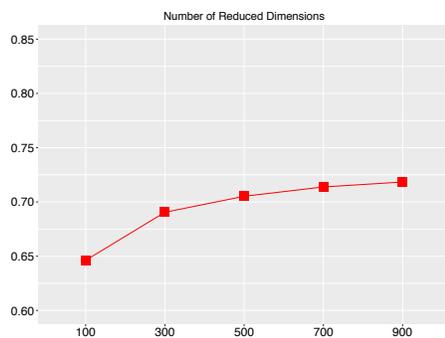


Figure 3.10

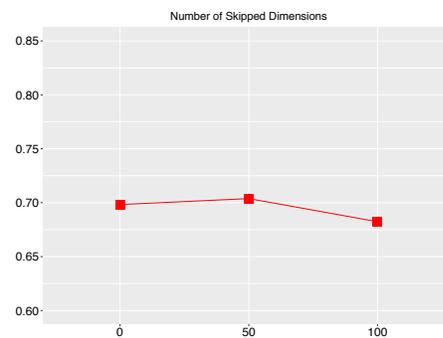


Figure 3.11

### 3.6.2 Interactions: unreduced

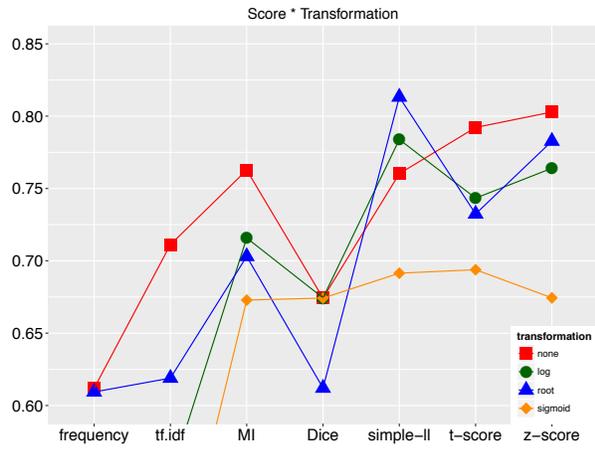


Figure 3.12

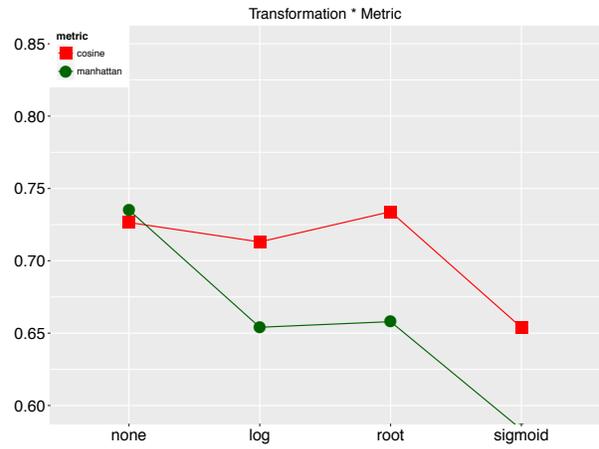


Figure 3.13

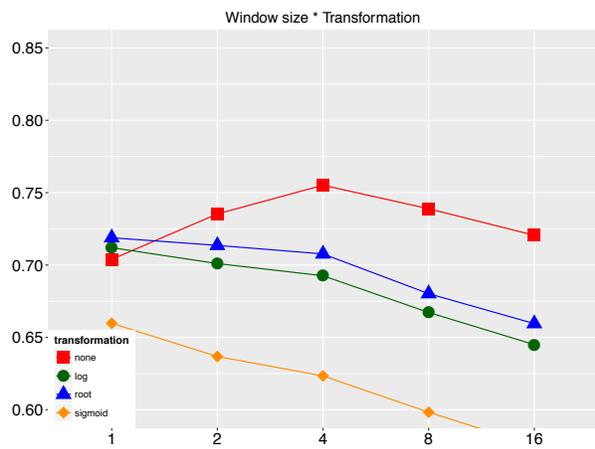


Figure 3.14

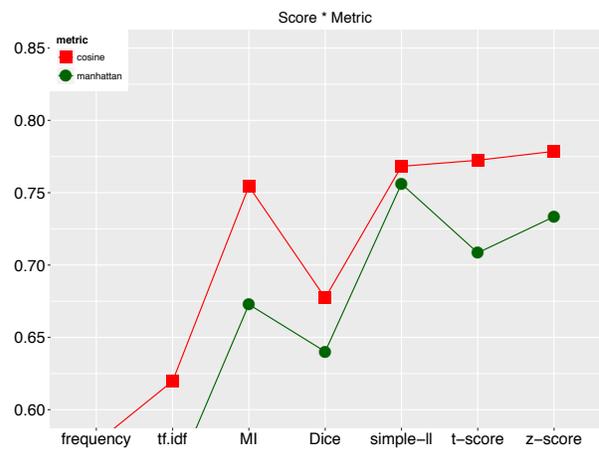


Figure 3.15

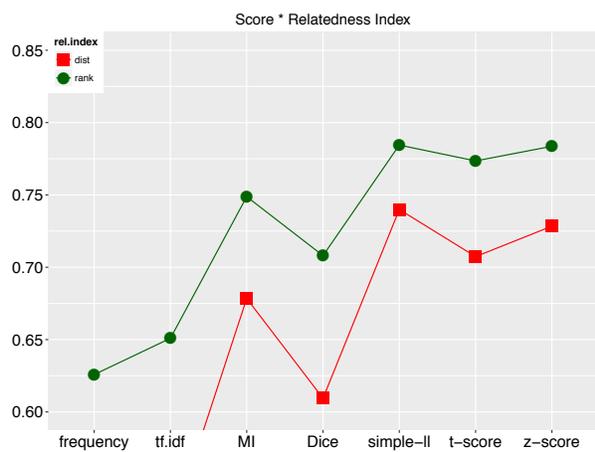


Figure 3.16

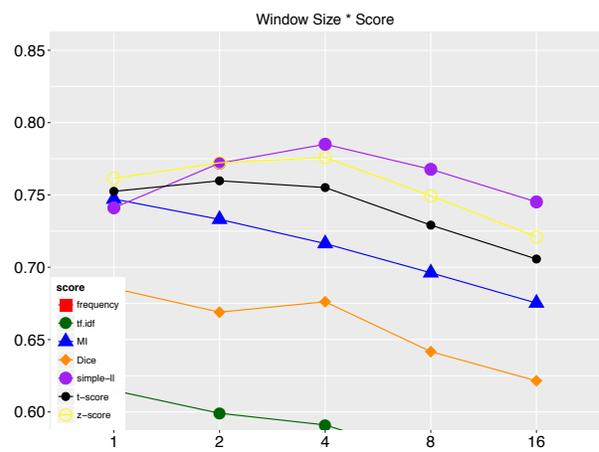


Figure 3.17

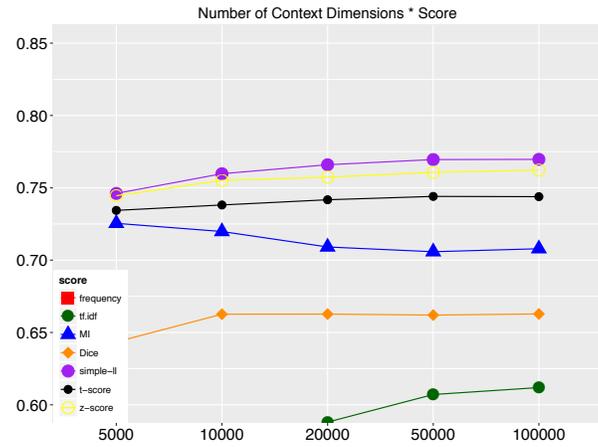


Figure 3.18

### 3.6.3 Interactions: reduced

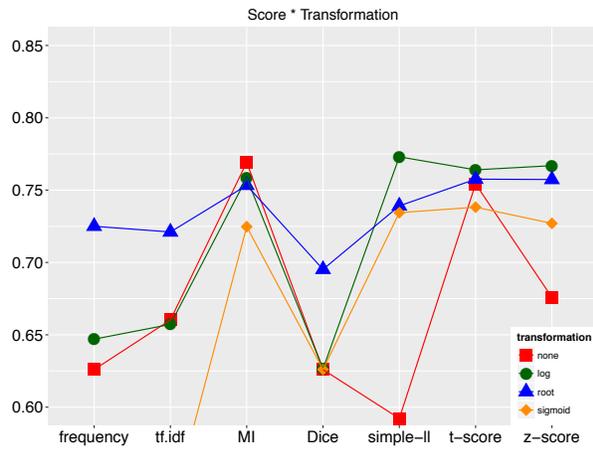


Figure 3.19

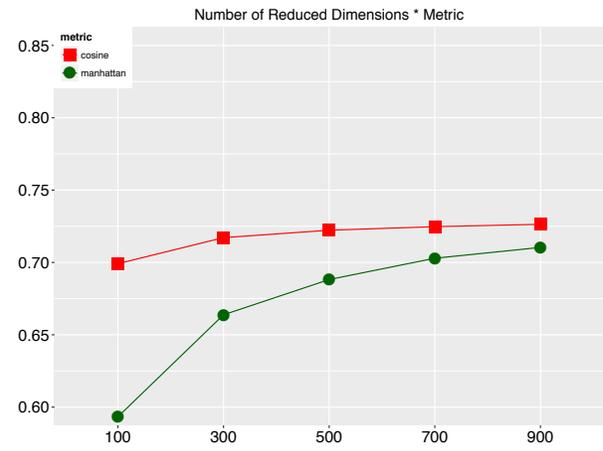


Figure 3.20

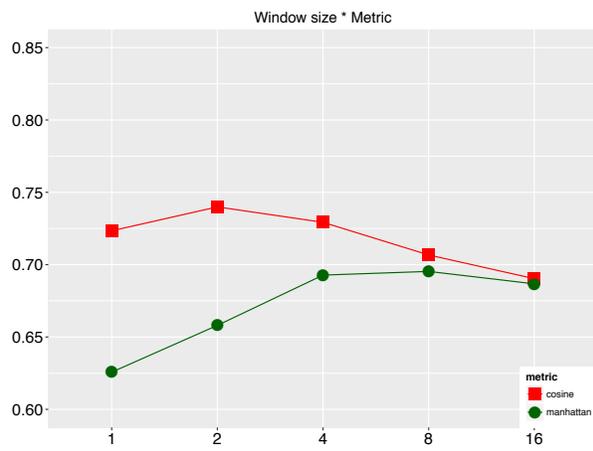


Figure 3.21

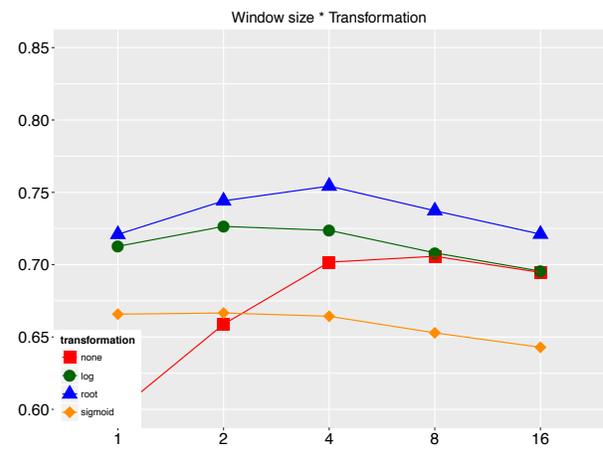


Figure 3.22

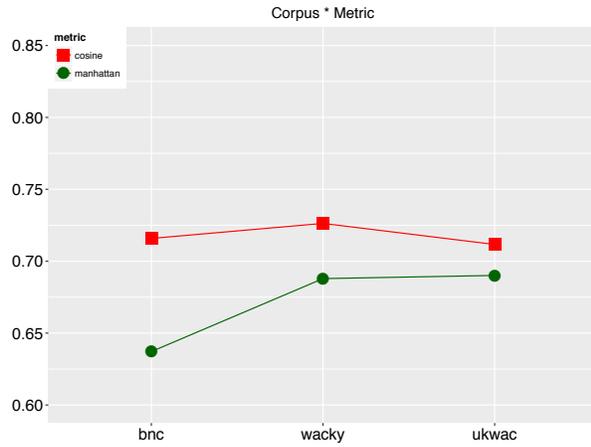


Figure 3.23

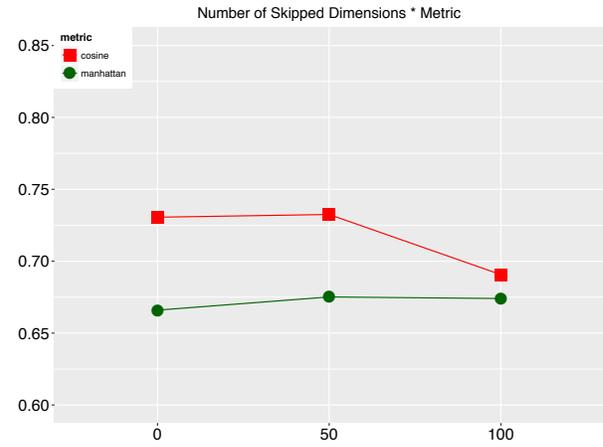


Figure 3.24

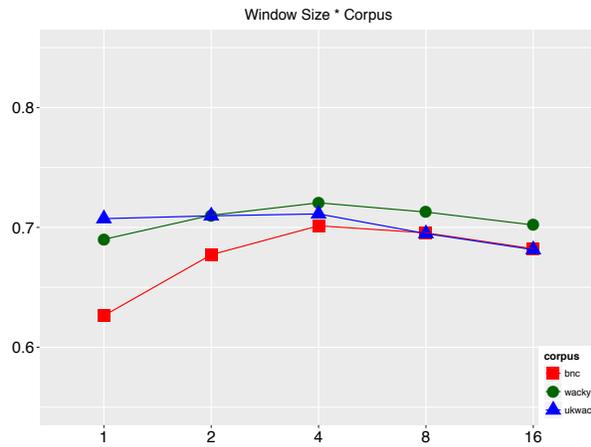


Figure 3.25

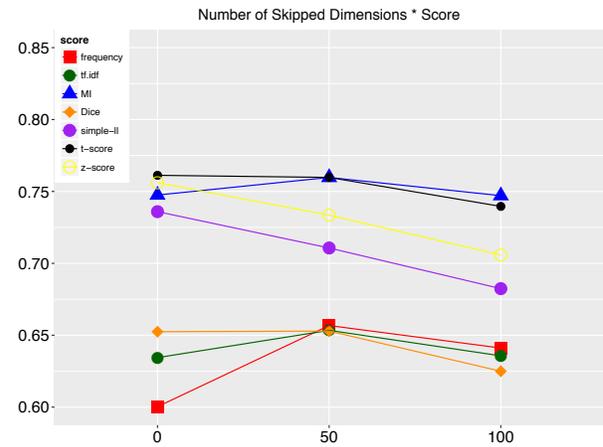


Figure 3.26

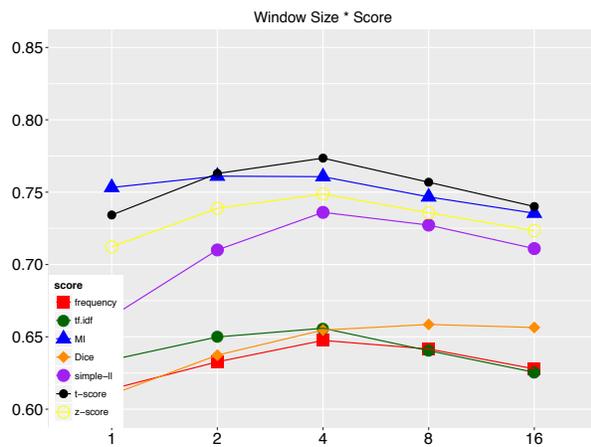


Figure 3.27

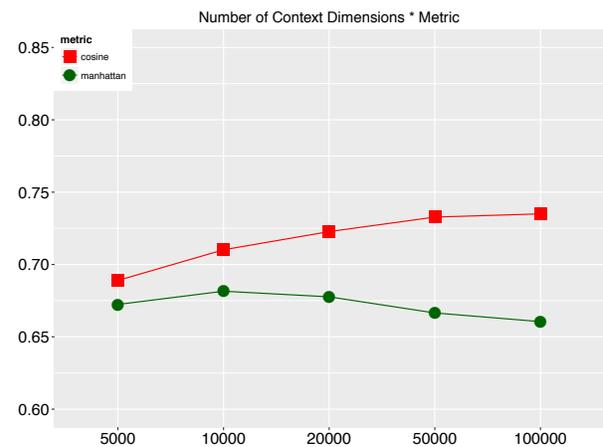


Figure 3.28

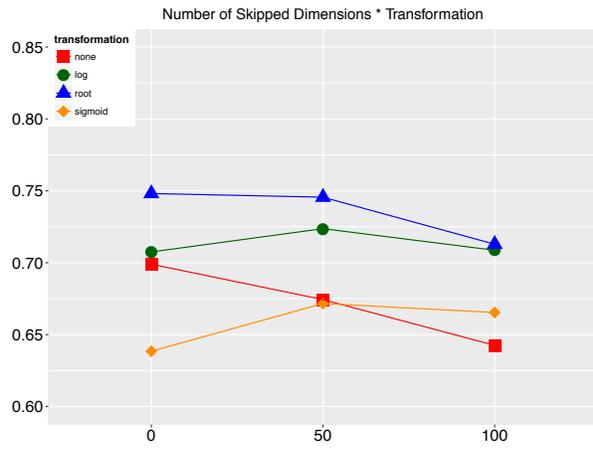


Figure 3.29

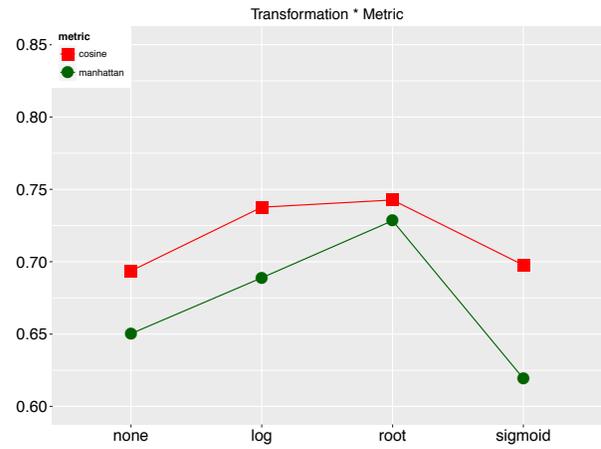


Figure 3.30

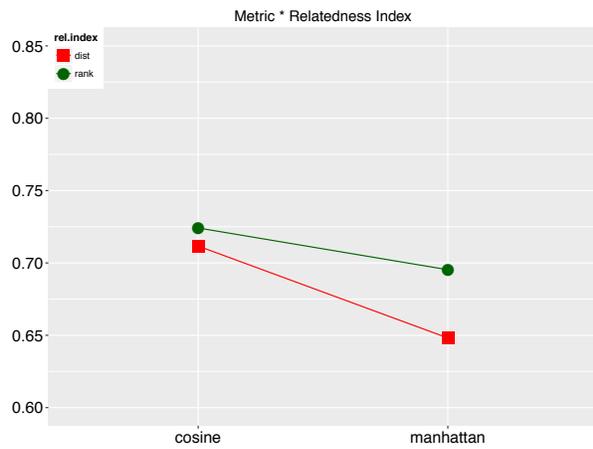


Figure 3.31

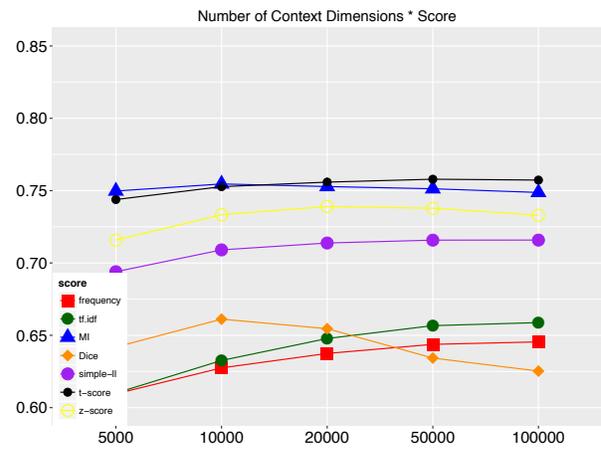


Figure 3.32

## 3.7 ESSLLI

### 3.7.1 Main Effects

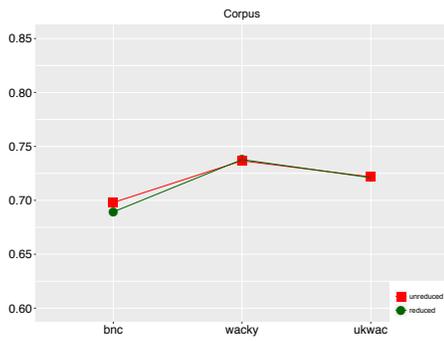


Figure 3.1

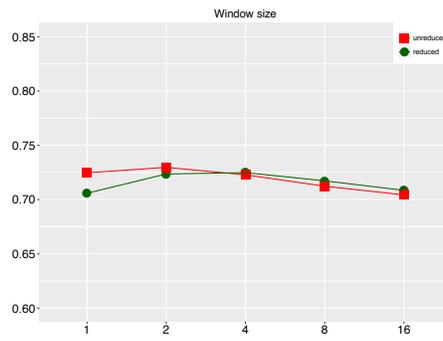


Figure 3.2

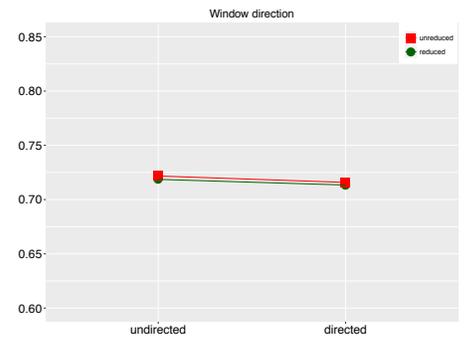


Figure 3.3

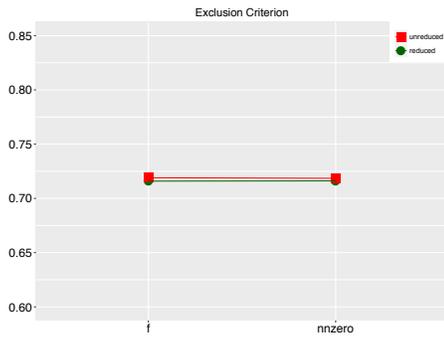


Figure 3.4

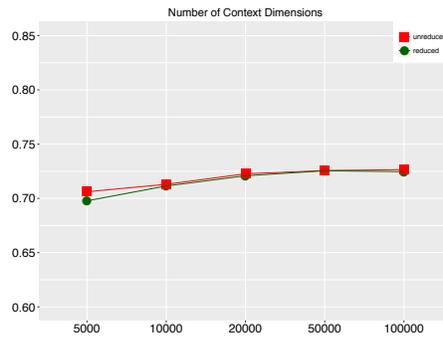


Figure 3.5

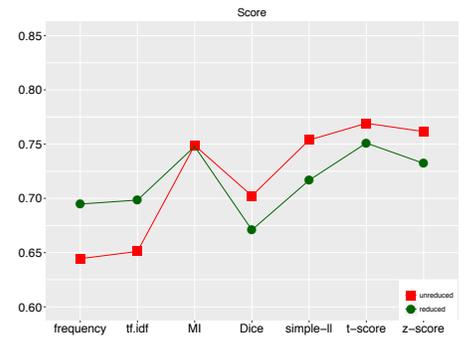


Figure 3.6

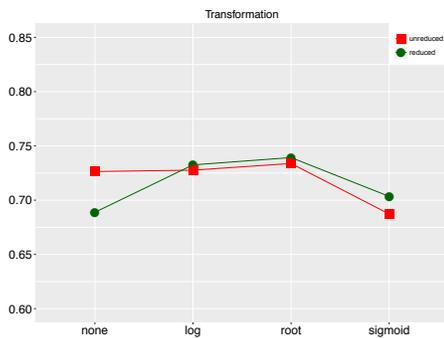


Figure 3.7

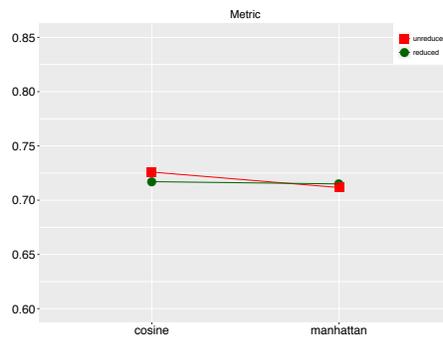


Figure 3.8

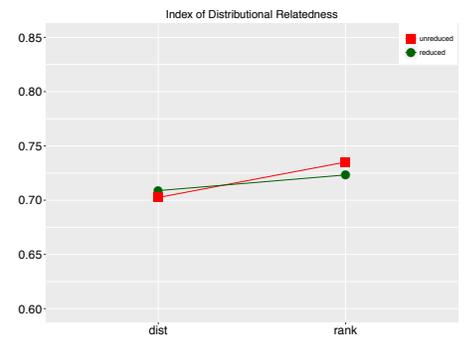


Figure 3.9

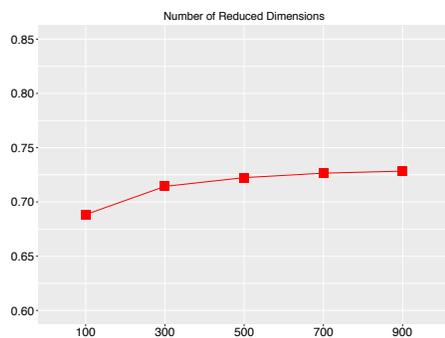


Figure 3.10

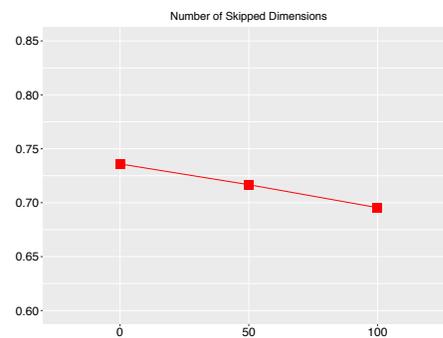


Figure 3.11

### 3.7.2 Interactions: unreduced

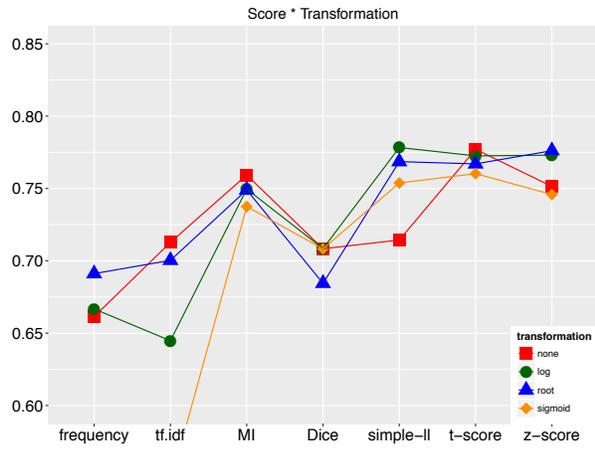


Figure 3.12

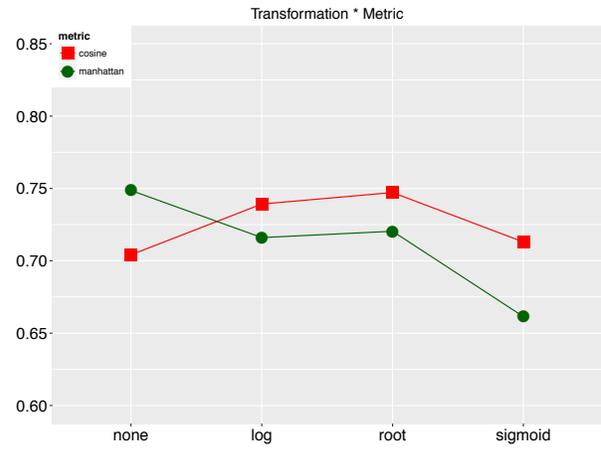


Figure 3.13

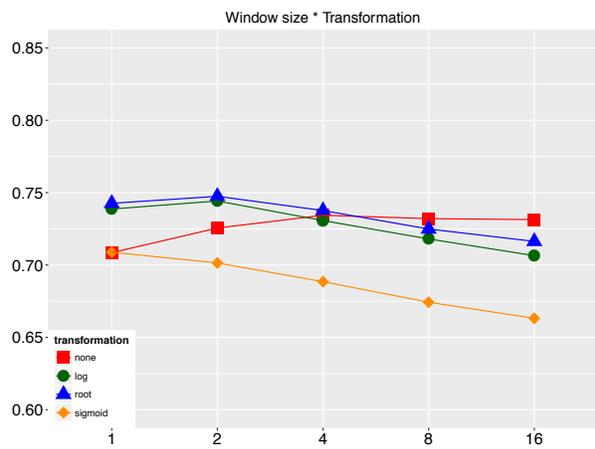


Figure 3.14

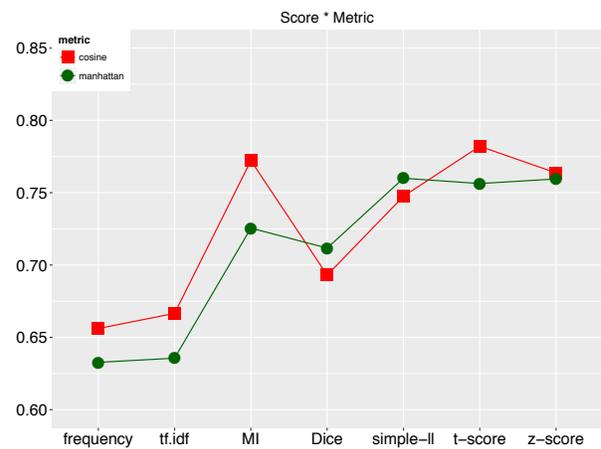


Figure 3.15

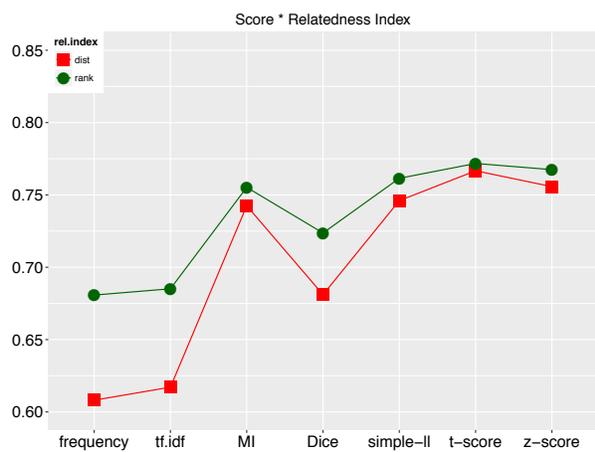


Figure 3.16

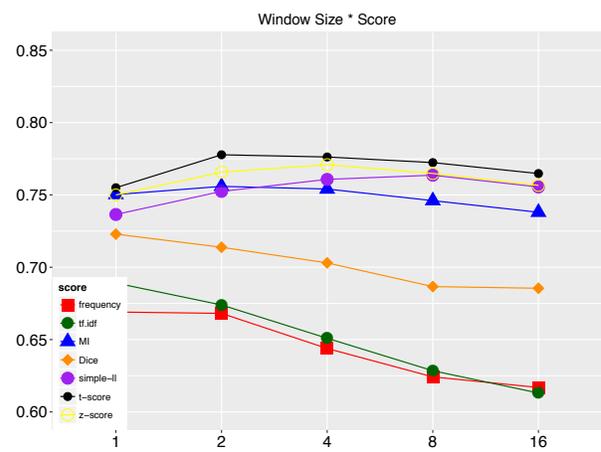


Figure 3.17

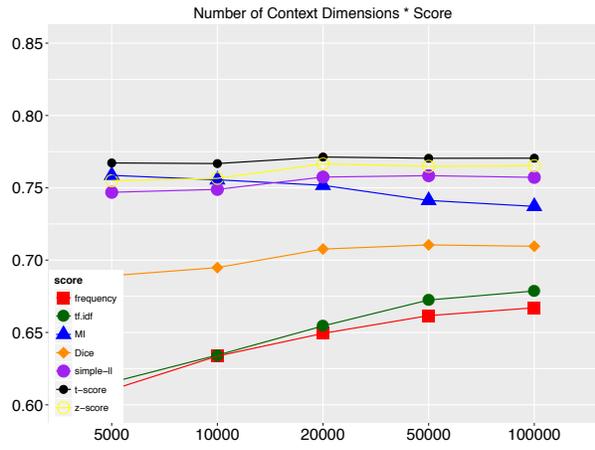


Figure 3.18

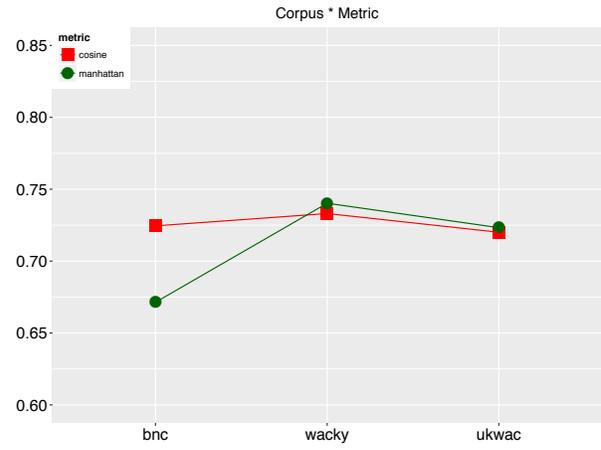


Figure 3.19

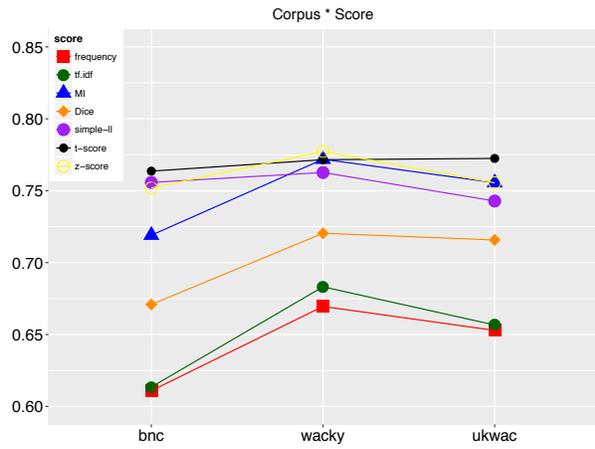


Figure 3.20

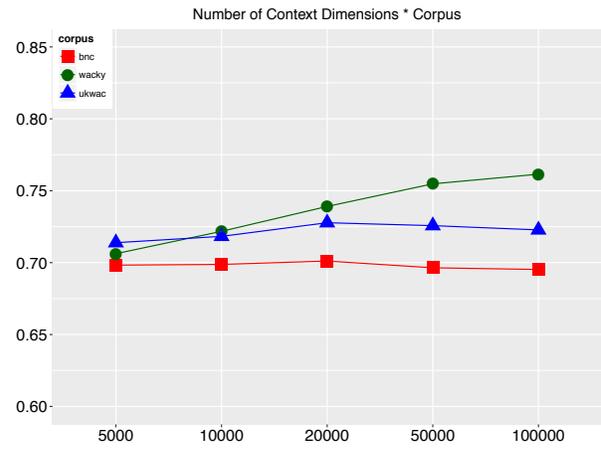


Figure 3.21

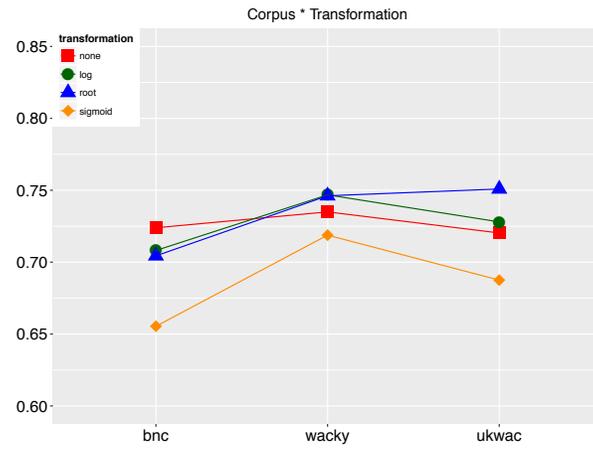


Figure 3.22

### 3.7.3 Interactions: reduced

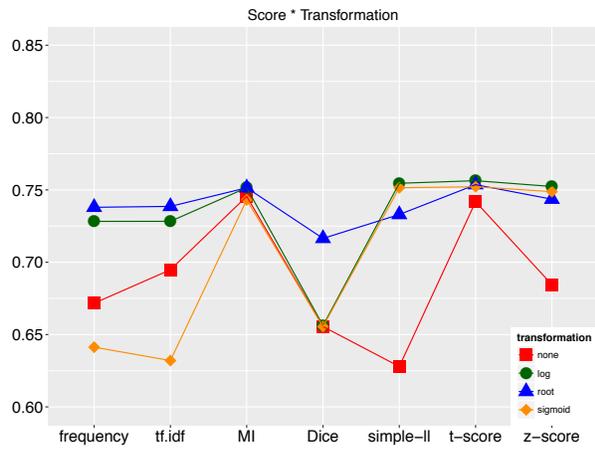


Figure 3.23

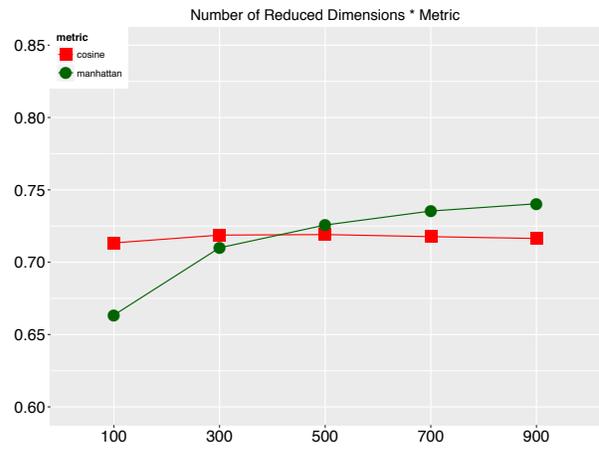


Figure 3.24

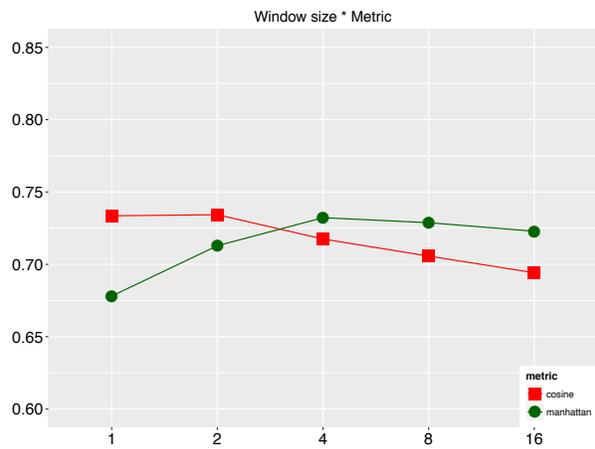


Figure 3.25

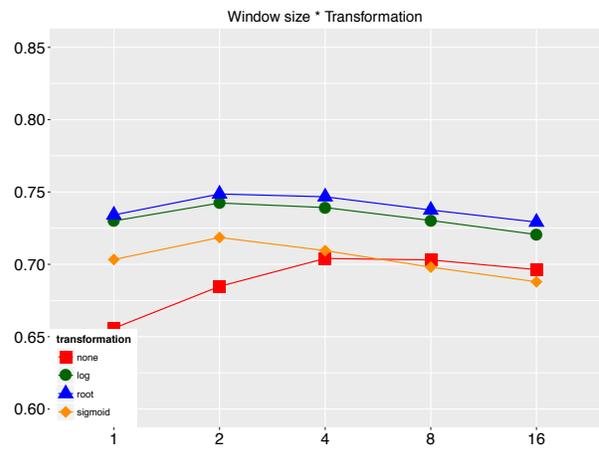


Figure 3.26

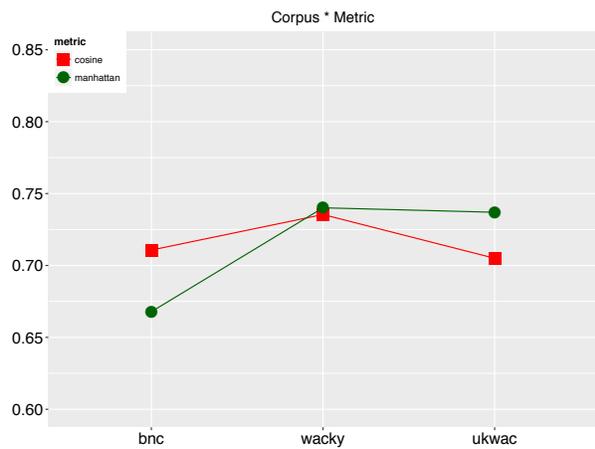


Figure 3.27

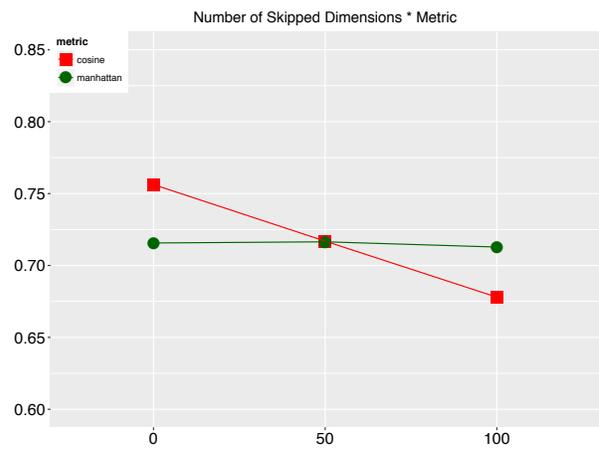


Figure 3.28

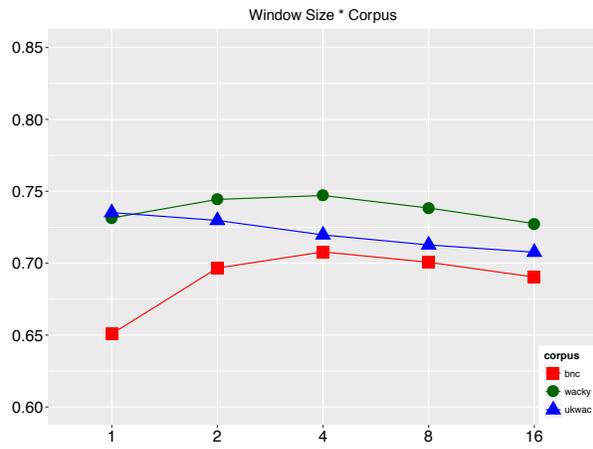


Figure 3.29

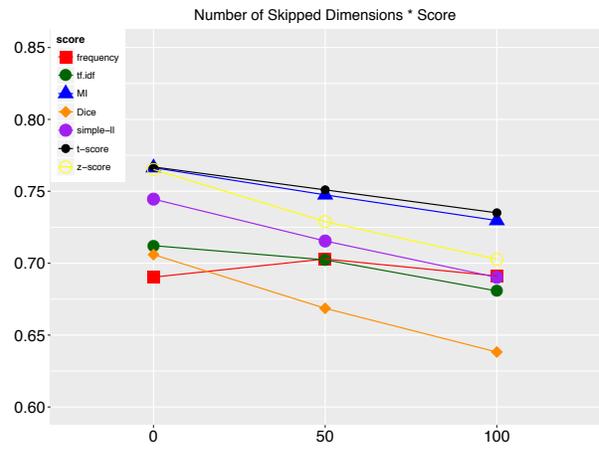


Figure 3.30

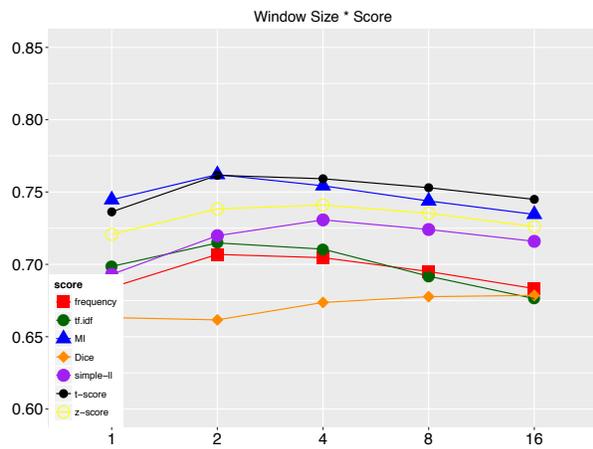


Figure 3.31

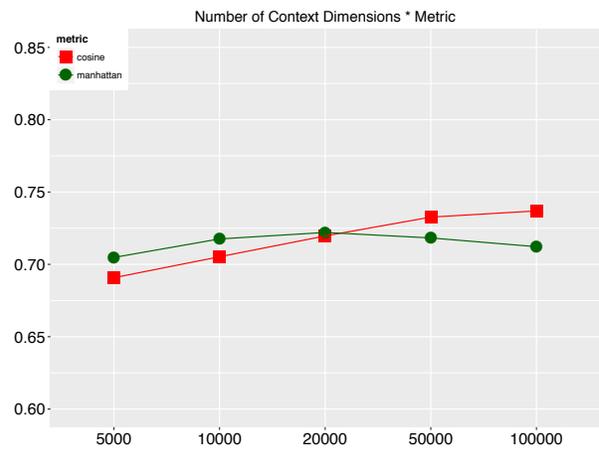


Figure 3.32

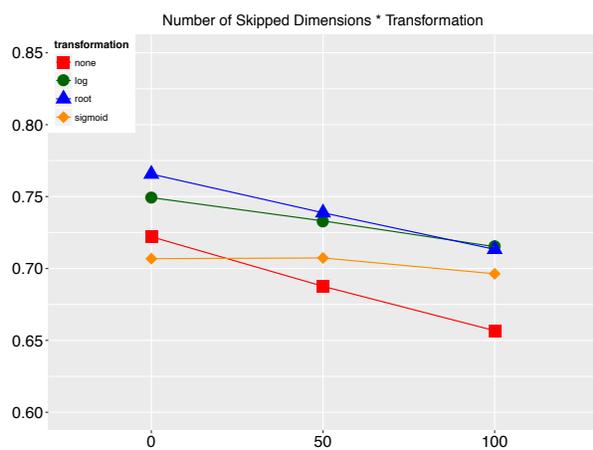


Figure 3.33

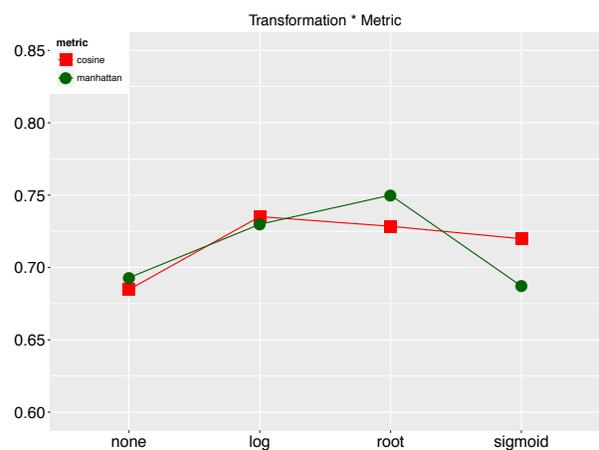


Figure 3.34

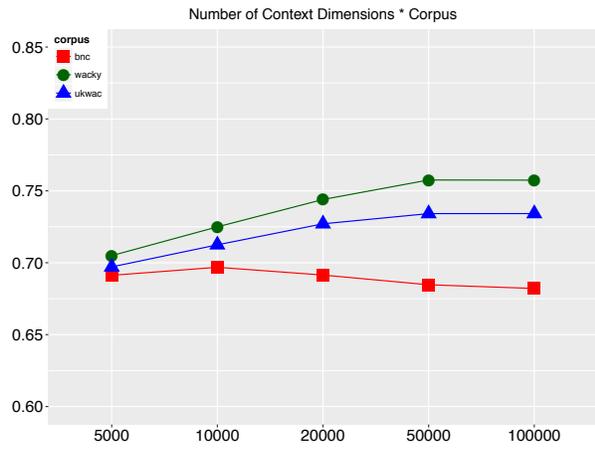


Figure 3.35

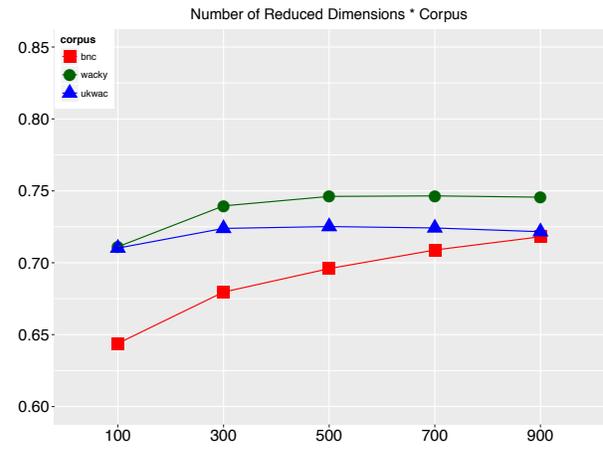


Figure 3.36

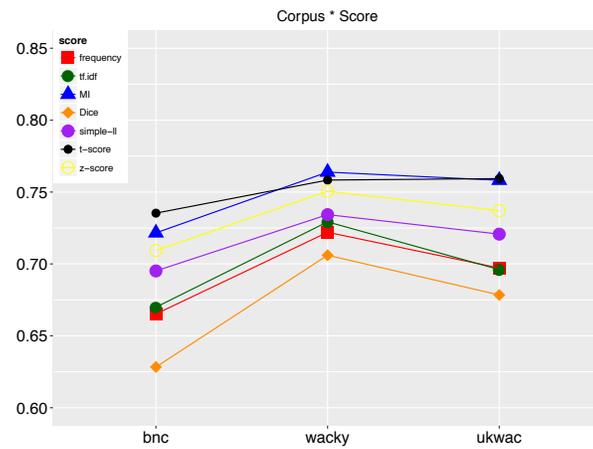


Figure 3.37

### 3.8 SYN

#### 3.8.1 Main Effects

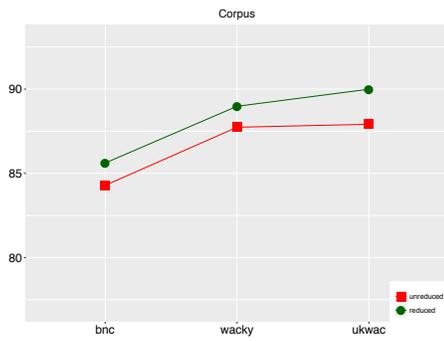


Figure 3.1

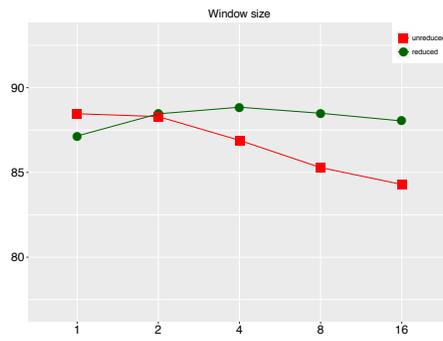


Figure 3.2

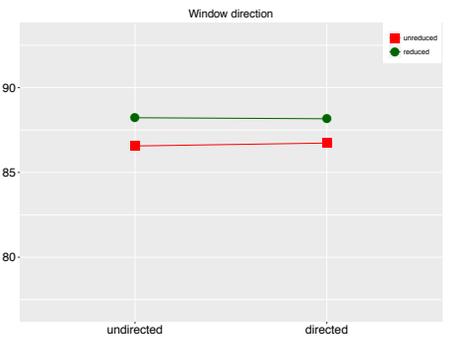


Figure 3.3

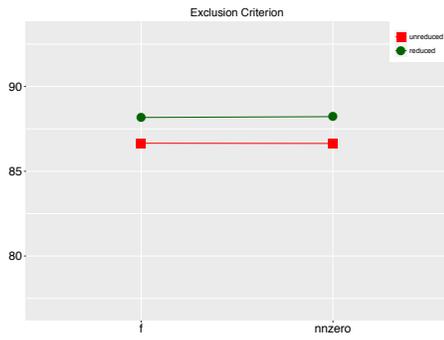


Figure 3.4

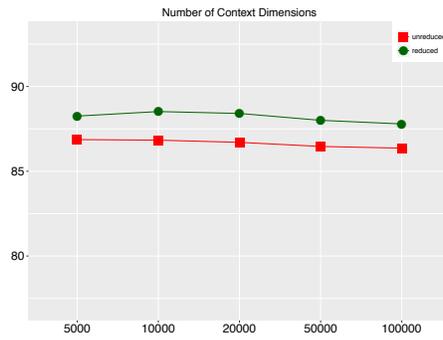


Figure 3.5

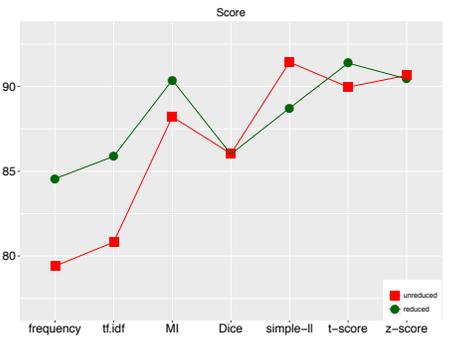


Figure 3.6

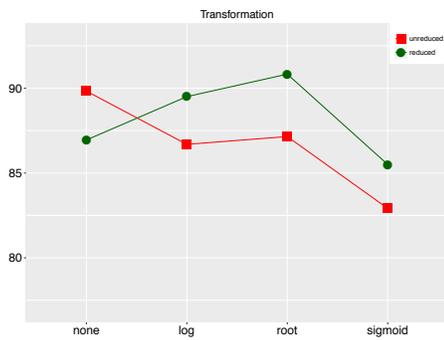


Figure 3.7

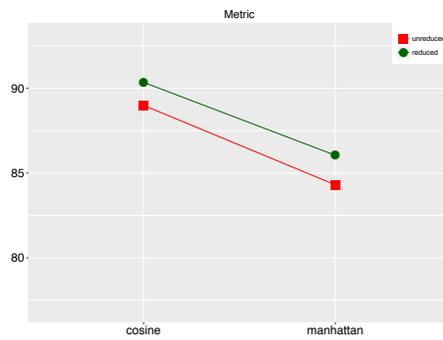


Figure 3.8

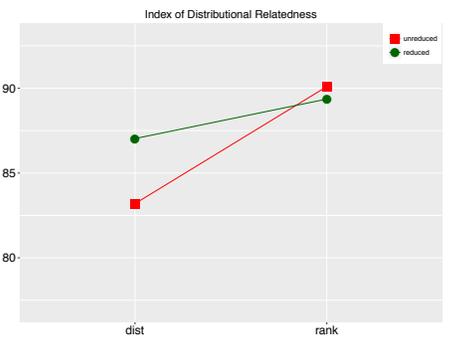


Figure 3.9

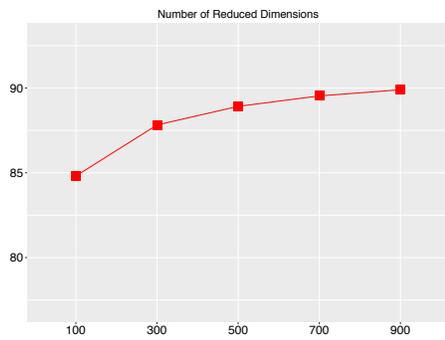


Figure 3.10

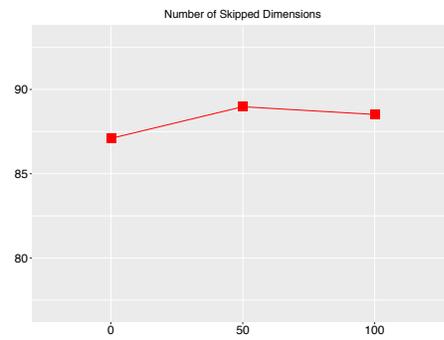


Figure 3.11

### 3.8.2 Interactions: unreduced

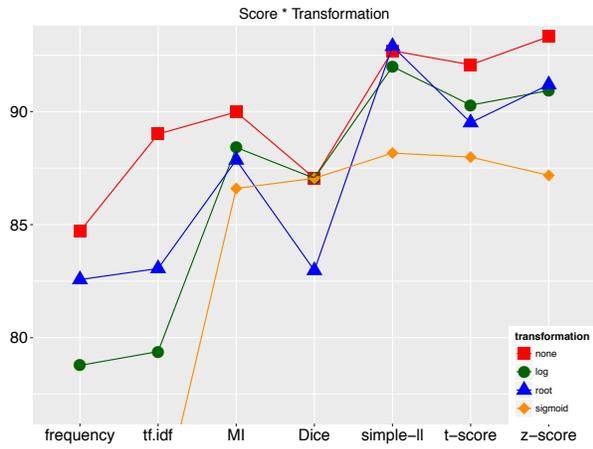


Figure 3.12

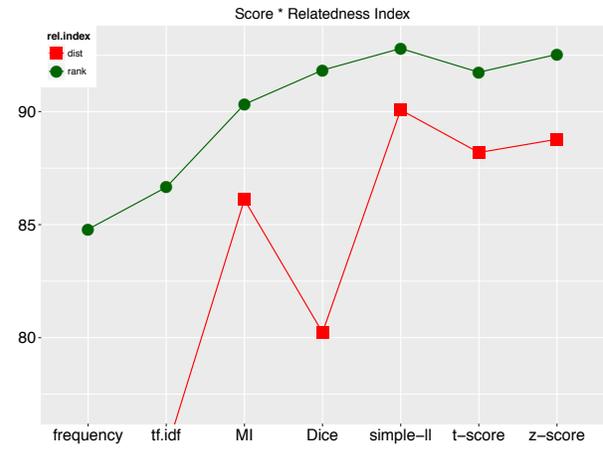


Figure 3.13

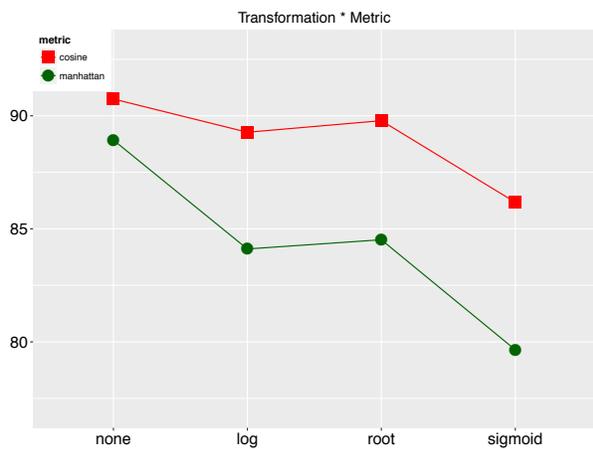


Figure 3.14

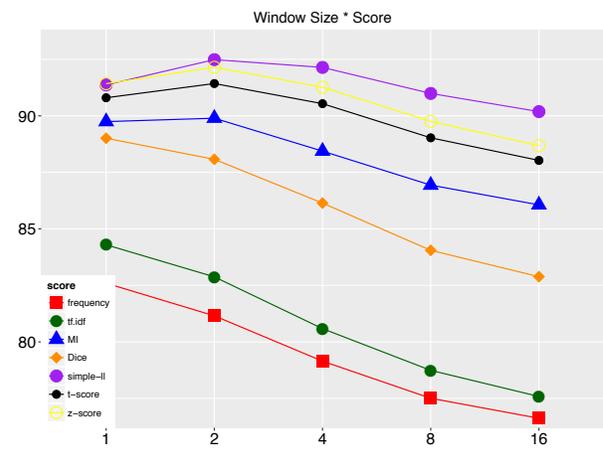


Figure 3.15

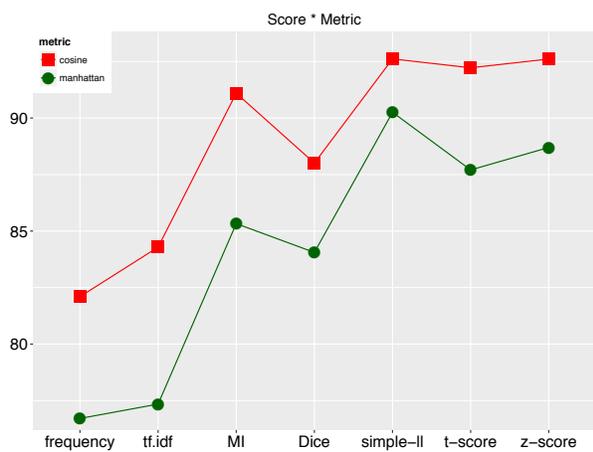


Figure 3.16

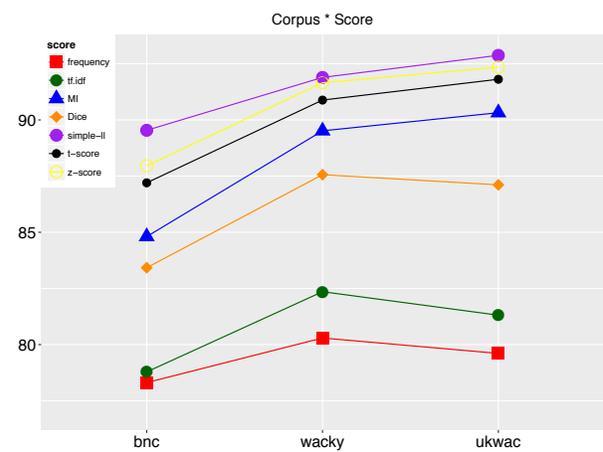


Figure 3.17

### 3.8.3 Interactions: reduced

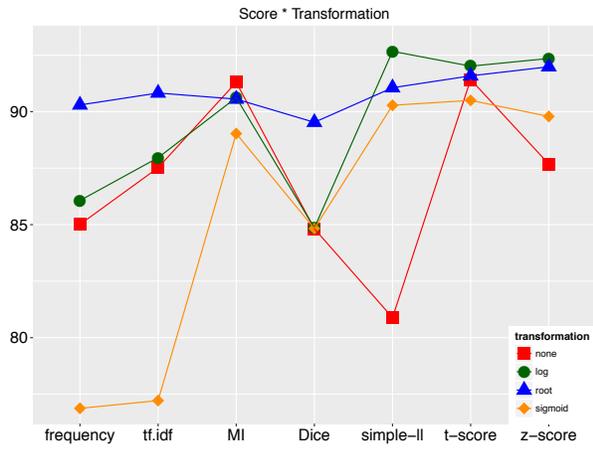


Figure 3.18

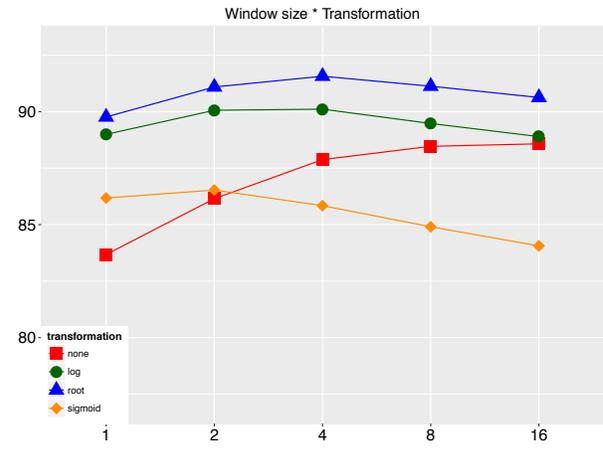


Figure 3.19

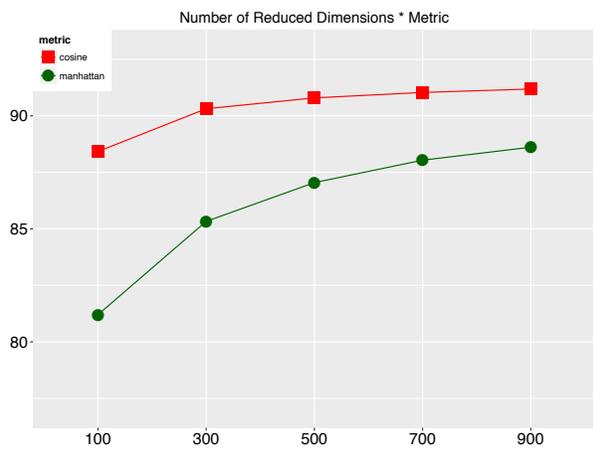


Figure 3.20

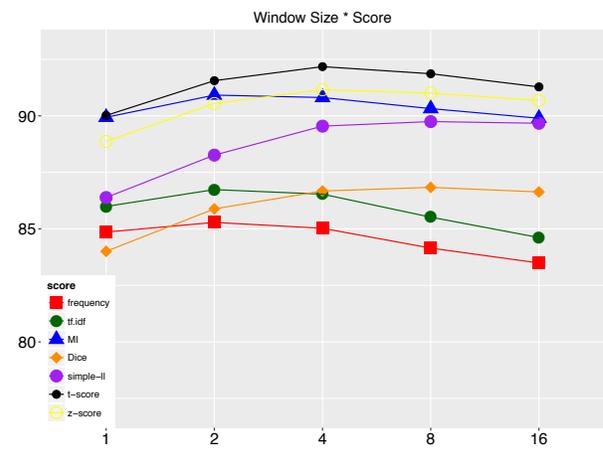


Figure 3.21

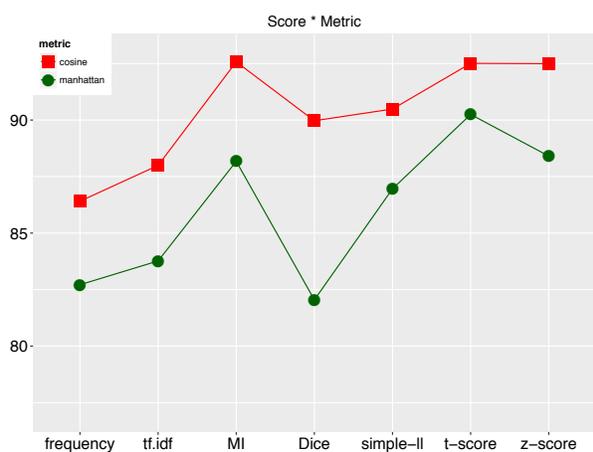


Figure 3.22

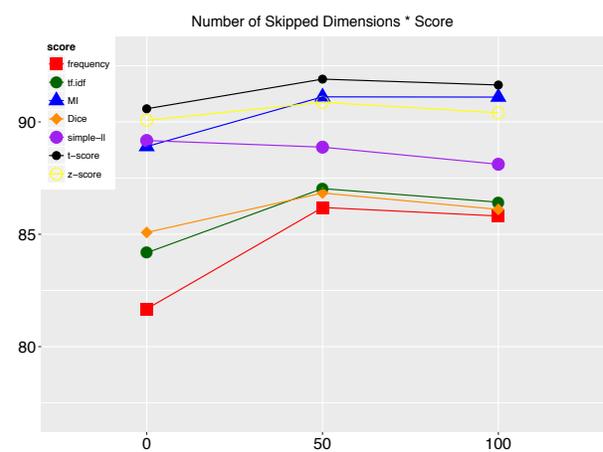


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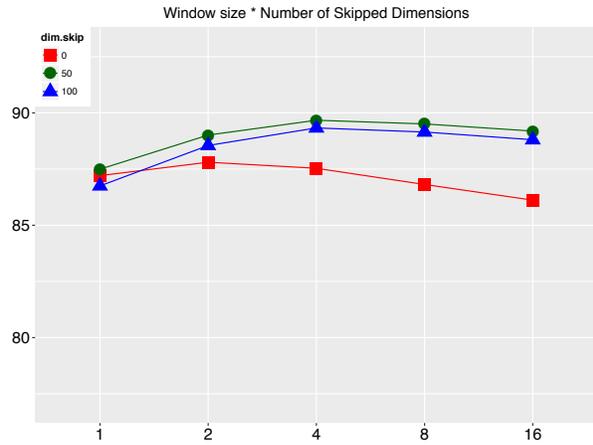


Figure 3.24

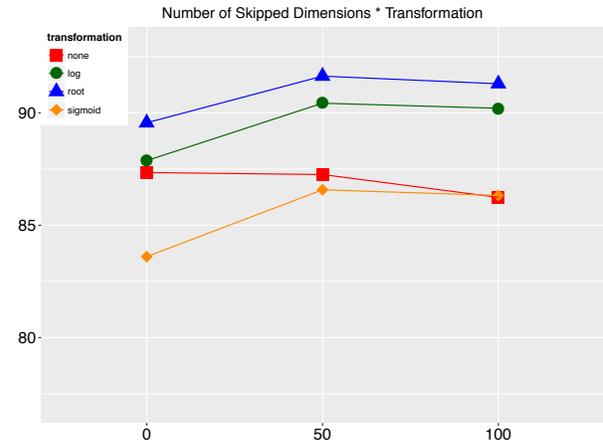


Figure 3.25

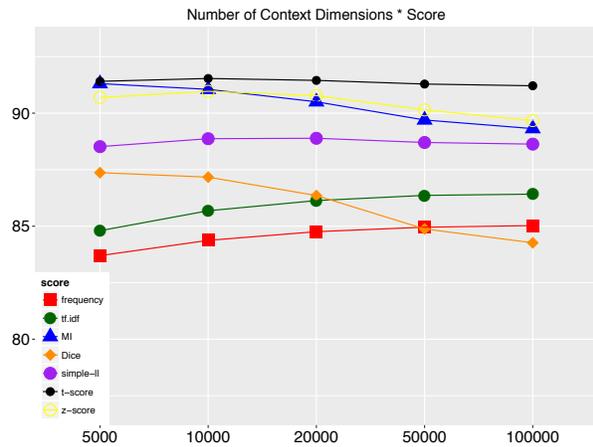


Figure 3.26

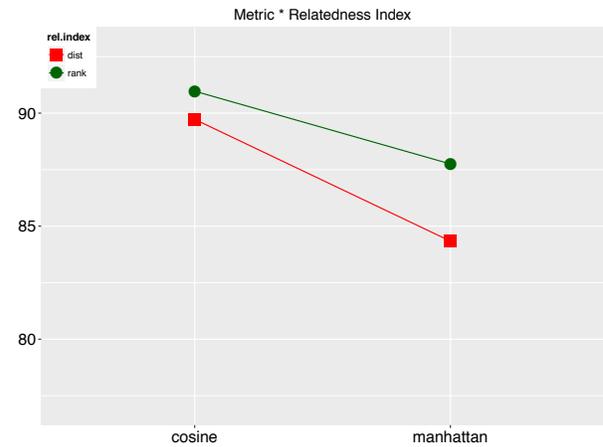


Figure 3.27

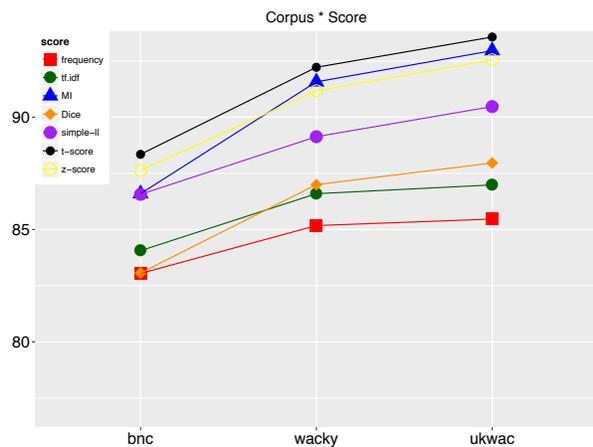


Figure 3.28

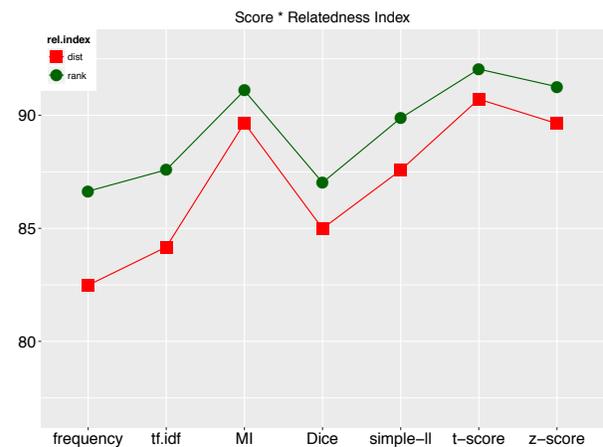


Figure 3.29

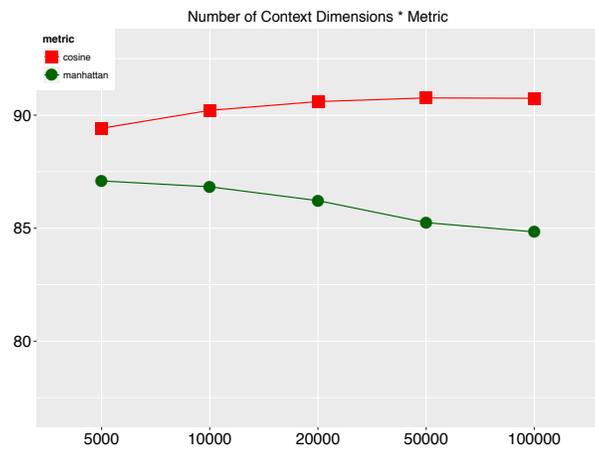


Figure 3.30

### 3.9 ANT

#### 3.9.1 Main Effects

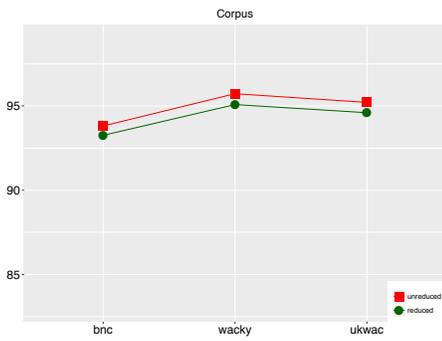


Figure 3.1

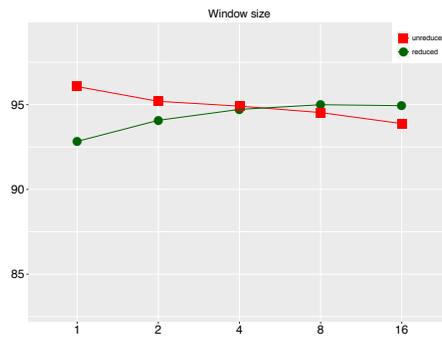


Figure 3.2

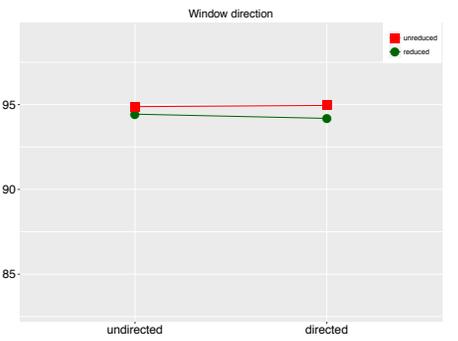


Figure 3.3

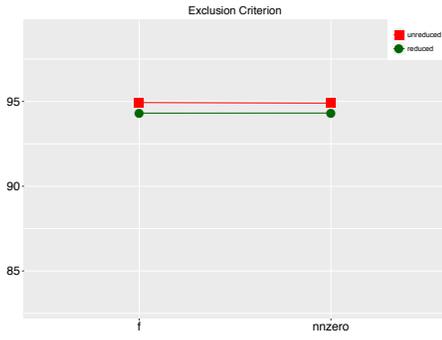


Figure 3.4

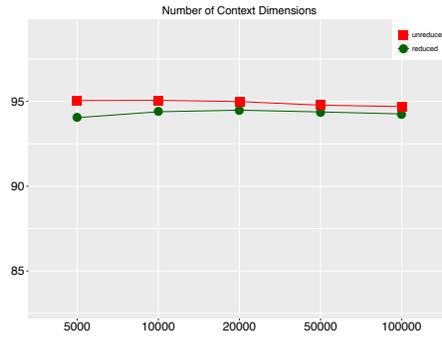


Figure 3.5

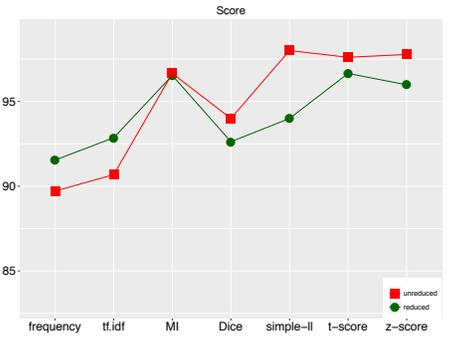


Figure 3.6

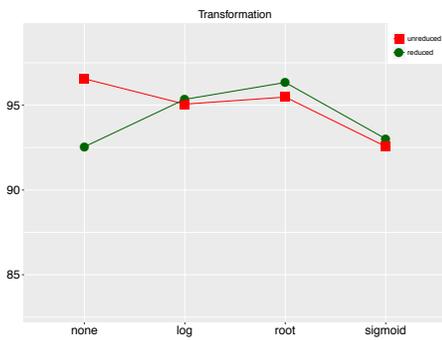


Figure 3.7

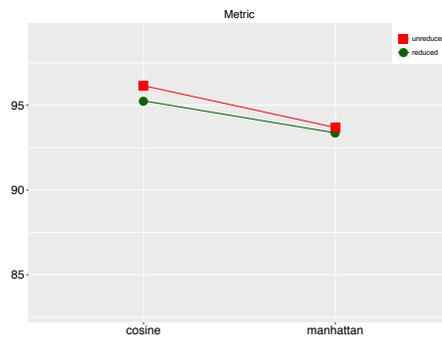


Figure 3.8

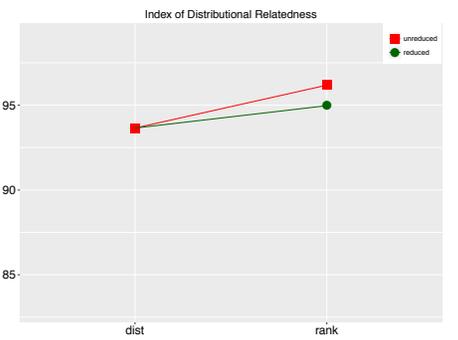


Figure 3.9

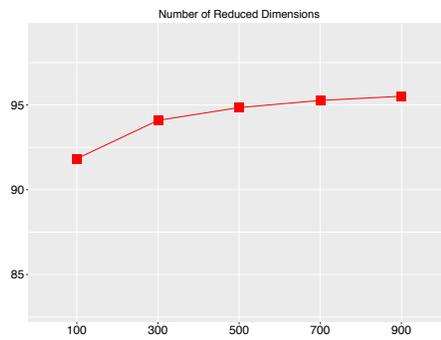


Figure 3.10

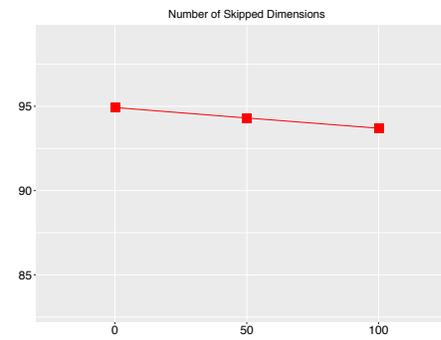


Figure 3.11

### 3.9.2 Interactions: unreduced

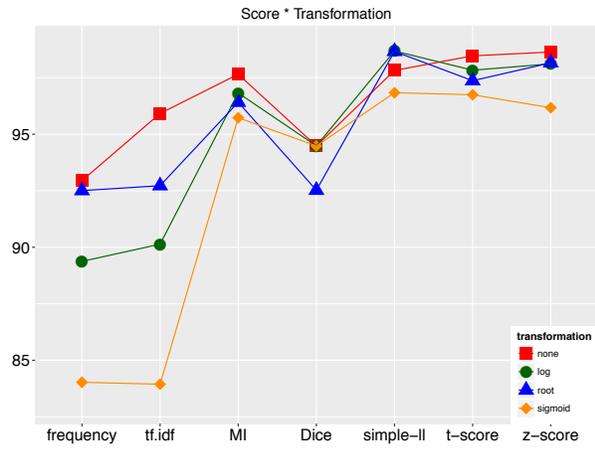


Figure 3.12

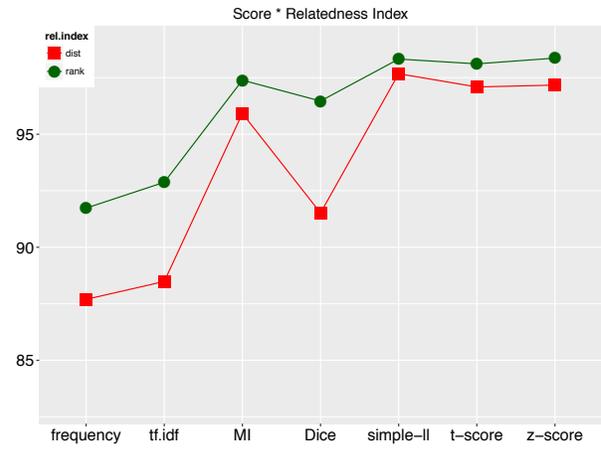


Figure 3.13

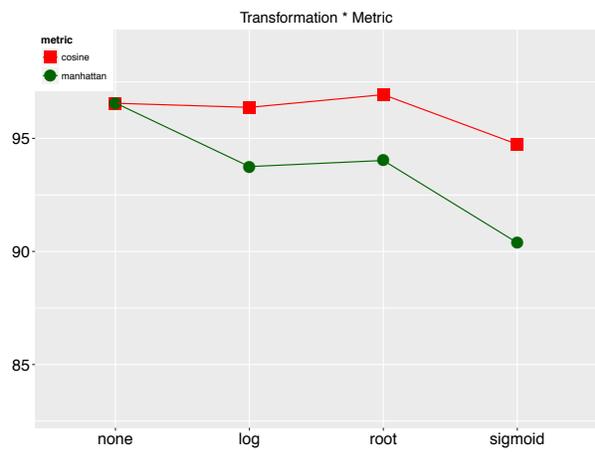


Figure 3.14

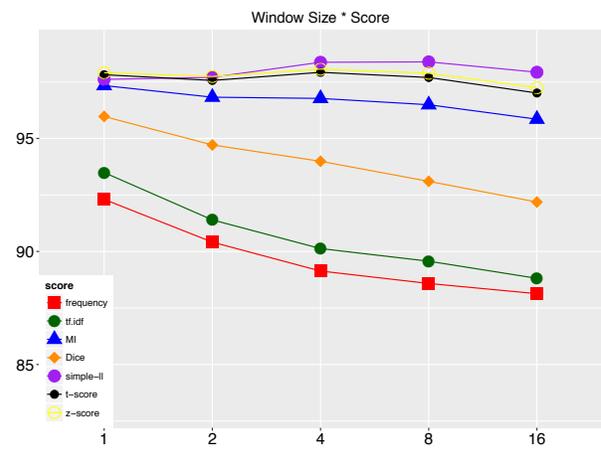


Figure 3.15

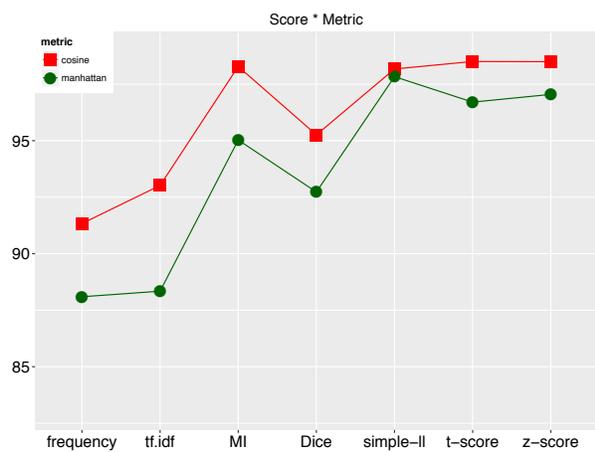


Figure 3.16

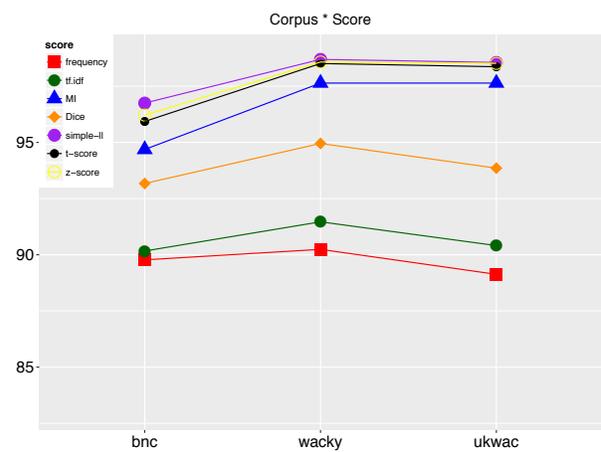


Figure 3.17

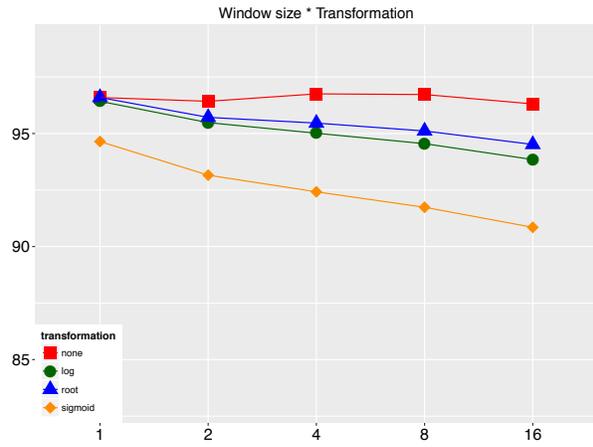


Figure 3.18

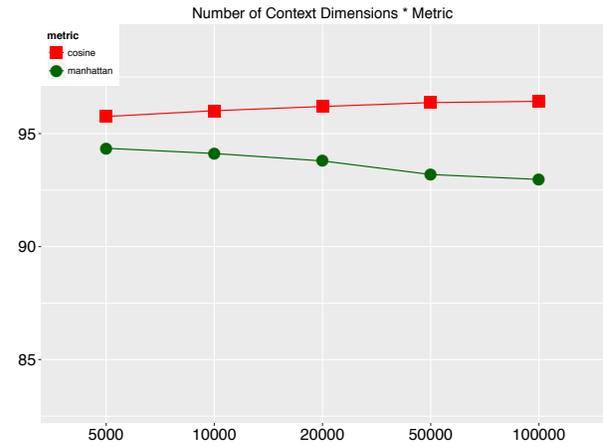


Figure 3.19

### 3.9.3 Interactions: reduced

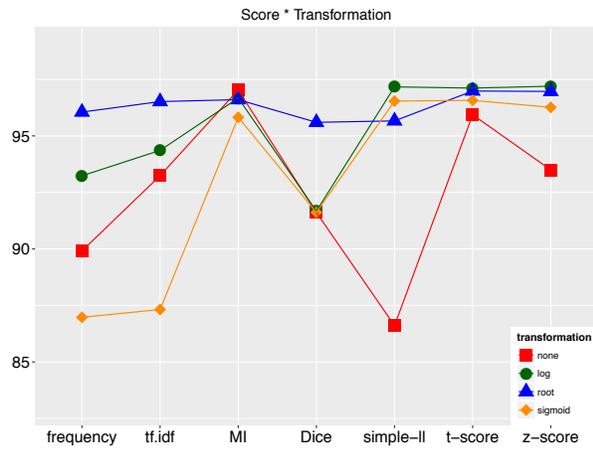


Figure 3.20

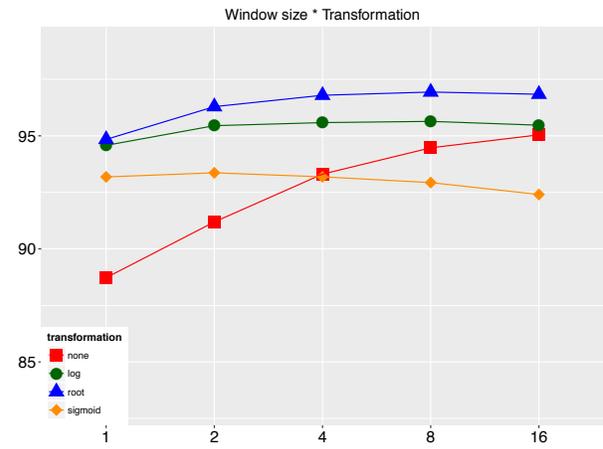


Figure 3.21

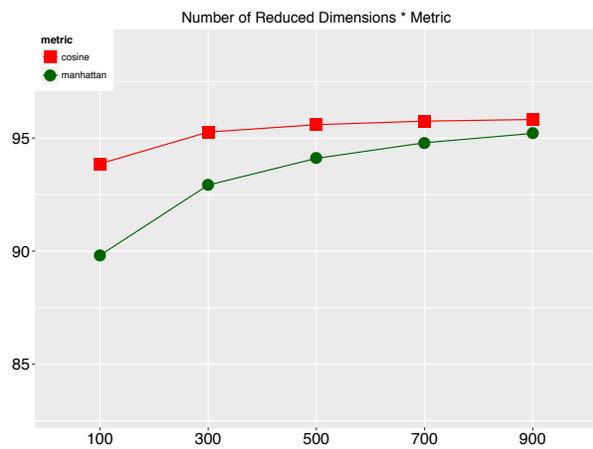


Figure 3.22

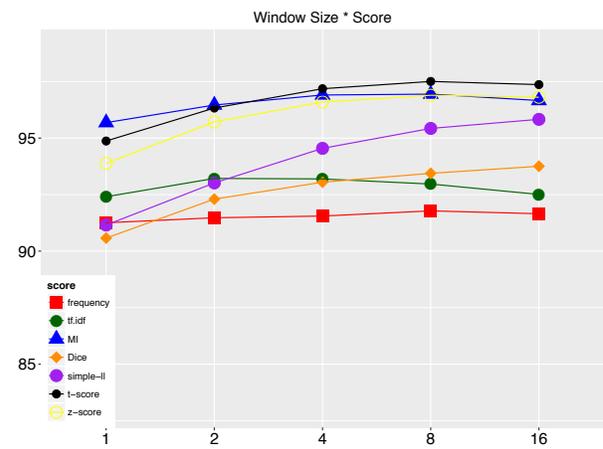


Figure 3.23

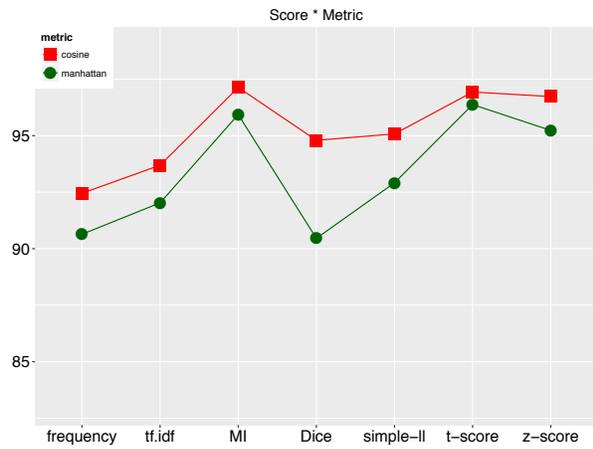


Figure 3.24

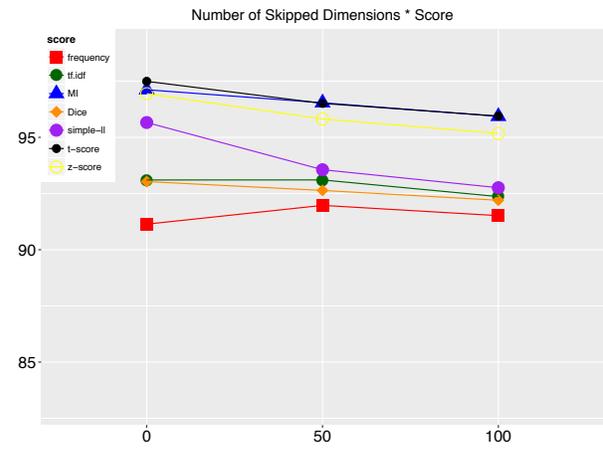


Figure 3.25

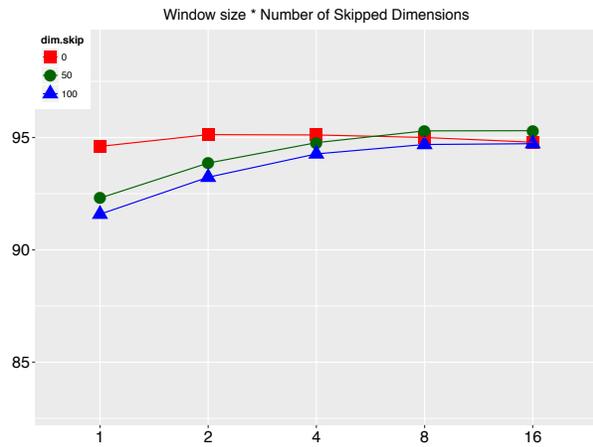


Figure 3.26

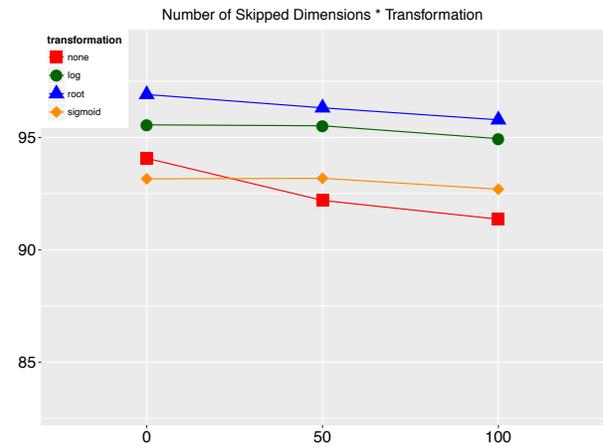


Figure 3.27

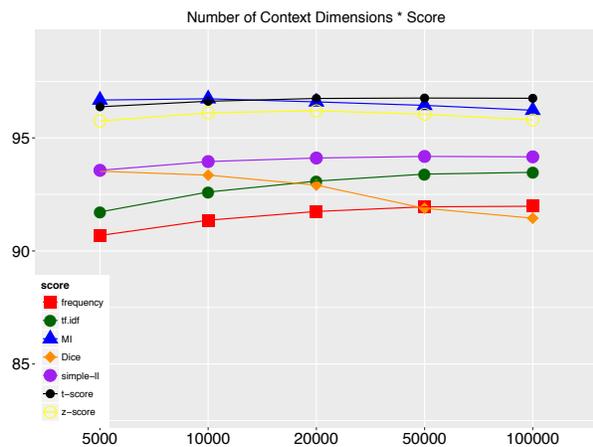


Figure 3.28

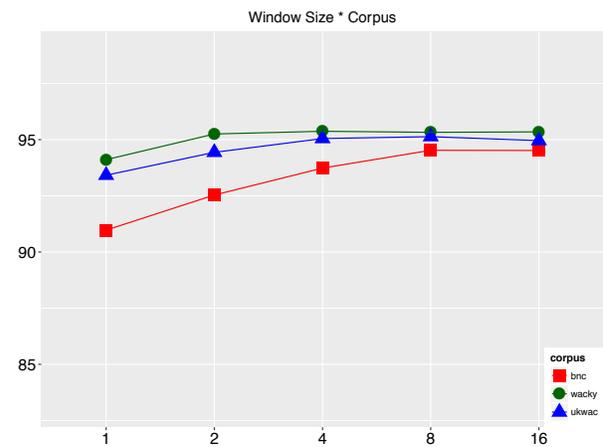


Figure 3.29

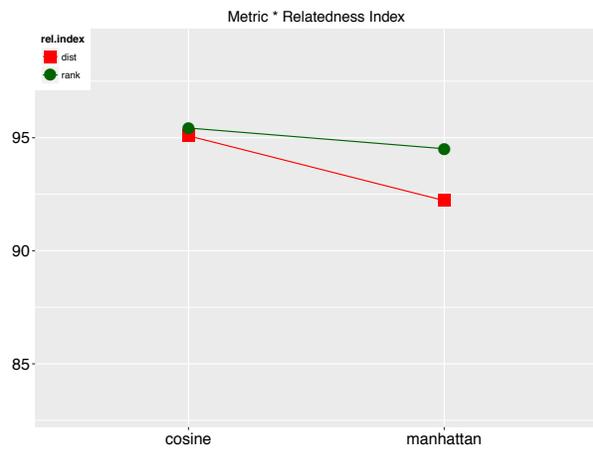


Figure 3.30

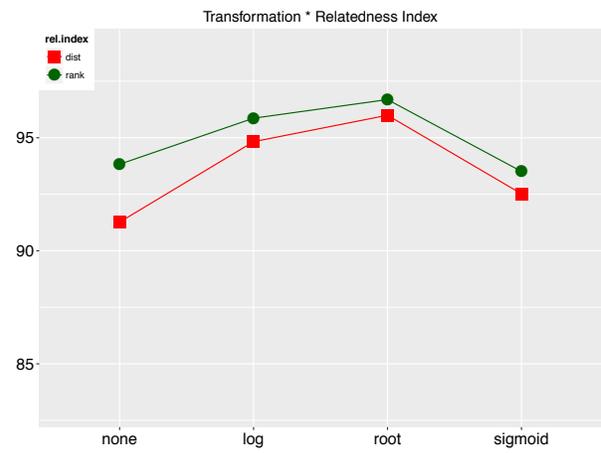


Figure 3.31

## 3.10 COH

### 3.10.1 Main Effects

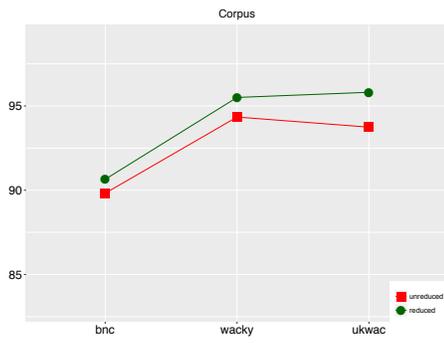


Figure 3.1

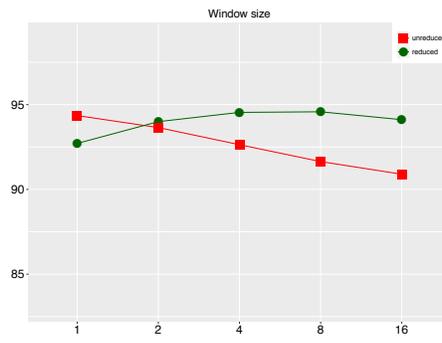


Figure 3.2

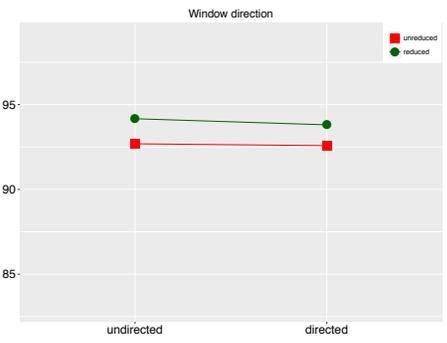


Figure 3.3

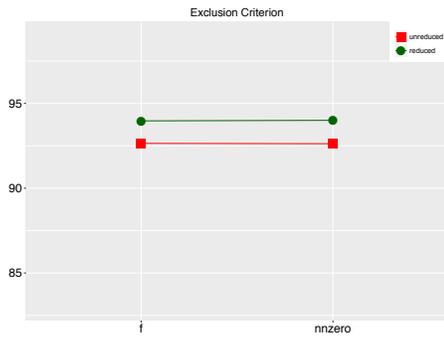


Figure 3.4

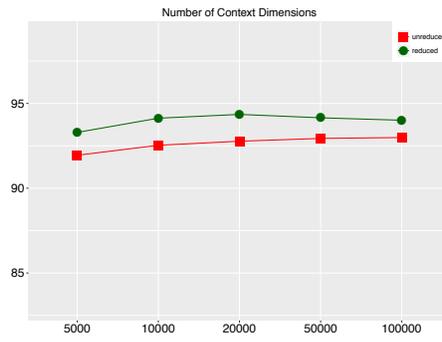


Figure 3.5

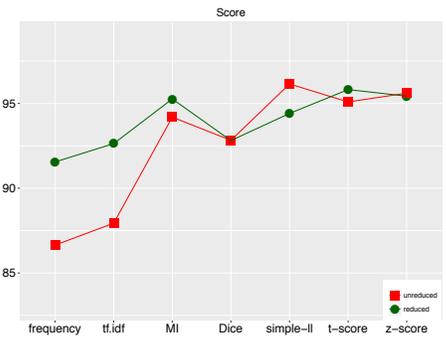


Figure 3.6

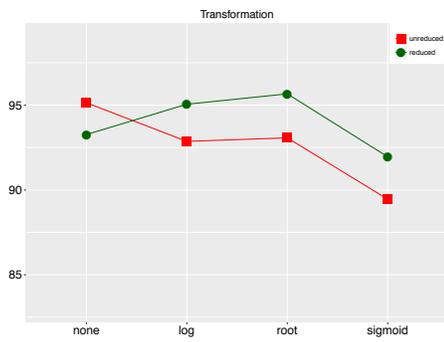


Figure 3.7

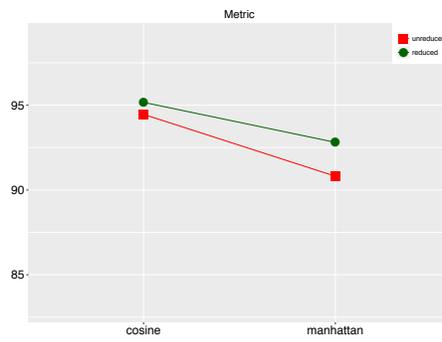


Figure 3.8

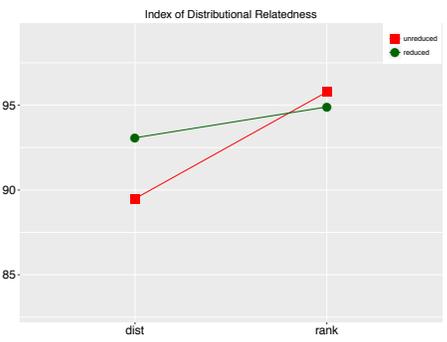


Figure 3.9

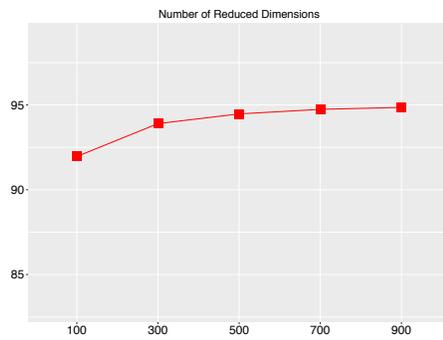


Figure 3.10

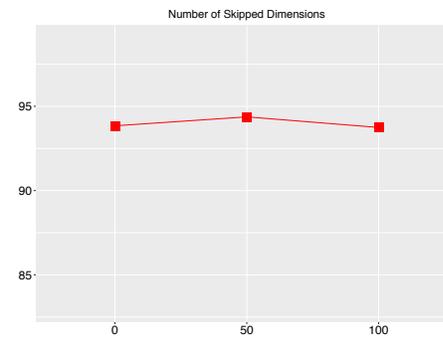


Figure 3.11

### 3.10.2 Interactions: unreduced

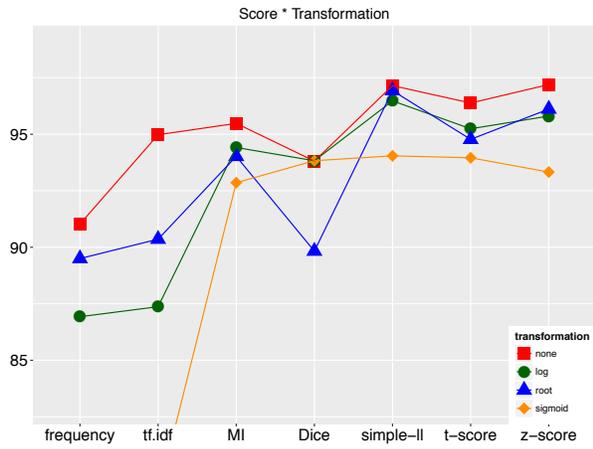


Figure 3.12

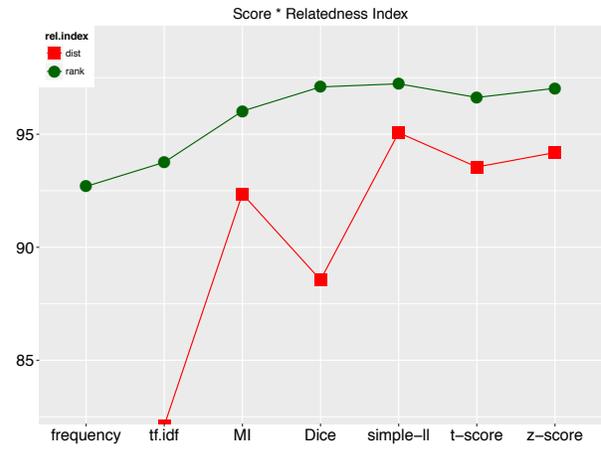


Figure 3.13

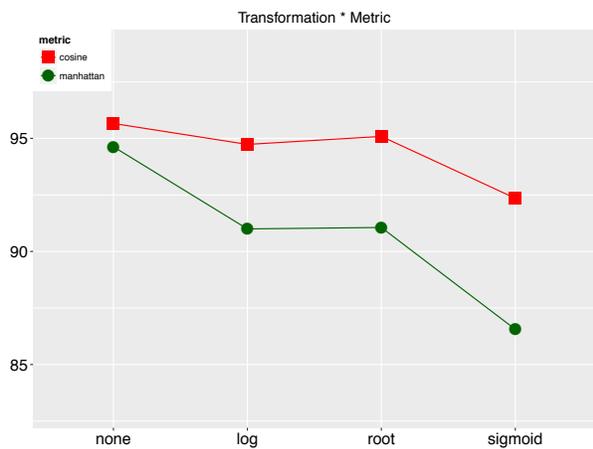


Figure 3.14

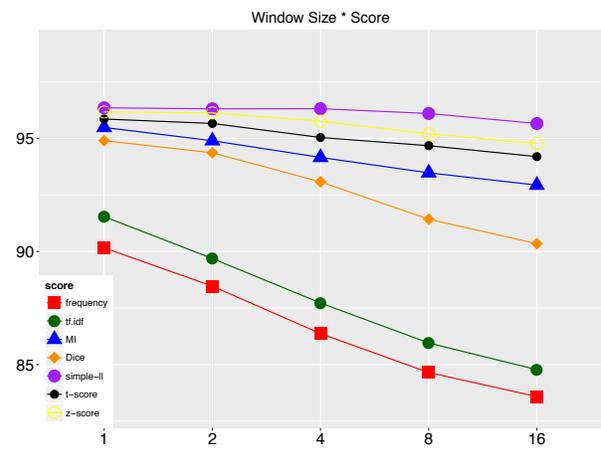


Figure 3.15

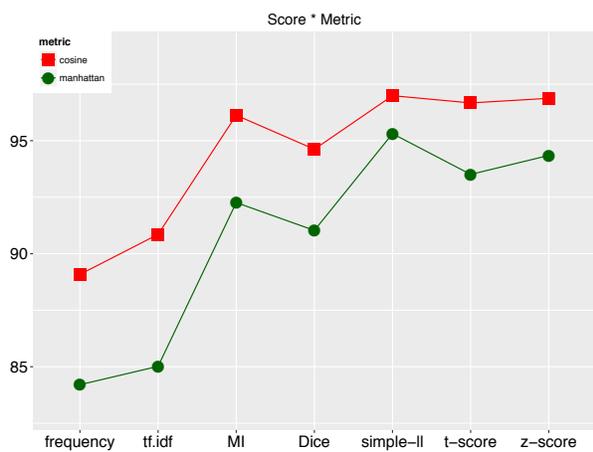


Figure 3.16

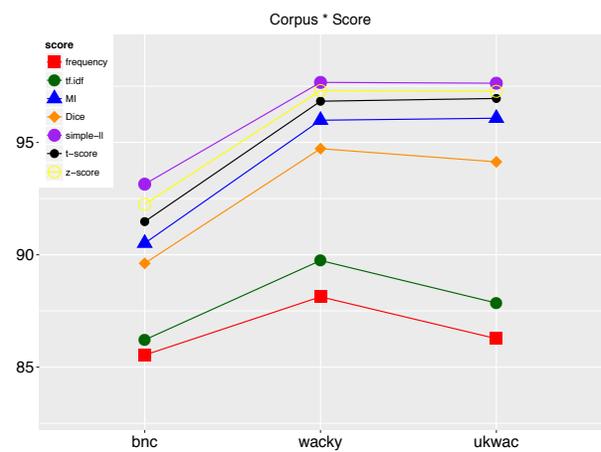


Figure 3.17

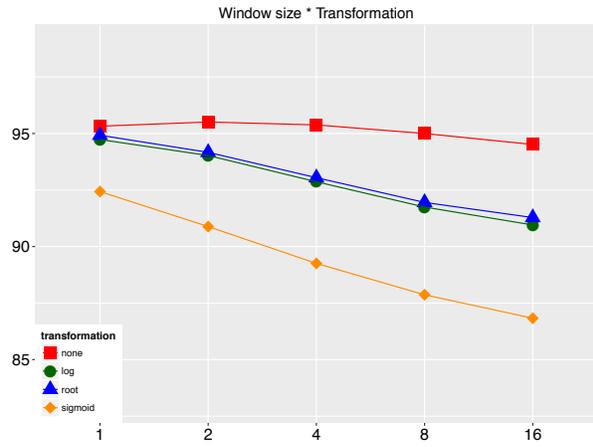


Figure 3.18

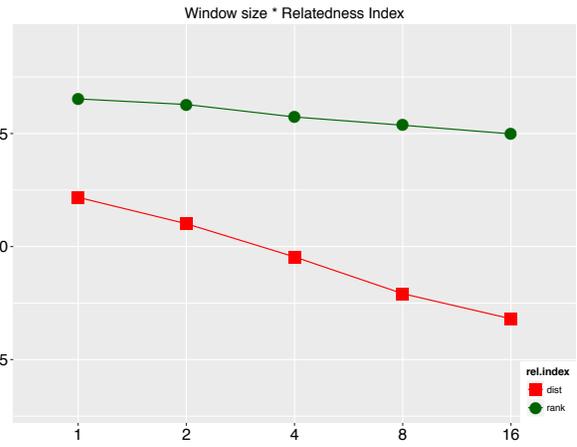


Figure 3.19

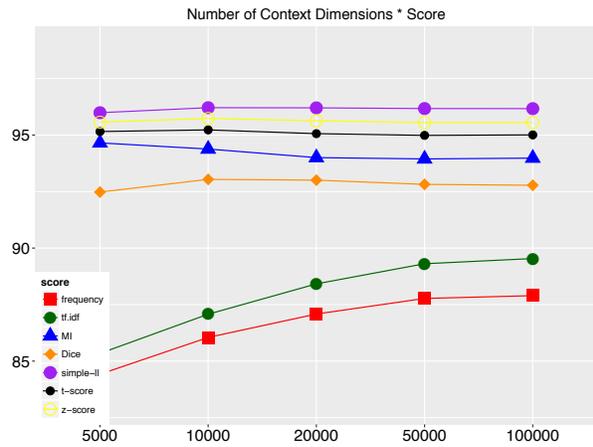


Figure 3.20

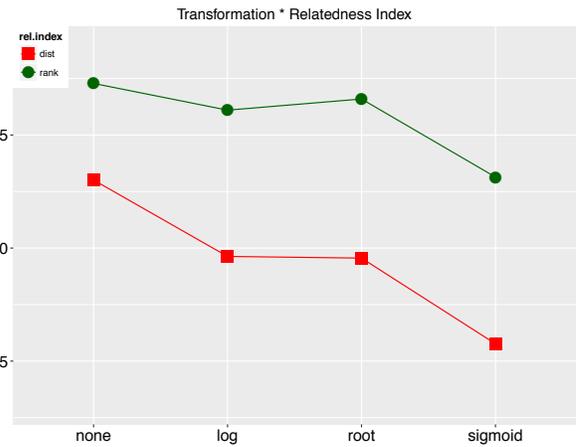


Figure 3.21

### 3.10.3 Interactions: reduced

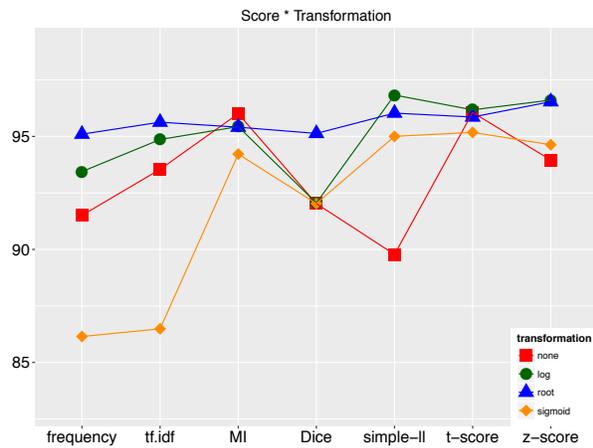


Figure 3.22

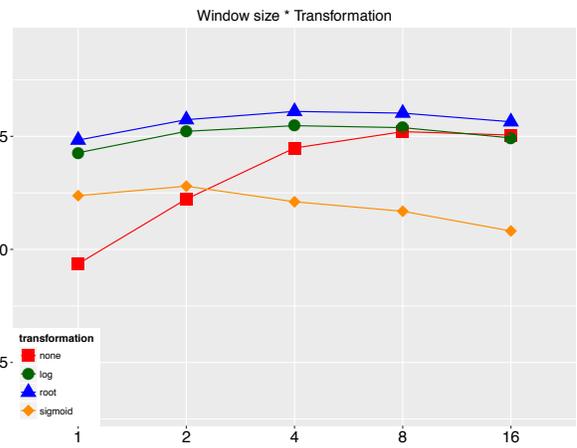


Figure 3.23

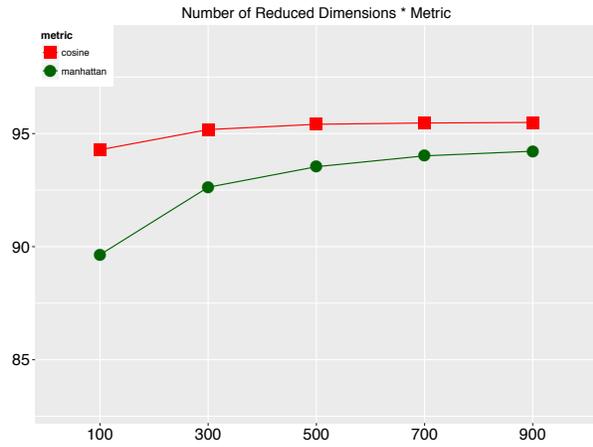


Figure 3.24

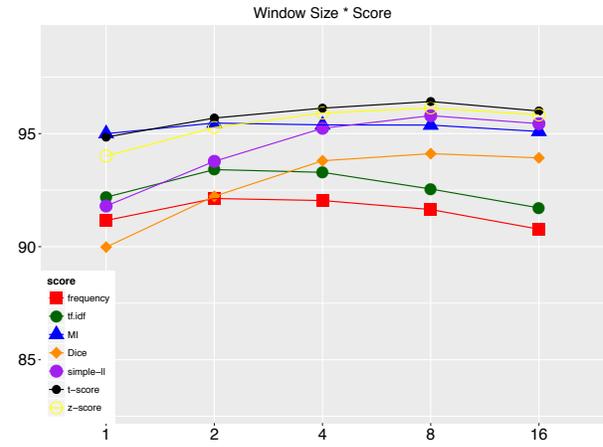


Figure 3.25

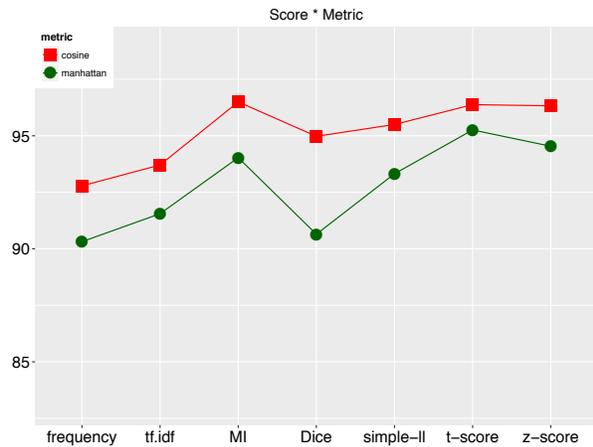


Figure 3.26

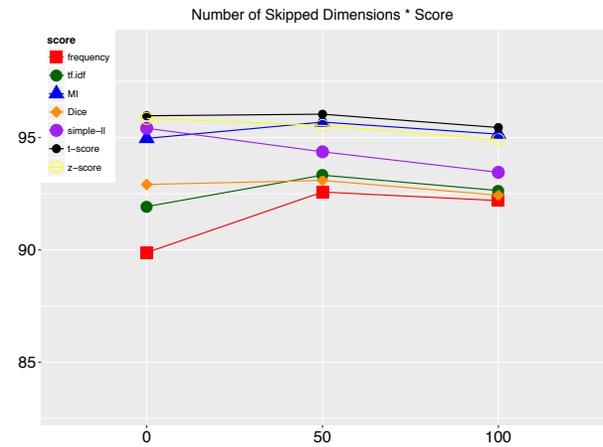


Figure 3.27

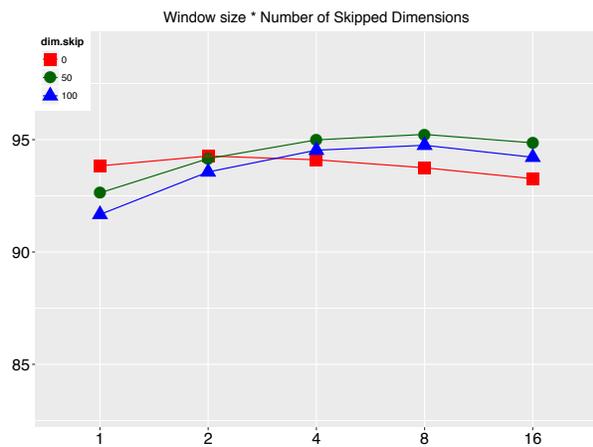


Figure 3.28

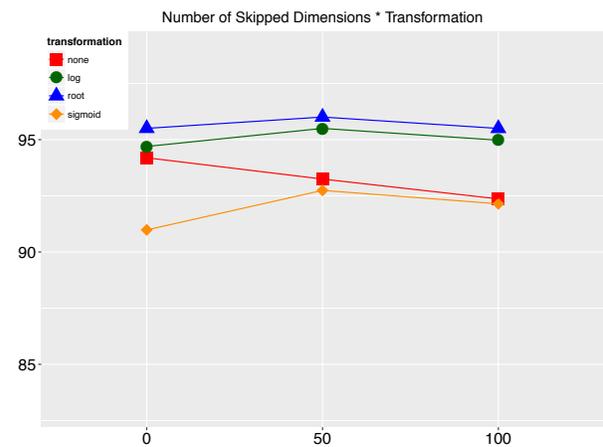


Figure 3.29

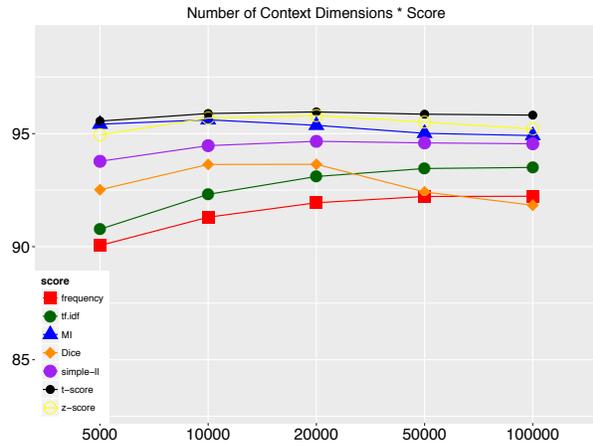


Figure 3.30

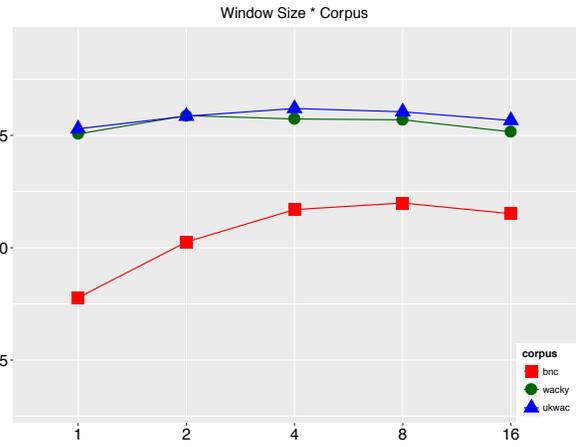


Figure 3.31

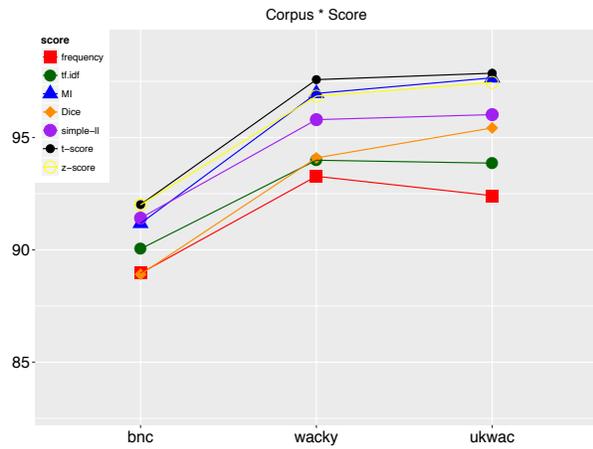


Figure 3.32

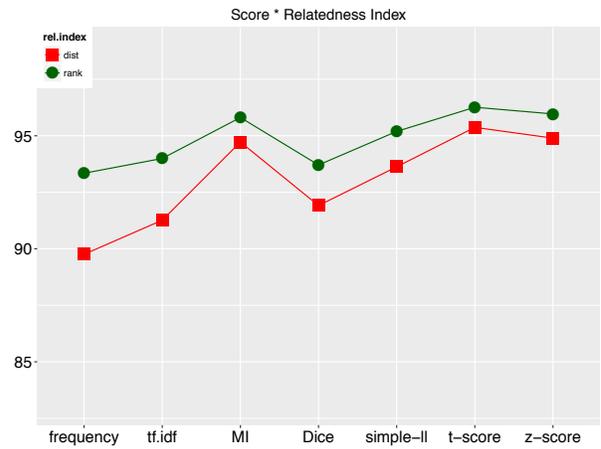


Figure 3.33

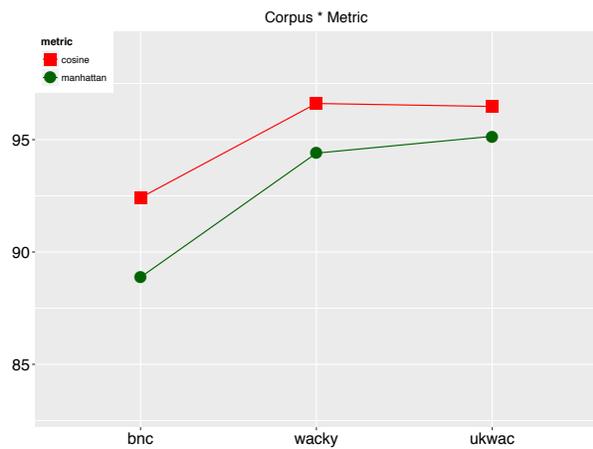


Figure 3.34

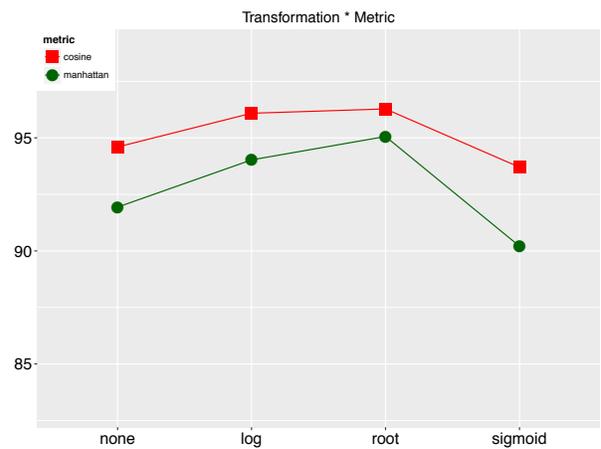


Figure 3.35

## 3.11 FPA

### 3.11.1 Main Effects

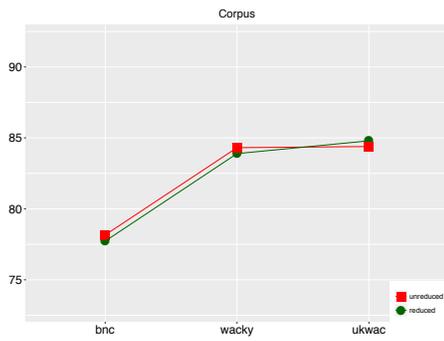


Figure 3.1

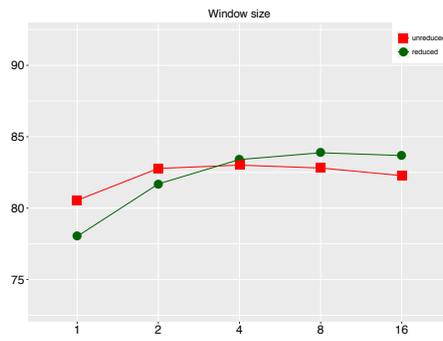


Figure 3.2

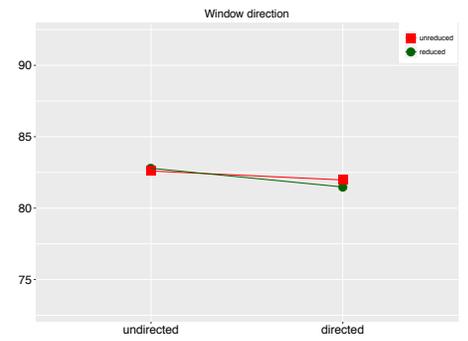


Figure 3.3

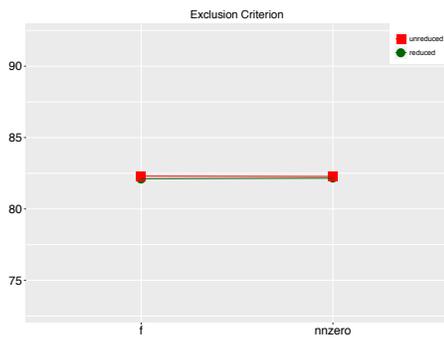


Figure 3.4

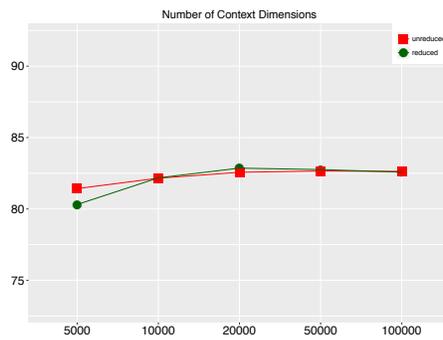


Figure 3.5

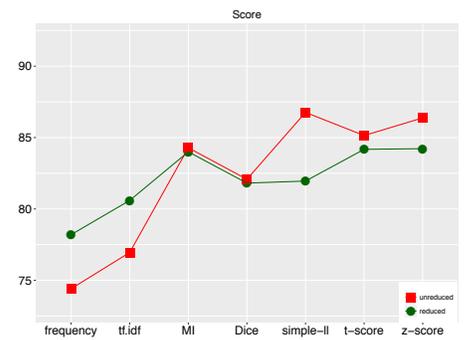


Figure 3.6

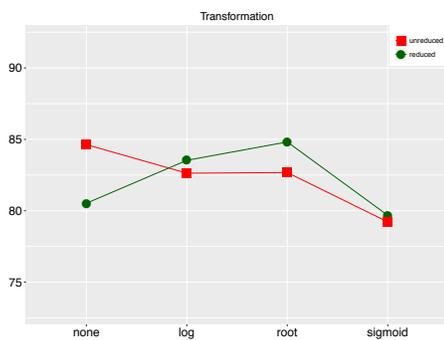


Figure 3.7

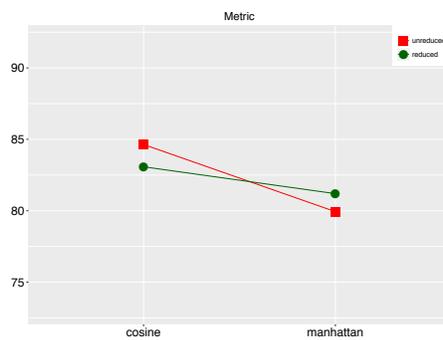


Figure 3.8

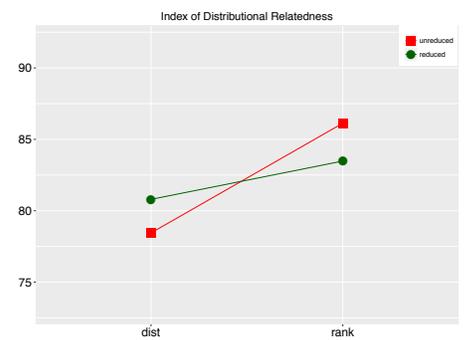


Figure 3.9

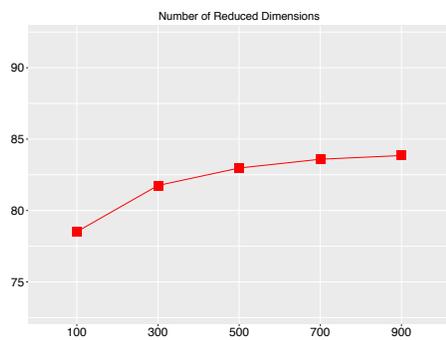


Figure 3.10

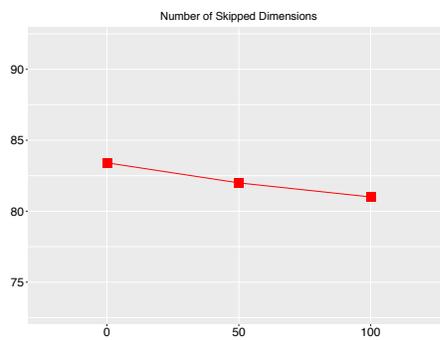


Figure 3.11

### 3.11.2 Interactions: unreduced

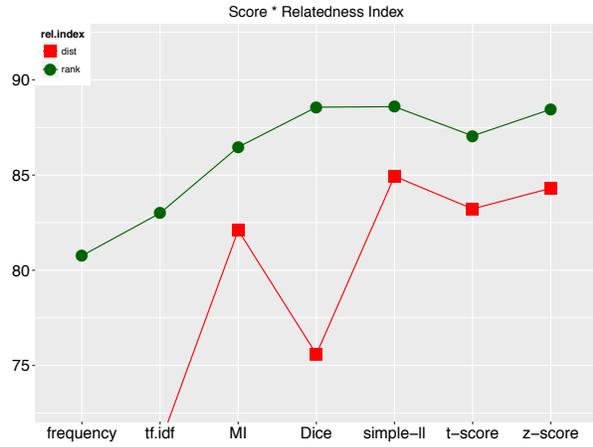


Figure 3.12

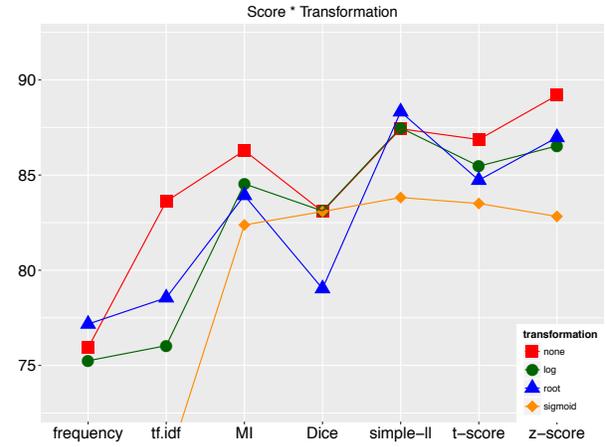


Figure 3.13

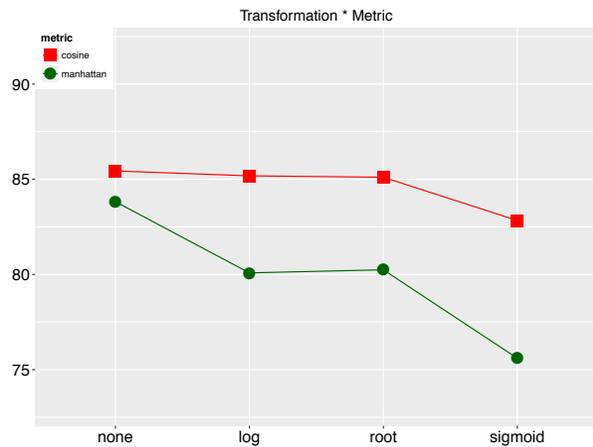


Figure 3.14

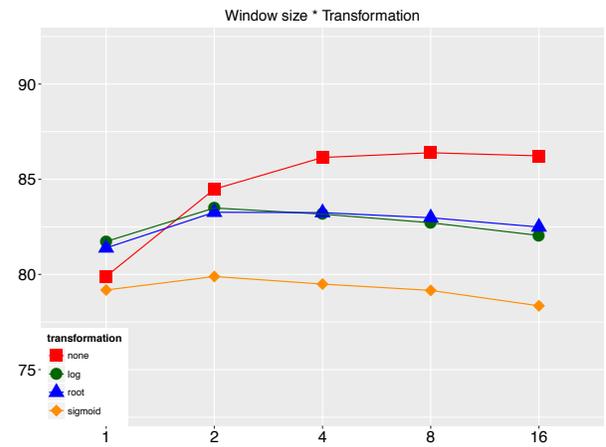


Figure 3.15

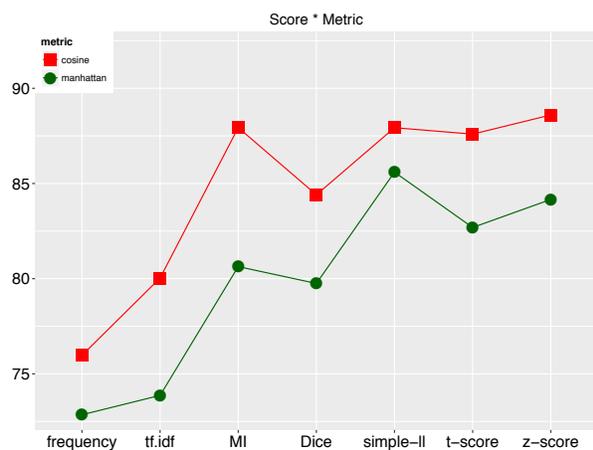


Figure 3.16

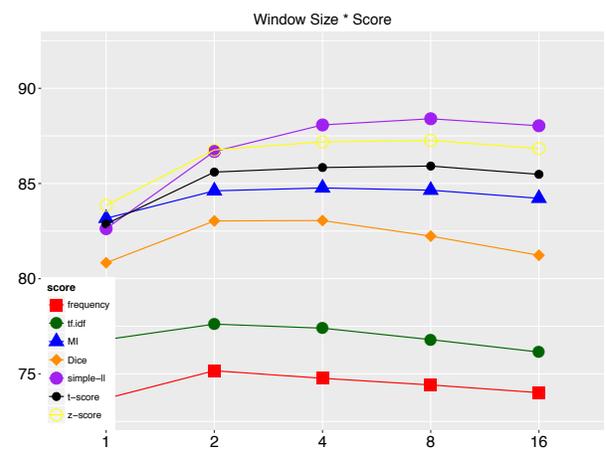


Figure 3.17

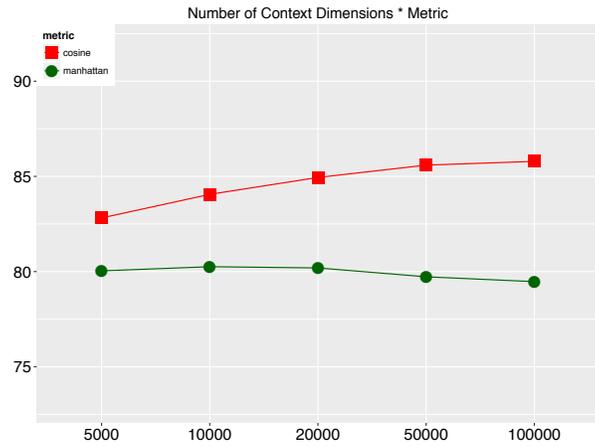


Figure 3.18

### 3.11.3 Interactions: reduced

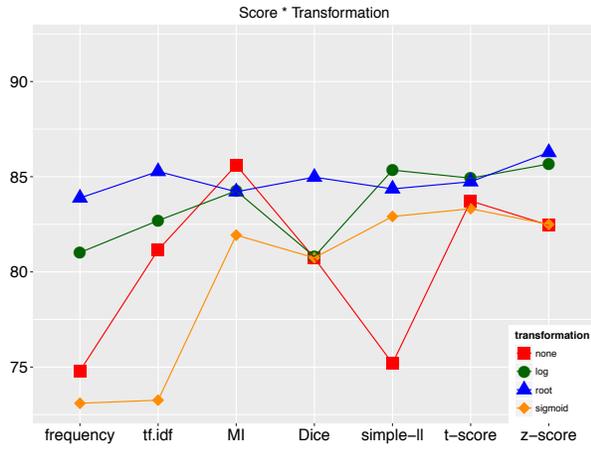


Figure 3.19

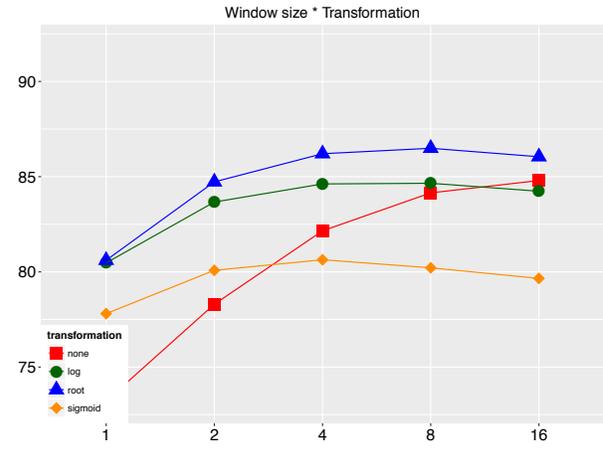


Figure 3.20

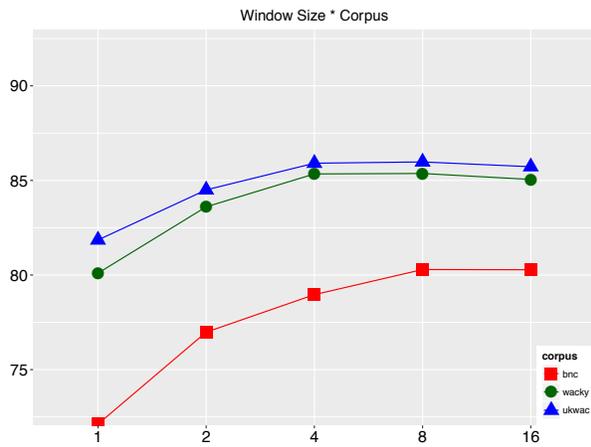


Figure 3.21

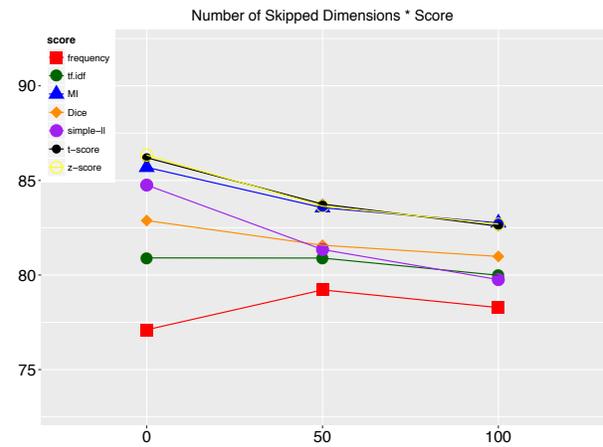


Figure 3.22

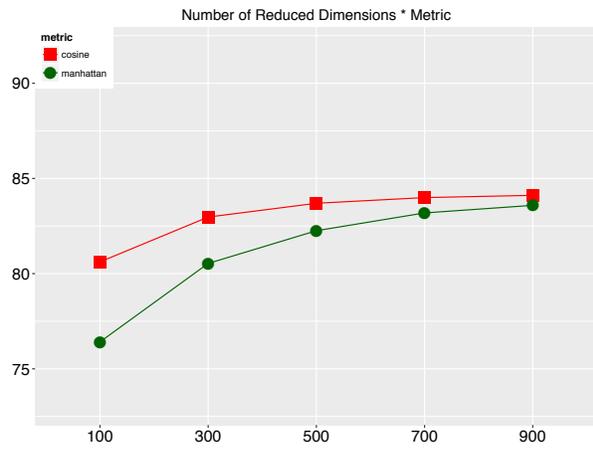


Figure 3.23

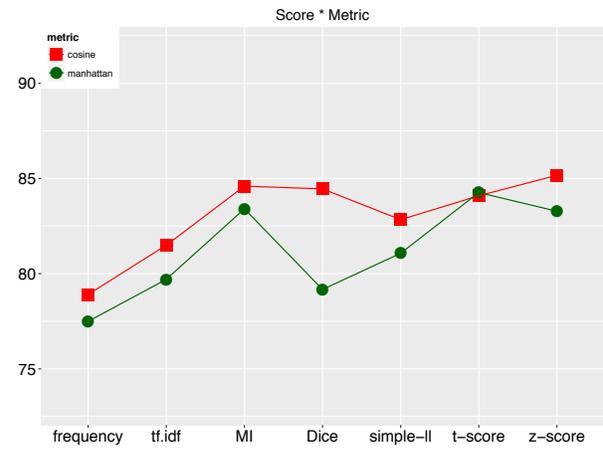


Figure 3.24

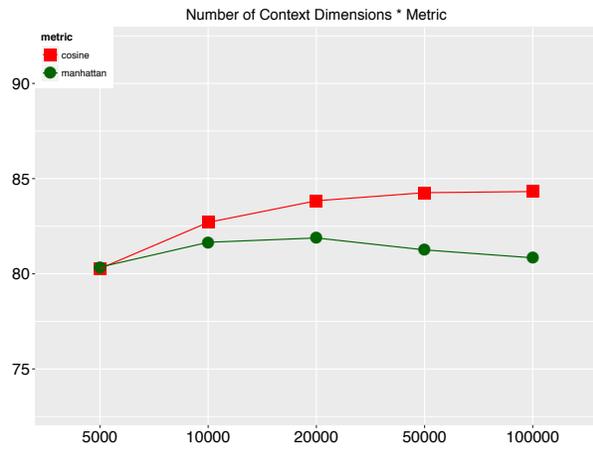


Figure 3.25

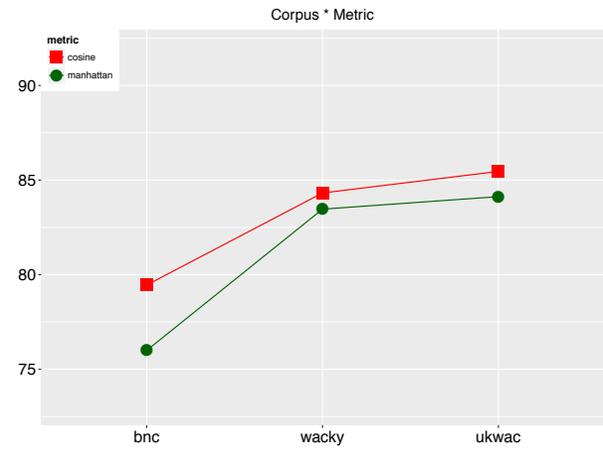


Figure 3.26

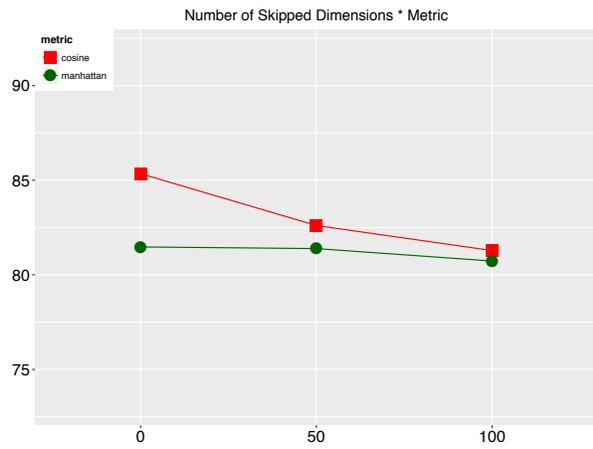


Figure 3.27

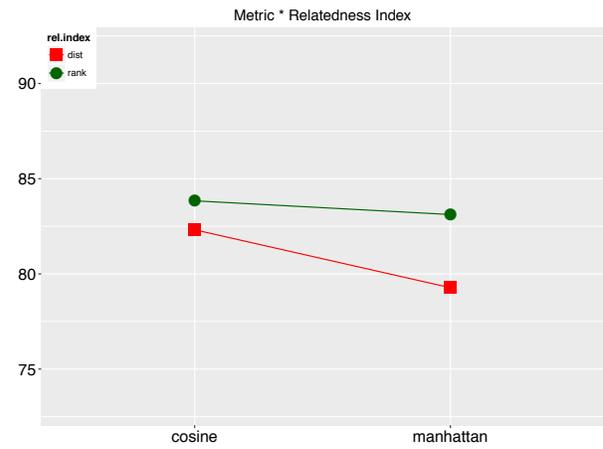


Figure 3.28

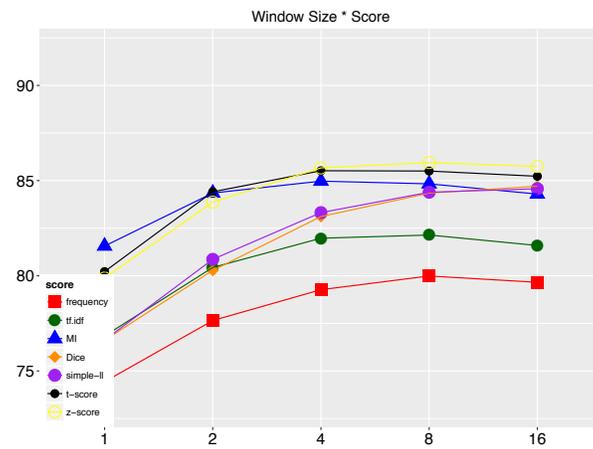


Figure 3.29

## 3.12 BPA

### 3.12.1 Main Effects

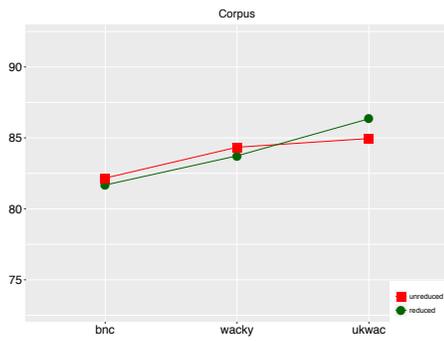


Figure 3.1

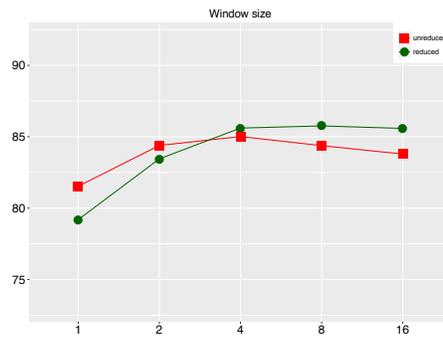


Figure 3.2

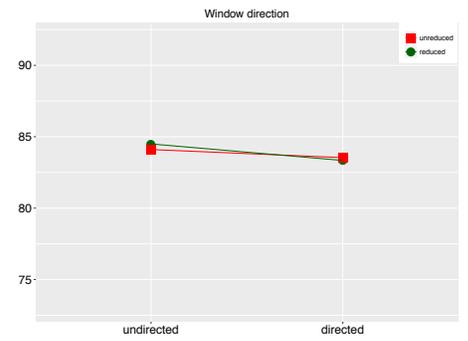


Figure 3.3

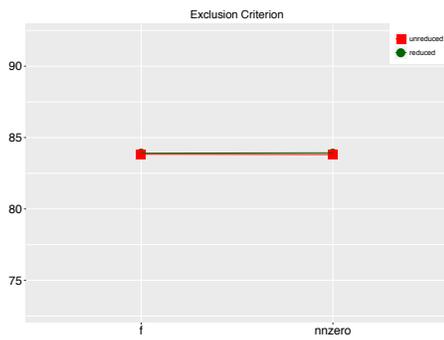


Figure 3.4

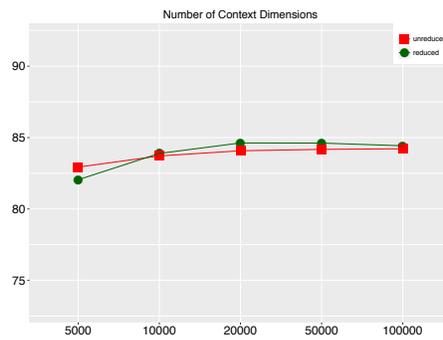


Figure 3.5

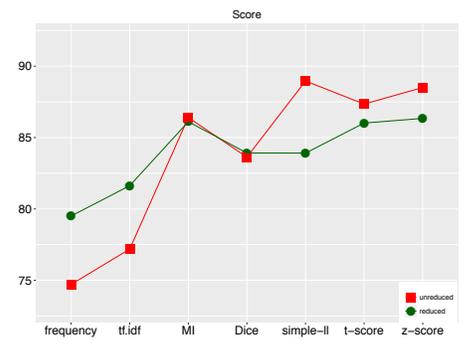


Figure 3.6

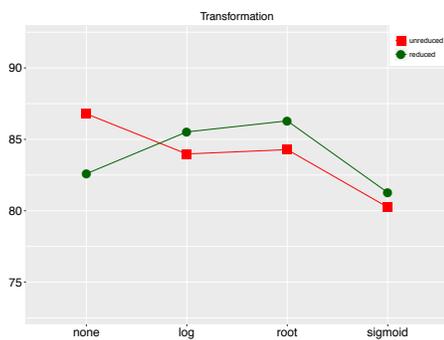


Figure 3.7

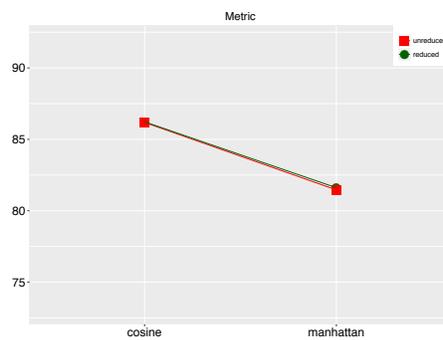


Figure 3.8

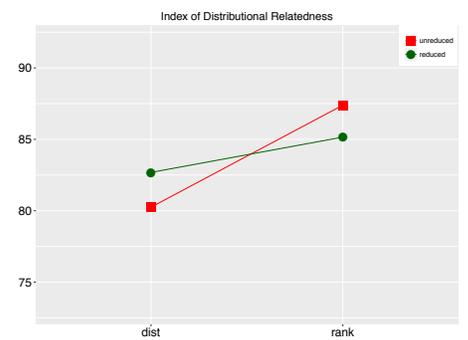


Figure 3.9

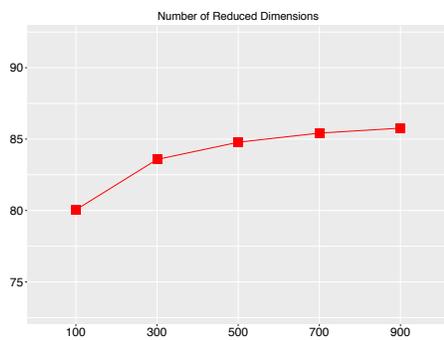


Figure 3.10

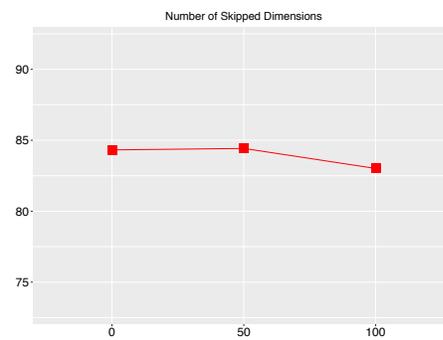


Figure 3.11

### 3.12.2 Interactions: unreduced

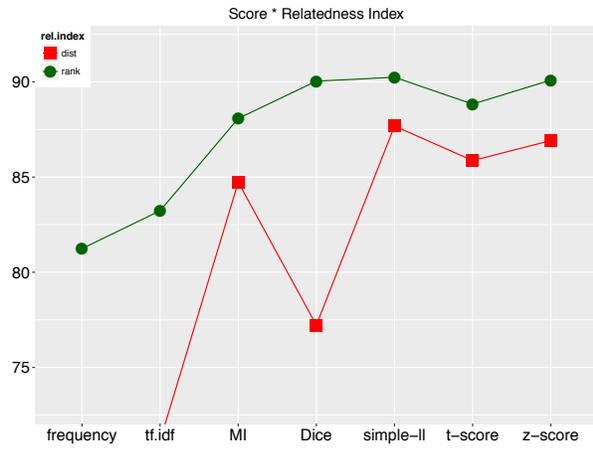


Figure 3.12

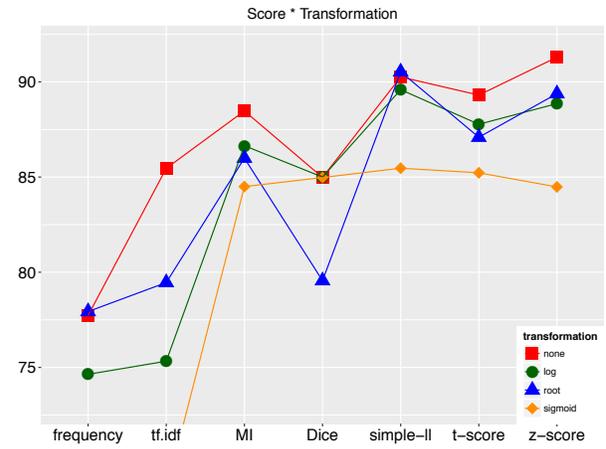


Figure 3.13

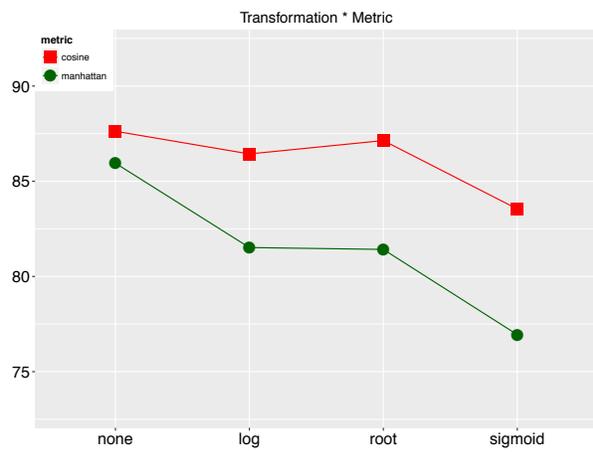


Figure 3.14

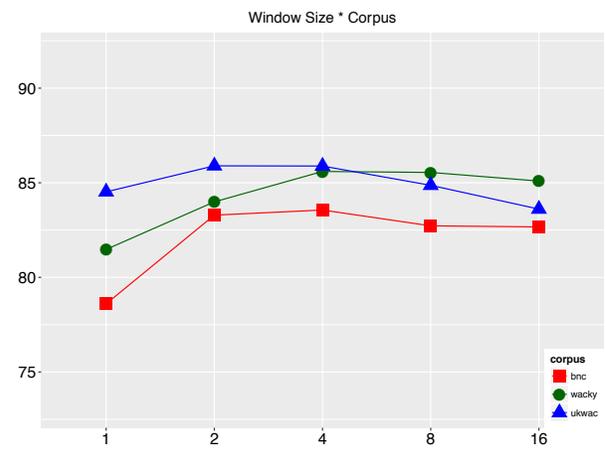


Figure 3.15

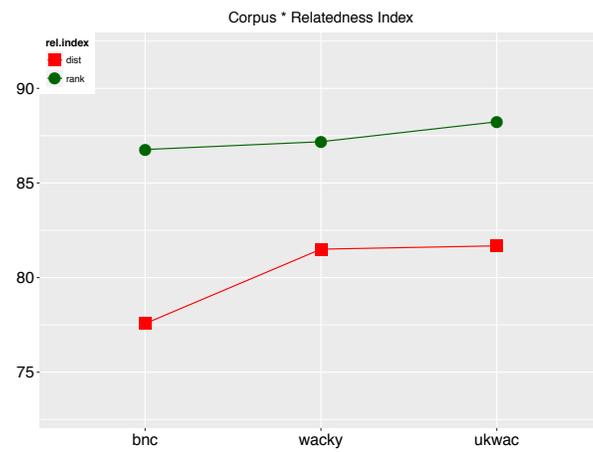


Figure 3.16

### 3.12.3 Interactions: reduced

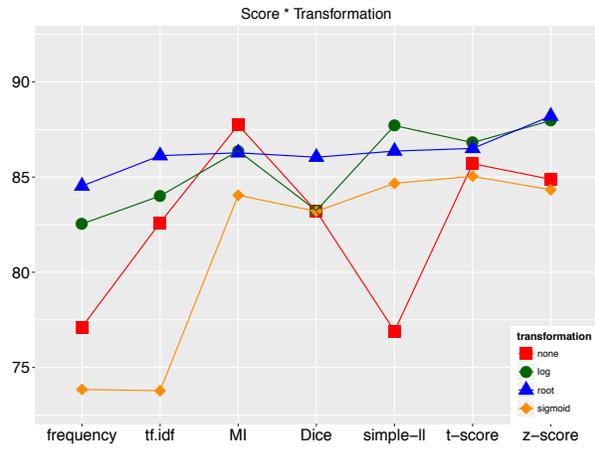


Figure 3.17

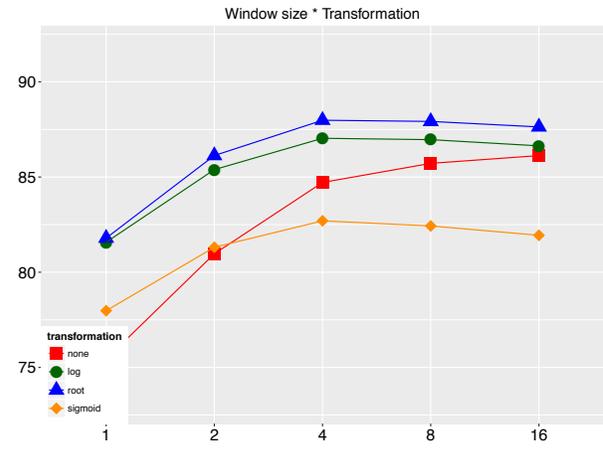


Figure 3.18

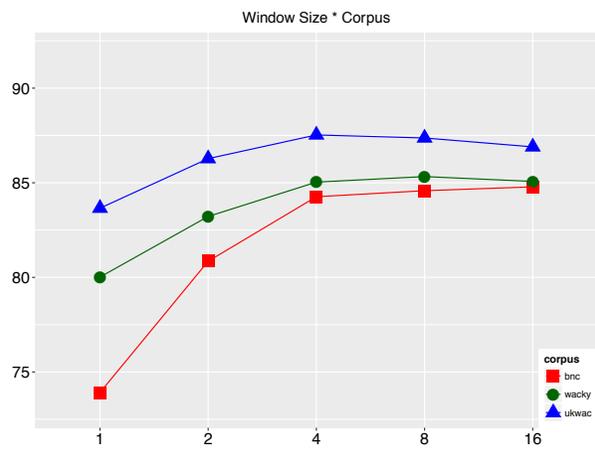


Figure 3.19

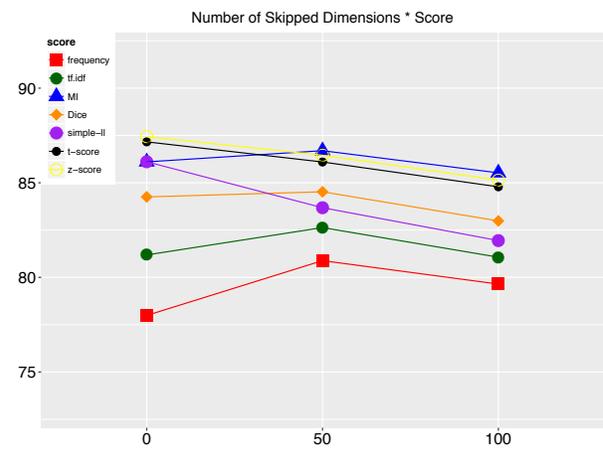


Figure 3.20

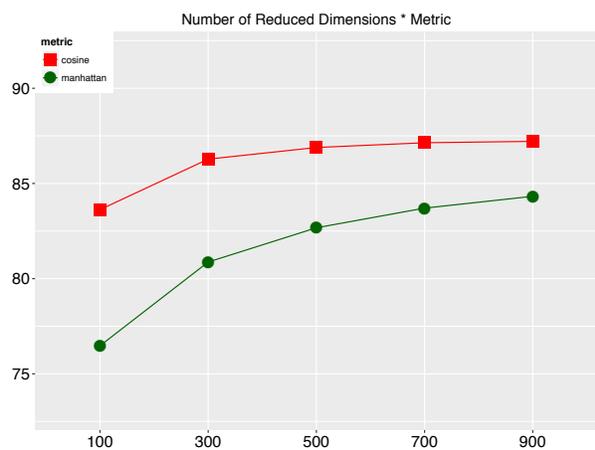


Figure 3.21

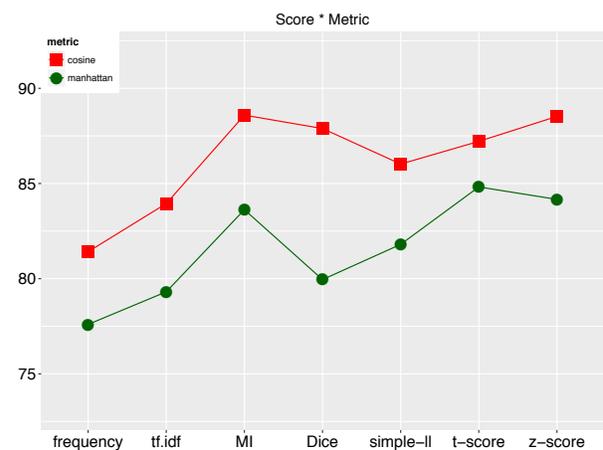


Figure 3.22

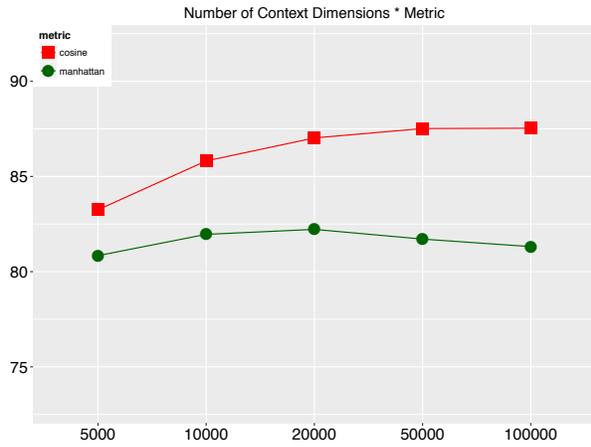


Figure 3.23

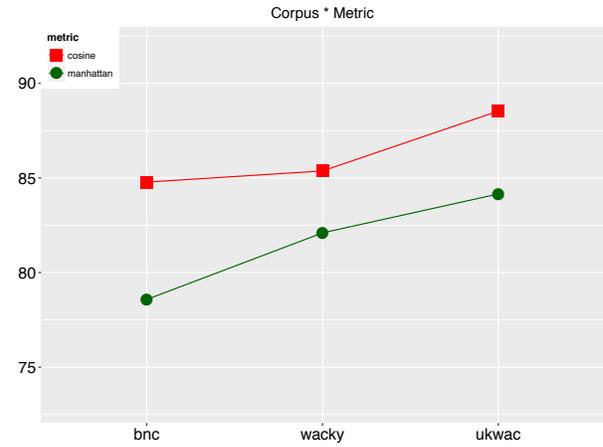


Figure 3.24

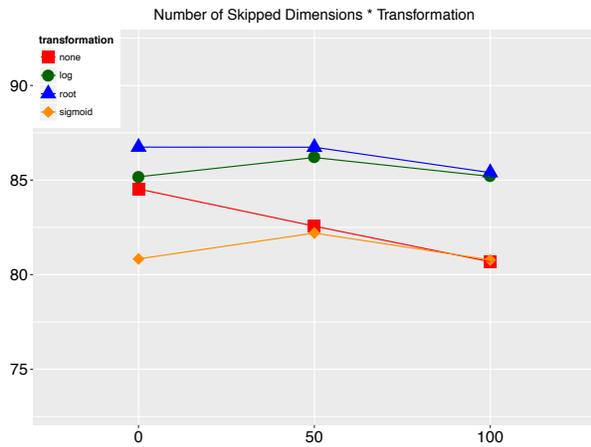


Figure 3.25

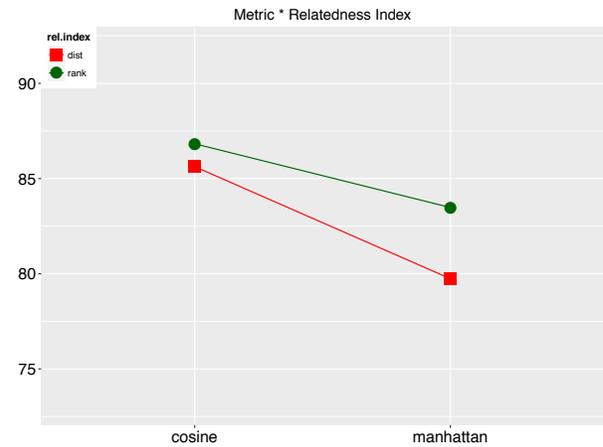


Figure 3.26

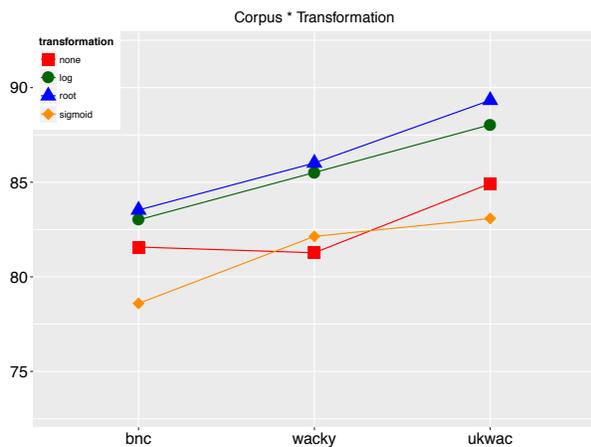


Figure 3.27

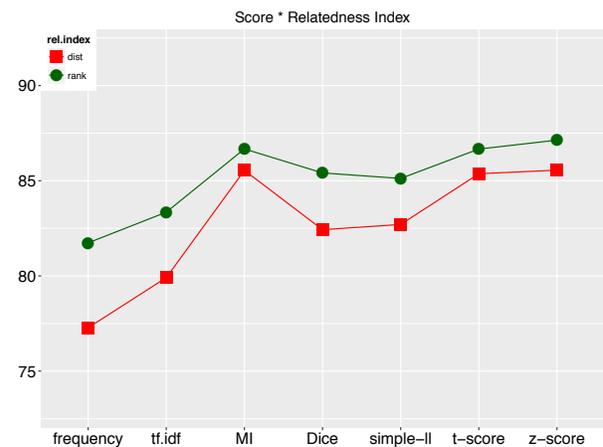


Figure 3.28

### 3.13 GEK

#### 3.13.1 Main Effects

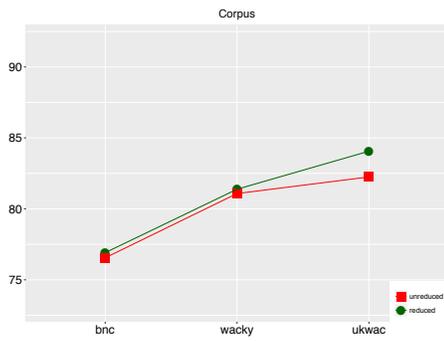


Figure 3.1

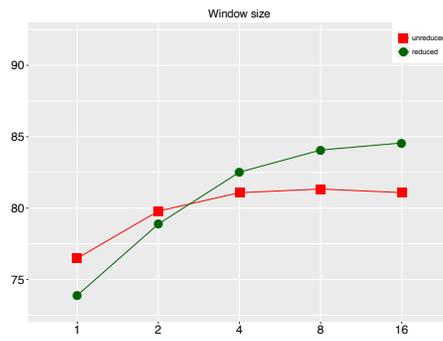


Figure 3.2

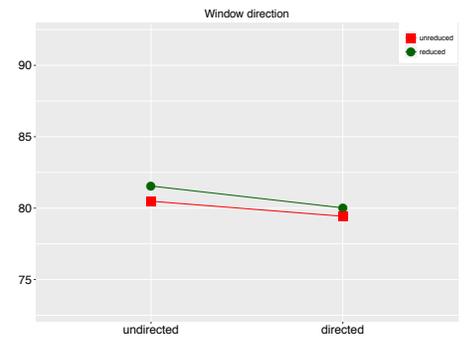


Figure 3.3

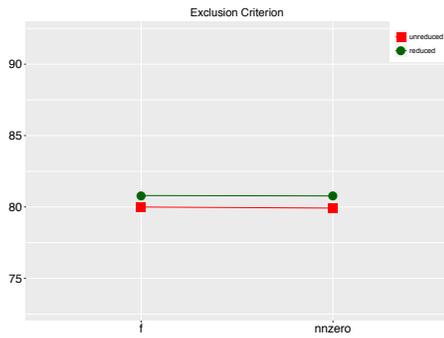


Figure 3.4

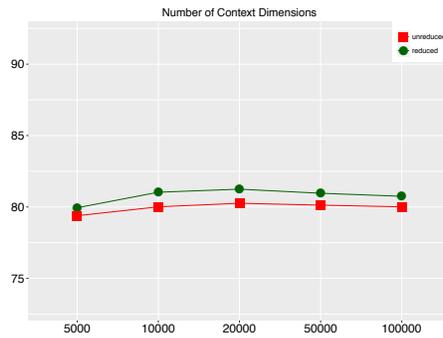


Figure 3.5

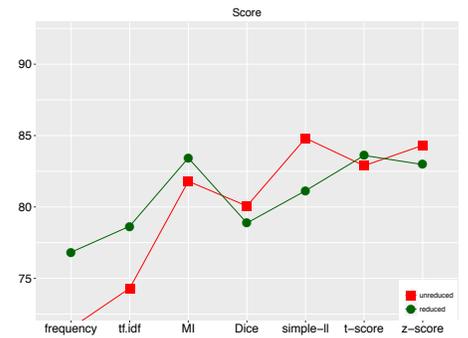


Figure 3.6

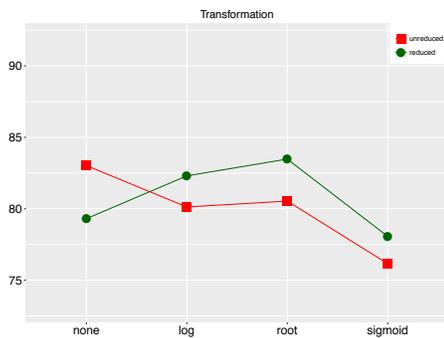


Figure 3.7

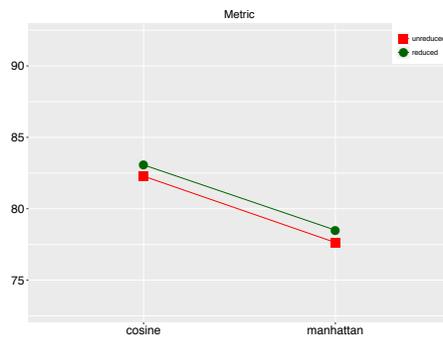


Figure 3.8

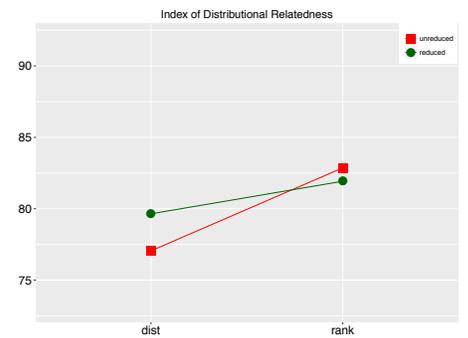


Figure 3.9

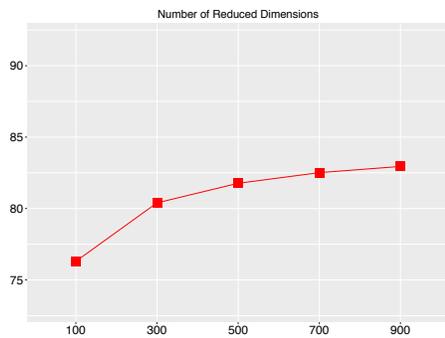


Figure 3.10

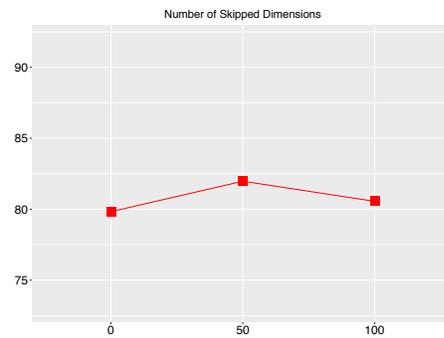


Figure 3.11

### 3.13.2 Interactions: unreduced

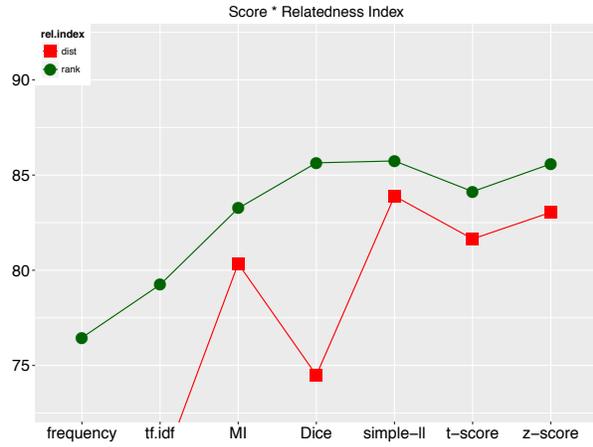


Figure 3.12

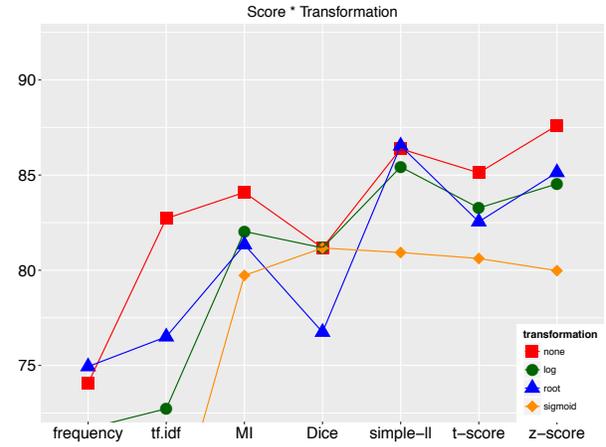


Figure 3.13

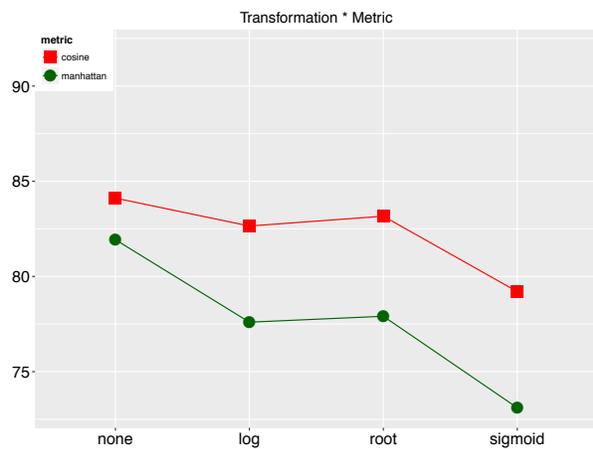


Figure 3.14

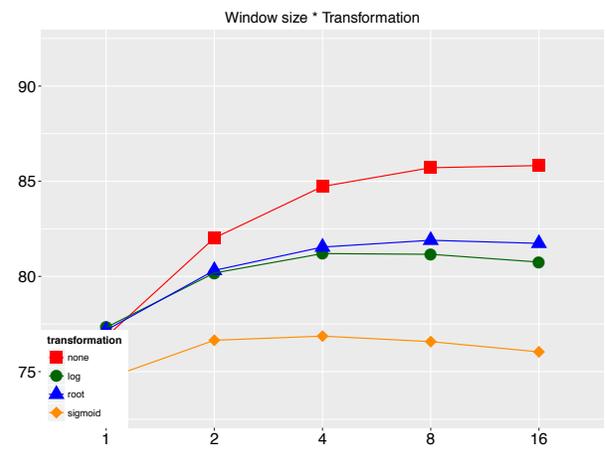


Figure 3.15

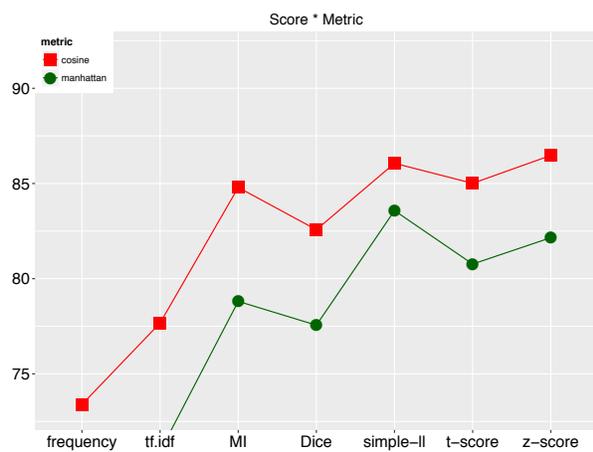


Figure 3.16

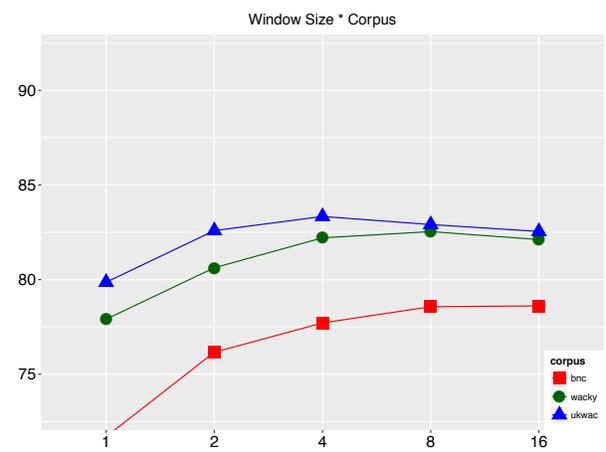


Figure 3.17

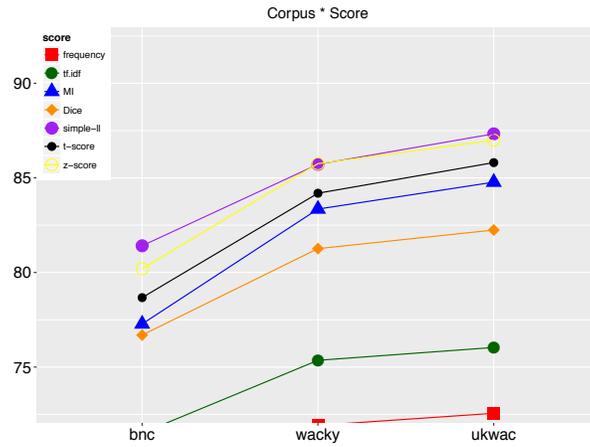


Figure 3.18

### 3.13.3 Interactions: reduced

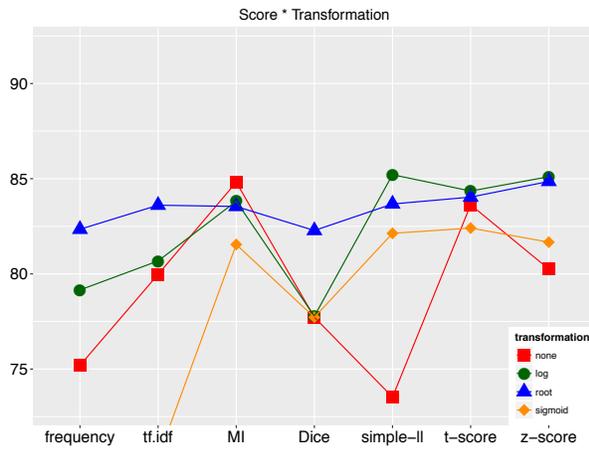


Figure 3.19

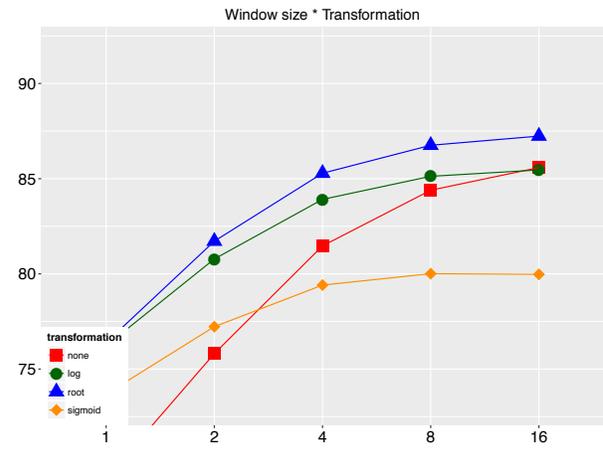


Figure 3.20

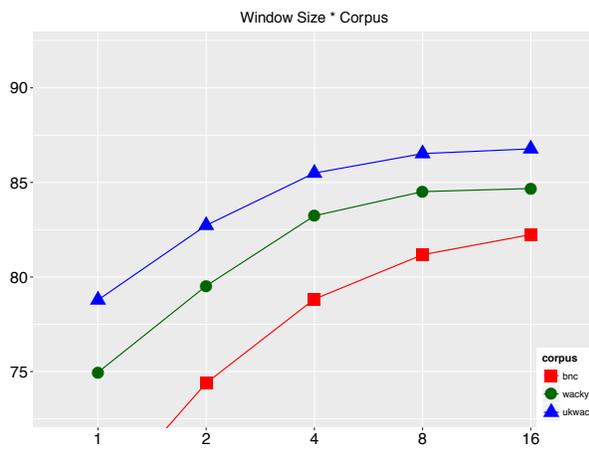


Figure 3.21

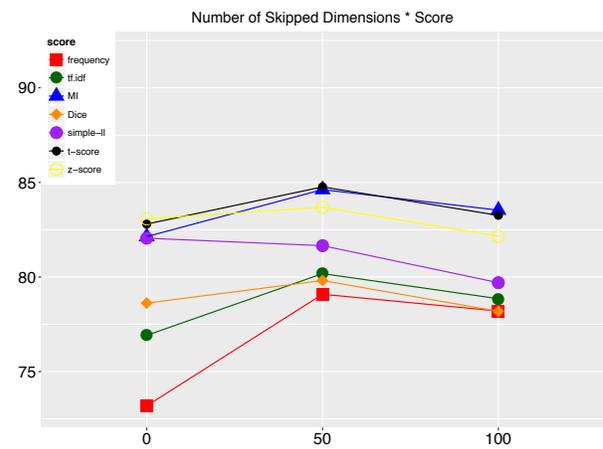


Figure 3.22

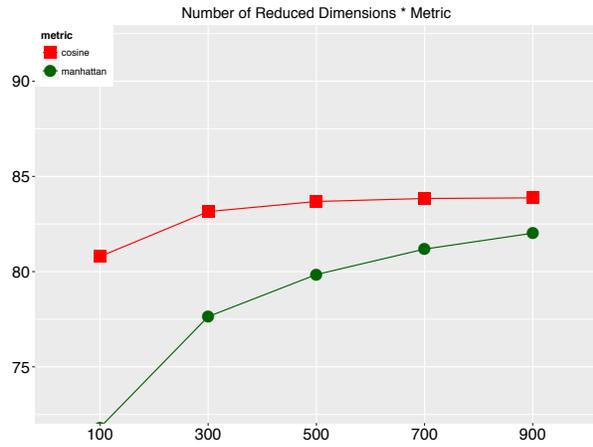


Figure 3.23

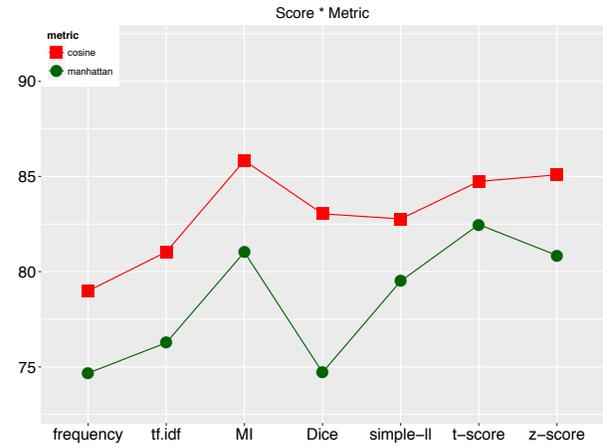


Figure 3.24

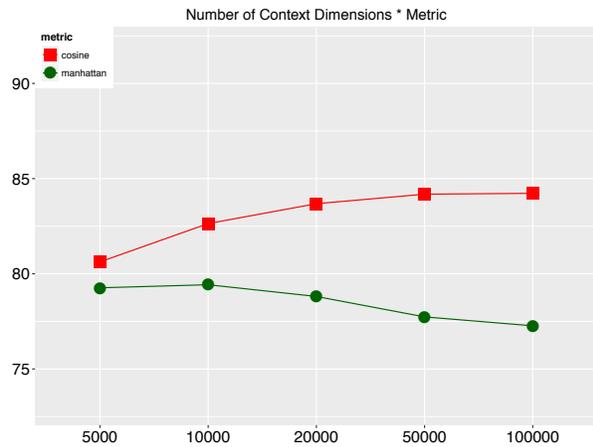


Figure 3.25

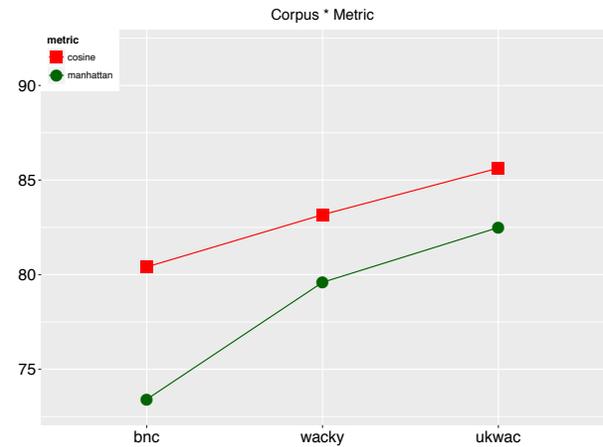


Figure 3.26

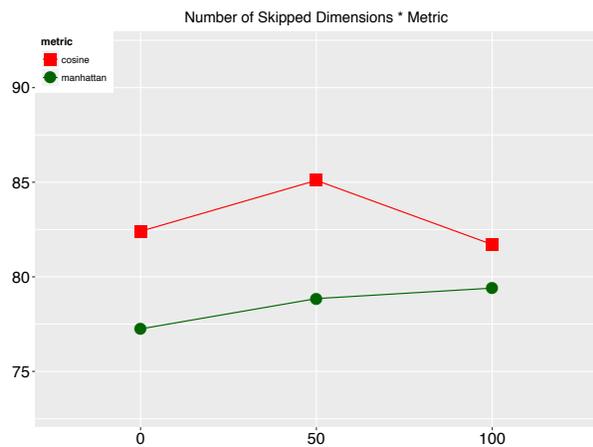


Figure 3.27

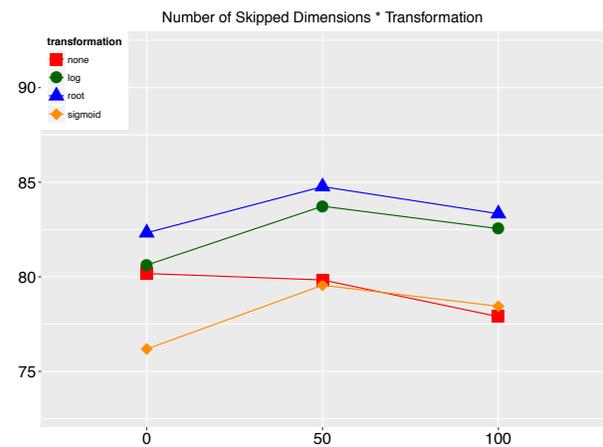


Figure 3.28

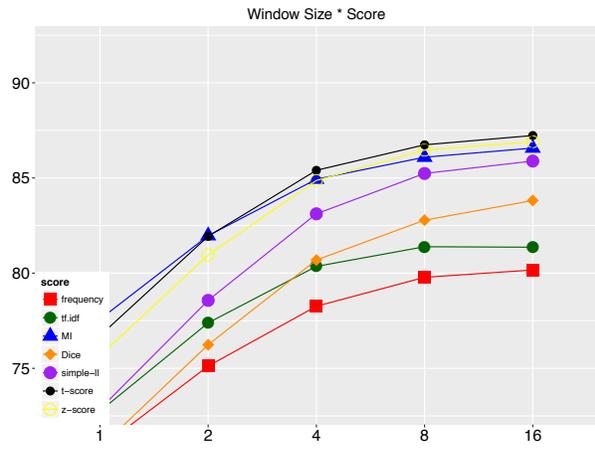


Figure 3.29

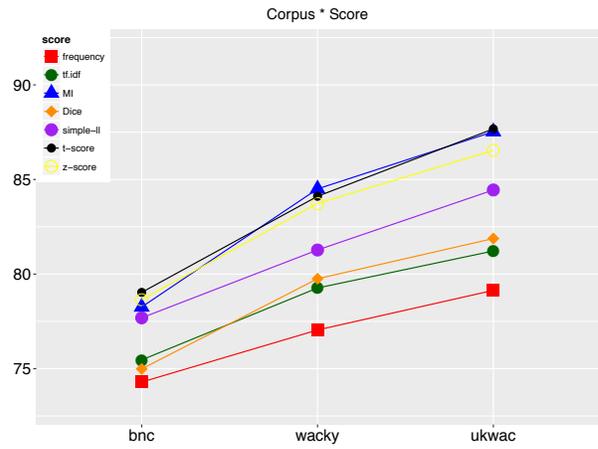


Figure 3.30

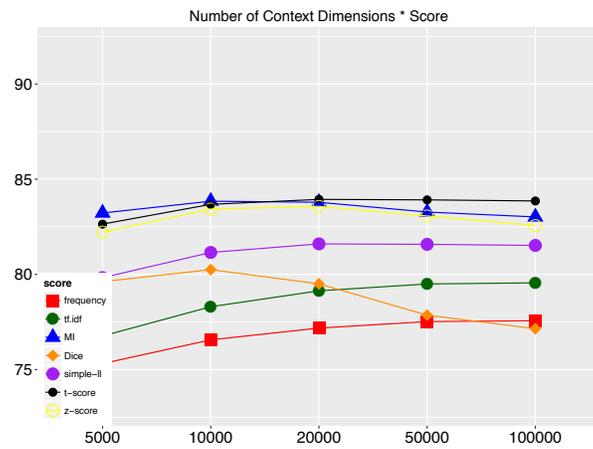


Figure 3.31

## 4 Best models

### 4.1 TOEFL

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	accuracy
ukwac	2	undirected	20000	nnzero	MI	none	cosine	rank	87.50
ukwac	2	undirected	5000	f	simple-ll	log	cosine	dist	87.50
ukwac	4	undirected	20000	f	simple-ll	none	manhattan	rank	87.50
ukwac	4	undirected	20000	nnzero	simple-ll	none	manhattan	rank	87.50

Table 4.1: TOEFL, unreduced, best models – 6 runs tied for best result (4 hand-picked examples shown)

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	accuracy
ukwac	2	undirected	f	5000	MI	none	cosine	rank	900	100	98.75
ukwac	4	directed	f	50000	t-score	log	cosine	rank	900	100	98.75
ukwac	4	undirected	f	50000	t-score	root	cosine	dist	900	100	98.75
ukwac	4	directed	f	5000	simple-ll	log	cosine	dist	900	100	98.75

Table 4.2: TOEFL, reduced, best models – 23 models tied for best result (4 hand-picked examples shown)

### 4.2 Ratings

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	r
wacky	4	undirected	100000	f	simple-ll	none	manhattan	rank	0.88
wacky	4	undirected	100000	nnzero	simple-ll	none	manhattan	rank	0.88
wacky	4	undirected	100000	f	simple-ll	root	cosine	rank	0.87
wacky	4	undirected	100000	f	z-score	none	cosine	rank	0.86

Table 4.3: RG65 dataset, unreduced, best models – 2 models tied for best  $r$ , 2 additional hand-picked models with similar performance are shown

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	r
ukwac	16	undirected	nnzero	20000	MI	none	cosine	rank	700	100	0.89
ukwac	8	directed	f	20000	MI	none	cosine	rank	700	100	0.89
wacky	4	directed	nnzero	50000	simple-ll	log	cosine	rank	700	50	0.89
wacky	4	undirected	f	100000	z-score	log	cosine	rank	900	50	0.89

Table 4.4: RG65 dataset, reduced, best models – 19 models tied for best result (4 hand-picked examples shown)

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	r
wacky	16	undirected	100000	f	z-score	none	cosine	rank	0.73
wacky	16	undirected	100000	nnzero	z-score	none	cosine	rank	0.73
ukwac	16	undirected	100000	nnzero	z-score	none	cosine	rank	0.70
wacky	16	directed	100000	f	simple-ll	root	cosine	rank	0.71

Table 4.5: WS353 dataset, unreduced, best models – 2 models tied for best  $r$ , 2 additional hand-picked models with similar performance shown

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	r
wacky	16	directed	f	5000	MI	none	manhattan	rank	900	50	0.73
wacky	16	undirected	f	5000	MI	none	manhattan	rank	900	50	0.72
wacky	16	undirected	f	5000	z-score	log	manhattan	rank	900	50	0.72
wacky	16	directed	f	10000	z-score	root	manhattan	rank	900	50	0.72

Table 4.6: WS353 dataset, reduced, best model – 3 additional hand-picked models with similar performance are shown

### 4.3 Clustering

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	red.dim	dim.skip	purity
wacky	1	directed	f	50000	MI	none	cosine	rank			0.73
wacky	1	directed	f	50000	z-score	log	cosine	rank			0.73
wacky	1	undirected	f	10000	z-score	log	cosine	rank			0.73
wacky	1	undirected	f	100000	simple-ll	log	cosine	rank			0.73

Table 4.7: AP dataset, unreduced, best models – 7 models tied for best result (4 hand-picked examples shown)

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	purity
ukwac	4	directed	nnzero	10000	t-score	log	manhattan	rank	900	50	0.76
wacky	1	directed	nnzero	10000	z-score	log	manhattan	rank	900	50	0.75
wacky	1	undirected	f	20000	simple-ll	log	manhattan	rank	900	50	0.75
wacky	2	directed	f	100000	z-score	log	cosine	rank	500	0	0.75

Table 4.8: AP dataset, reduced – best model (plus 3 additional hand-picked models)

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	red.dim	dim.skip	purity
ukwac	16	directed	nnzero	5000	simple-ll	none	manhattan	dist			0.99
wacky	4	undirected	f	100000	MI	none	cosine	rank			0.99

Table 4.9: BATTIG dataset, unreduced – best models

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	purity
ukwac	1	undirected	f	20000	Dice	root	manhattan	rank	300	100	0.99
ukwac	2	undirected	f	100000	freq	log	cosine	dist	300	50	0.99
wacky	16	undirected	f	50000	z-score	log	manhattan	dist	500	50	0.99
wacky	8	undirected	f	10000	Dice	root	manhattan	rank	500	0	0.99

Table 4.10: BATTIG dataset, reduced, best models – 1037 models tied for best result (4 hand-picked examples shown)

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	red.dim	dim.skip	purity
wacky	1	undirected	50000	f	z-score	none	manhattan	dist			0.93
wacky	1	undirected	50000	nnzero	z-score	none	manhattan	dist			0.93
wacky	2	directed	100000	f	z-score	none	manhattan	dist			0.93
wacky	2	directed	100000	nnzero	z-score	none	manhattan	dist			0.93

Table 4.11: ESSLLI dataset, unreduced, best models – 5 models tied for best results, 4 hand-picked examples shown

### 4.4 Semantic Priming

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	purity
wacky	16	directed	nnzero	50000	z-score	none	manhattan	dist	900	0	0.98
ukwac	1	directed	nnzero	100000	simple-ll	log	cosine	dist	100	50	0.95
ukwac	2	undirected	f	50000	tf.idf	none	manhattan	dist	700	0	0.95
wacky	8	undirected	f	100000	tf.idf	root	manhattan	rank	500	0	0.95

Table 4.12: ESLLI dataset, reduced – best model (plus 3 additional hand-picked models)

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	purity
bnc	1	undirected	100000	f	z-score	log	cosine	rank	0.97
bnc	2	undirected	10000	nnzero	z-score	root	cosine	rank	0.97
bnc	4	undirected	100000	f	z-score	none	manhattan	rank	0.97
bnc	4	undirected	50000	f	z-score	none	manhattan	rank	0.97

Table 4.13: MITCHELL dataset, unreduced, best models – 6 models tied for best results, 4 hand-picked examples shown

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	purity
bnc	2	undirected	nnzero	100000	simple-ll	log	cosine	rank	900	0	0.97
bnc	2	undirected	f	50000	simple-ll	log	cosine	rank	700	0	0.97
bnc	2	undirected	nnzero	50000	simple-ll	log	cosine	rank	900	0	0.97

Table 4.14: MITCHELL dataset, reduced, best models – 3 models tied for best result

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	accuracy
ukwac	2	directed	5000	nnzero	z-score	root	cosine	rank	98.39
ukwac	2	directed	10000	f	simple-ll	log	cosine	rank	98.17
wacky	2	directed	20000	nnzero	z-score	log	cosine	rank	98.17
wacky	2	directed	20000	nnzero	z-score	root	cosine	rank	98.17

Table 4.15: SYN, unreduced, best model – (plus 3 additional hand-picked models)

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	accuracy
ukwac	2	directed	100000	nnzero	MI	root	cosine	rank	100	900	99.08
ukwac	8	undirected	20000	f	MI	root	cosine	dist	100	900	99.08
ukwac	8	undirected	20000	f	MI	root	cosine	rank	100	900	99.08

Table 4.16: SYN, reduced, best models

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	accuracy
wacky	8	directed	5000	nnzero	z-score	root	cosine	rank	100.00
ukwac	8	directed	10000	f	z-score	none	manhattan	dist	100.00
wacky	16	undirected	5000	f	simple-ll	log	manhattan	rank	100.00
wacky	8	directed	100000	nnzero	simple-ll	root	cosine	dist	100.00

Table 4.17: ANT, unreduced, best models – 3261 runs tied for best result, 4 hand-picked examples shown

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	accuracy
wacky	16	undirected	20000	f	tf.idf	root	cosine	dist	100	700	100.00
wacky	2	directed	50000	f	z-score	root	cosine	dist	0	100	100.00
ukwac	16	directed	10000	nnzero	MI	none	manhattan	rank	50	700	100.00
ukwac	4	undirected	5000	f	tf.idf	root	manhattan	rank	0	500	100.00

Table 4.18: ANT, reduced, best models – 15345 runs tied for best result, 4 hand-picked examples shown

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	accuracy
wacky	2	undirected	100000	f	t-score	sigmoid	cosine	rank	100.00
ukwac	1	undirected	50000	f	MI	log	cosine	rank	100.00
ukwac	1	directed	20000	nnzero	t-score	root	cosine	rank	100.00
ukwac	1	undirected	10000	nnzero	tf.idf	root	cosine	rank	100.00

Table 4.19: COH, unreduced, best models – 1067 runs tied for best result, 4 hand-picked examples shown

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	accuracy
wacky	2	directed	50000	nnzero	frequency	root	cosine	rank	0	500	100.00
wacky	2	undirected	20000	nnzero	MI	none	cosine	rank	0	300	100.00
wacky	1	undirected	50000	nnzero	MI	log	cosine	rank	0	500	100.00
ukwac	1	undirected	50000	f	Dice	root	manhattan	rank	100	900	100.00

Table 4.20: COH, reduced, best models – 9804 runs tied for best result, 4 hand-picked examples shown

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	accuracy
ukwac	4	undirected	10000	f	z-score	none	cosine	rank	97.92
ukwac	4	directed	100000	f	z-score	none	cosine	rank	97.92
ukwac	4	directed	100000	nnzero	z-score	none	cosine	rank	97.92
ukwac	4	undirected	100000	nnzero	z-score	none	cosine	rank	97.92

Table 4.21: FPA, unreduced, best models – 10 runs tied for best result, 4 hand-picked examples shown

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	accuracy
ukwac	16	directed	20000	f	z-score	root	cosine	rank	100	900	98.61
ukwac	16	undirected	20000	nnzero	z-score	root	cosine	rank	100	900	97.92
ukwac	16	undirected	20000	nnzero	z-score	root	cosine	dist	100	900	97.92
ukwac	8	undirected	50000	nnzero	z-score	none	cosine	rank	0	500	97.92

Table 4.22: FPA, reduced, best model – 3 additional hand-picked models with similar performance are shown

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	accuracy
ukwac	4	directed	10000	nnzero	z-score	none	cosine	rank	97.75
ukwac	8	undirected	100000	f	z-score	none	cosine	rank	97.75
ukwac	8	undirected	100000	f	z-score	none	cosine	dist	97.75
ukwac	8	directed	50000	f	z-score	none	cosine	rank	97.75

Table 4.23: BPA, unreduced, best models – 33 runs tied for best result, 4 hand-picked examples shown

corpus	window	direction	criterion	c.dim	score	transf	metric	rel.ind	red.dim	dim.skip	accuracy
ukwac	16	undirected	100000	f	MI	none	cosine	dist	50	700	98.88
ukwac	4	undirected	50000	f	MI	root	cosine	rank	50	700	98.88
ukwac	4	undirected	100000	f	z-score	log	cosine	dist	50	500	98.88
ukwac	8	directed	50000	nnzero	z-score	log	cosine	rank	50	300	98.88

Table 4.24: BPA, reduced, best models – 181 runs tied for best result, 4 hand-picked examples shown

corpus	window	direction	c.dim	criterion	score	transf	metric	rel.ind	accuracy
ukwac	16	undirected	20000	nnzero	z-score	none	cosine	rank	95.30
wacky	16	directed	100000	f	z-score	none	cosine	rank	95.30
ukwac	16	directed	100000	nnzero	z-score	none	cosine	rank	95.30
ukwac	16	undirected	20000	f	z-score	none	cosine	rank	95.30

Table 4.25: GEK, unreduced, best models – 6 runs tied for best result, 4 hand-picked examples shown

<b>corpus</b>	<b>window</b>	<b>direction</b>	<b>criterion</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>metric</b>	<b>rel.ind</b>	<b>red.dim</b>	<b>dim.skip</b>	<b>accuracy</b>
ukwac	16	directed	10000	f	z-score	log	manhattan	rank	100	900	97.03
ukwac	8	undirected	50000	f	simple-ll	log	cosine	rank	50	700	96.78
ukwac	8	undirected	10000	nnzero	simple-ll	log	manhattan	rank	100	900	96.78
ukwac	4	undirected	20000	nnzero	t-score	none	manhattan	rank	50	700	96.78

Table 4.26: GEK, reduced, best model – 3 additional hand-picked models with similar performance are shown

## **Part II**

# **Syntax-based models**

## 5 Distribution of Performance

### 5.1 Multiple choice: TOEFL

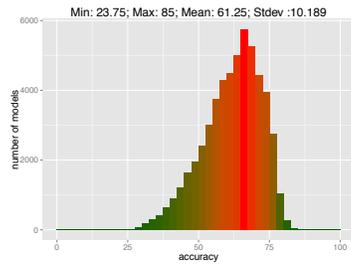


Figure 5.32: Unreduced, filtered

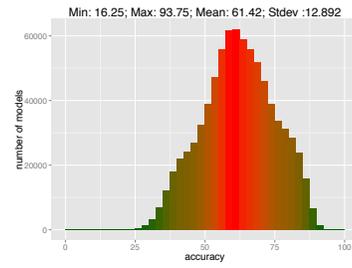


Figure 5.33: Reduced, filtered

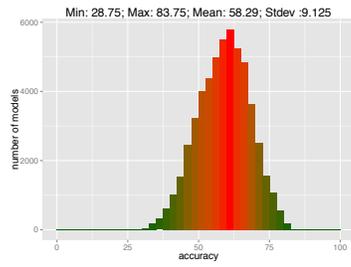


Figure 5.34: Unreduced, typed

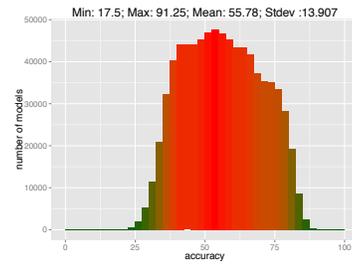


Figure 5.35: Reduced, typed

## 5.2 Prediction of similarity ratings: RG65

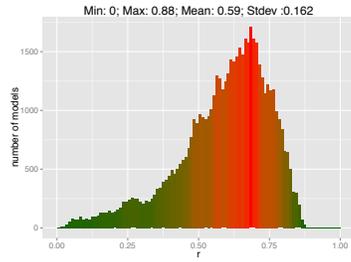


Figure 5.36: Unreduced, filtered

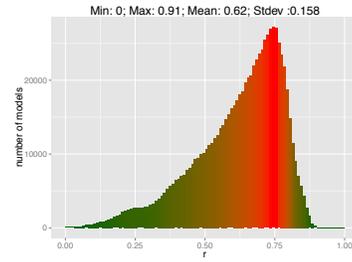


Figure 5.37: Reduced, filtered

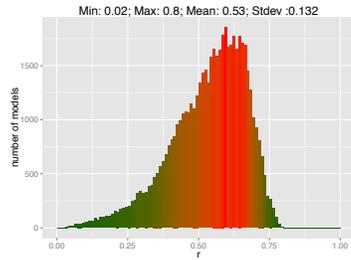


Figure 5.38: Unreduced, typed

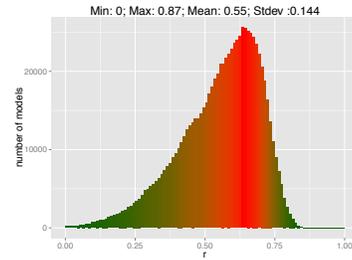


Figure 5.39: Reduced, typed

## 5.3 Prediction of similarity ratings: WS353

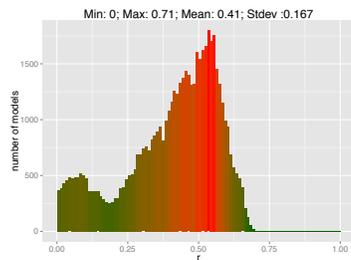


Figure 5.40: Unreduced, filtered

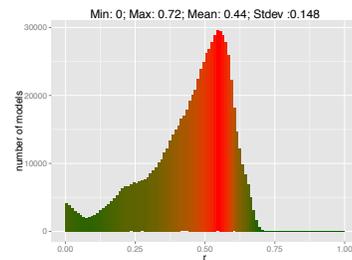


Figure 5.41: Reduced, filtered

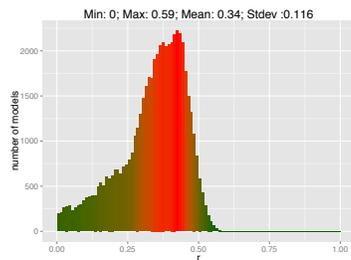


Figure 5.42: Unreduced, typed

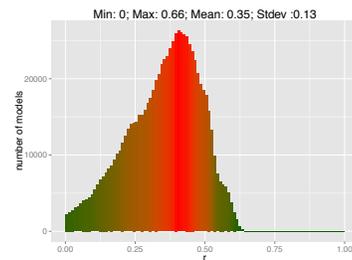


Figure 5.43: Reduced, typed

## 5.4 Clustering: Almuhareb-Poesio

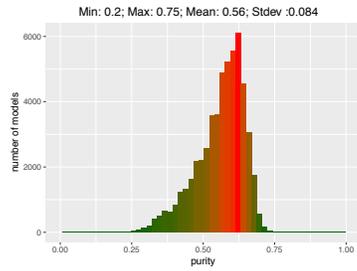


Figure 5.44: Unreduced, filtered

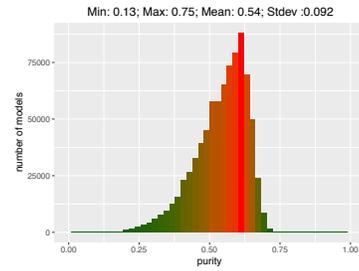


Figure 5.45: Reduced, filtered

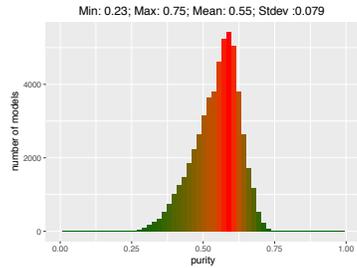


Figure 5.46: Unreduced, typed

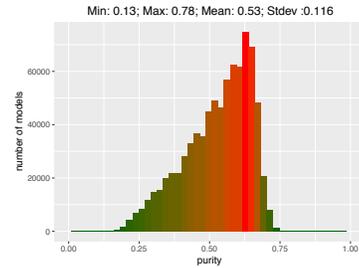


Figure 5.47: Reduced, typed

## 5.5 Clustering: BATTIG

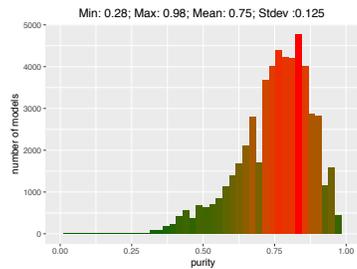


Figure 5.48: Unreduced, filtered

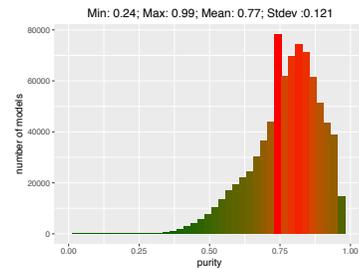


Figure 5.49: Reduced, filtered

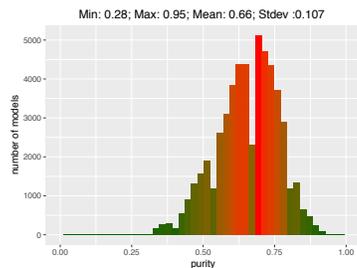


Figure 5.50: Unreduced, typed

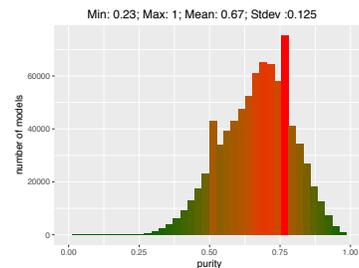


Figure 5.51: Reduced, typed

## 5.6 Clustering: MITCHELL

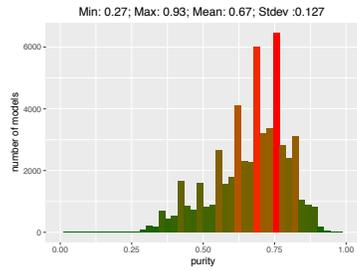


Figure 5.52: Unreduced, filtered

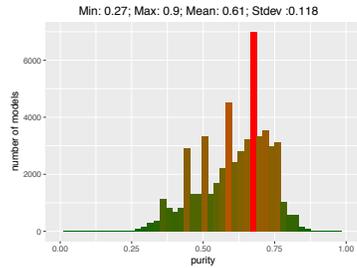


Figure 5.54: Unreduced, typed

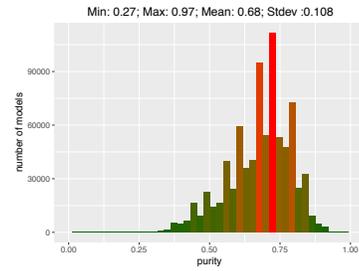


Figure 5.53: Reduced, filtered

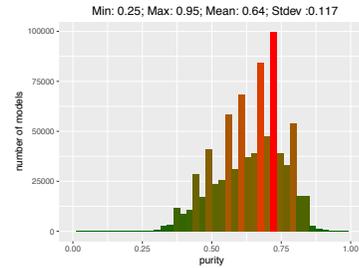


Figure 5.55: Reduced, typed

## 5.7 Clustering: ESSLI

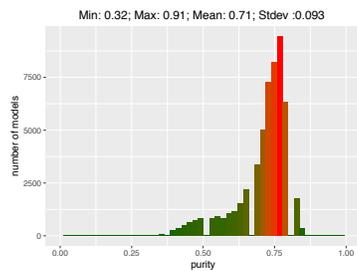


Figure 5.56: Unreduced, filtered

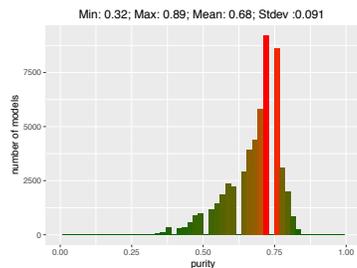


Figure 5.58: Unreduced, typed

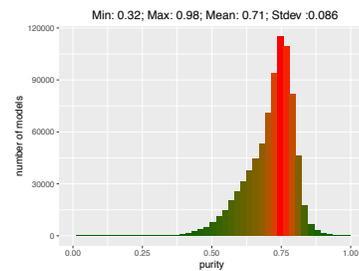


Figure 5.57: Reduced, filtered

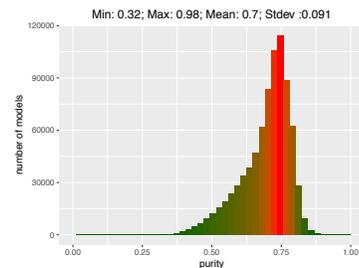


Figure 5.59: Reduced, typed

## 5.8 Semantic priming, multiple choice: SYN

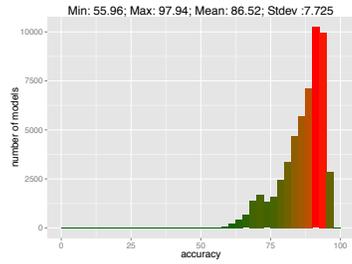


Figure 5.60: Unreduced, filtered

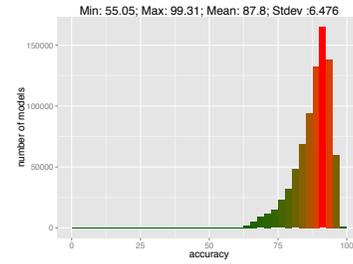


Figure 5.61: Reduced, filtered

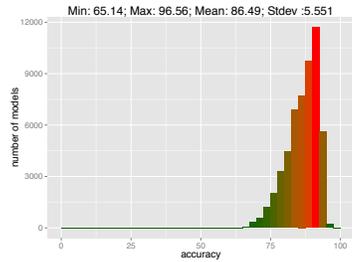


Figure 5.62: Unreduced, typed

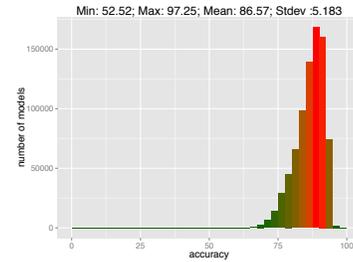


Figure 5.63: Reduced, typed

## 5.9 Semantic priming, multiple choice: ANT

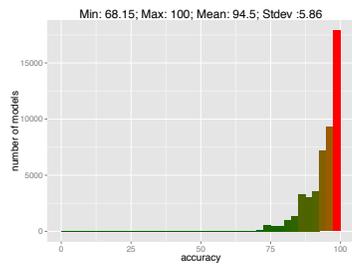


Figure 5.64: Unreduced, filtered

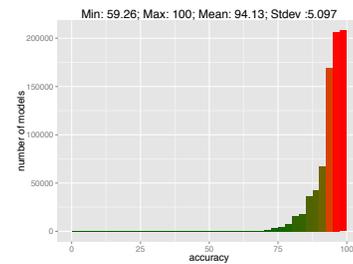


Figure 5.65: Reduced, filtered

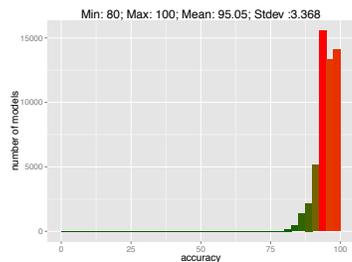


Figure 5.66: Unreduced, typed

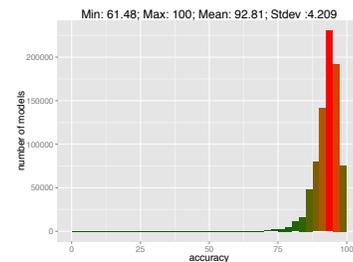


Figure 5.67: Reduced, typed

## 5.10 Semantic priming, multiple choice: COH

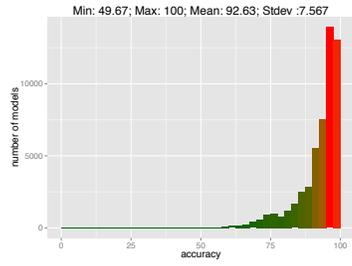


Figure 5.68: Unreduced, filtered

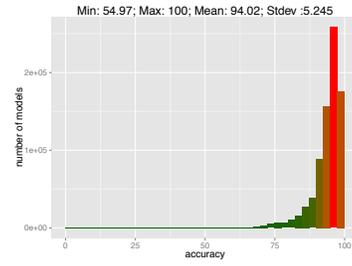


Figure 5.69: Reduced, filtered

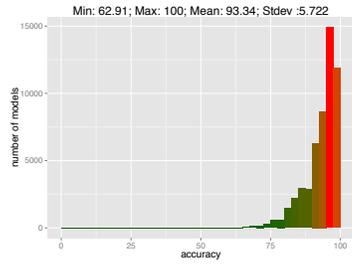


Figure 5.70: Unreduced, typed

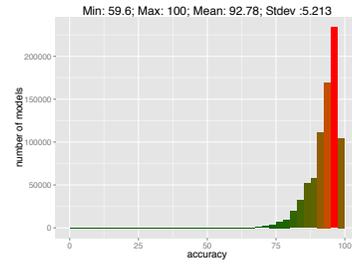


Figure 5.71: Reduced, typed

## 5.11 Semantic priming, multiple choice: FPA

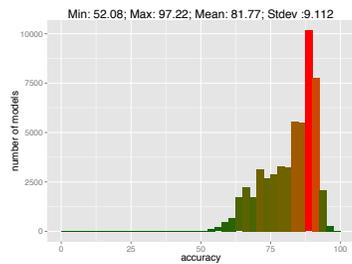


Figure 5.72: Unreduced, filtered

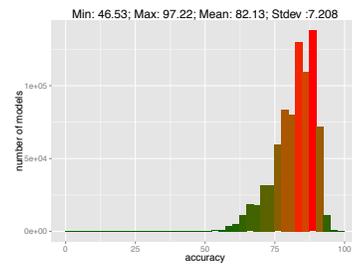


Figure 5.73: Reduced, filtered

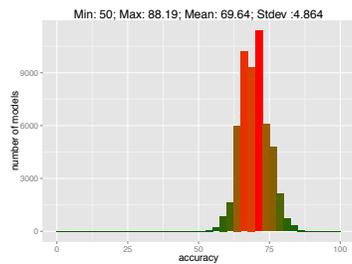


Figure 5.74: Unreduced, typed

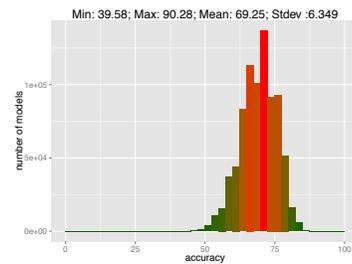


Figure 5.75: Reduced, typed

## 5.12 Semantic priming, multiple choice: BPA

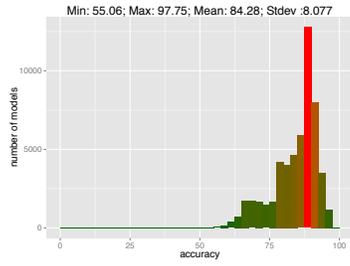


Figure 5.76: Unreduced, filtered

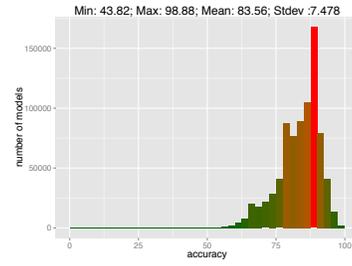


Figure 5.77: Reduced, filtered

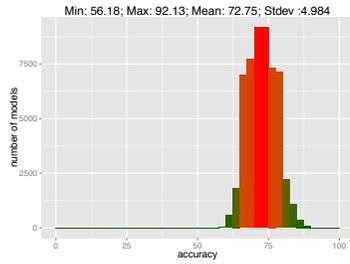


Figure 5.78: Unreduced, typed

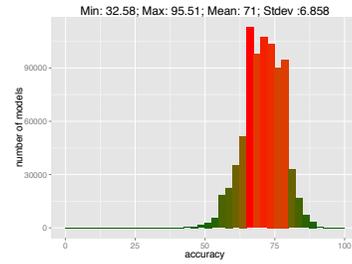


Figure 5.79: Reduced, typed

## 5.13 Semantic priming, multiple choice: GEK

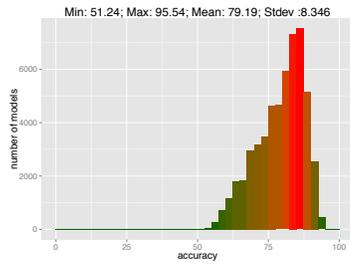


Figure 5.80: Unreduced, filtered

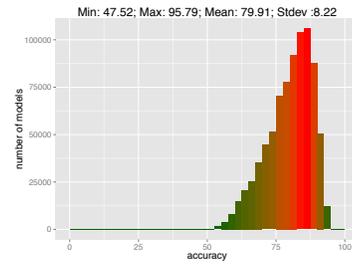


Figure 5.81: Reduced, filtered

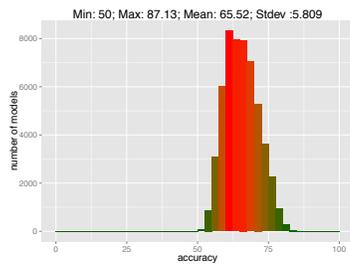


Figure 5.82: Unreduced, typed

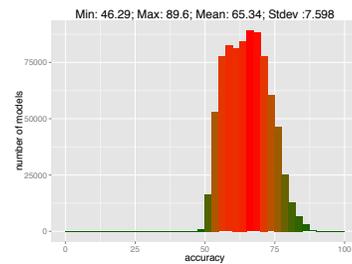


Figure 5.83: Reduced, typed

## 6 Explanatory Power of DSM Parameters

### 6.1 TOEFL

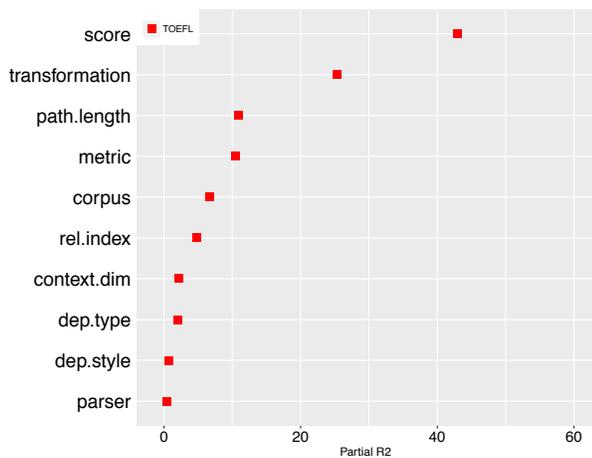


Figure 6.84: Unreduced, filtered

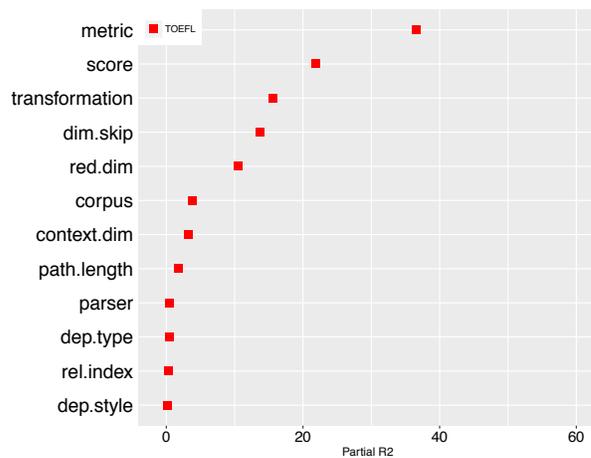


Figure 6.85: Reduced, filtered

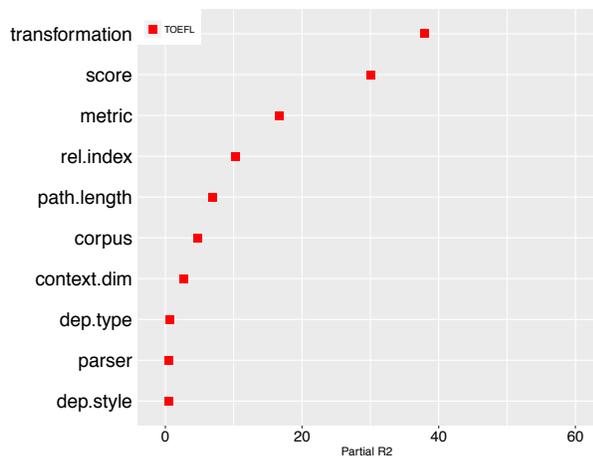


Figure 6.86: Unreduced, typed

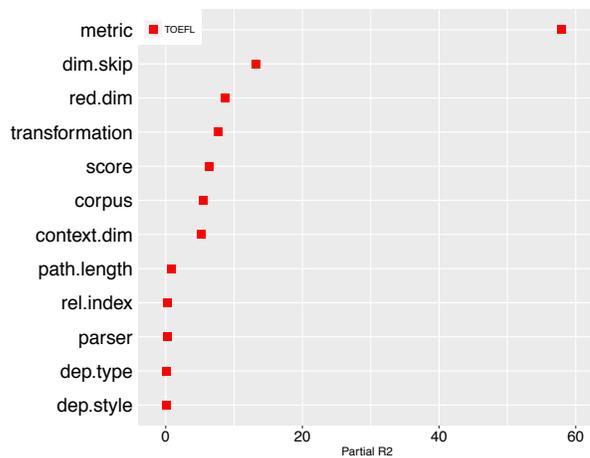


Figure 6.87: Reduced, typed

## 6.2 Ratings

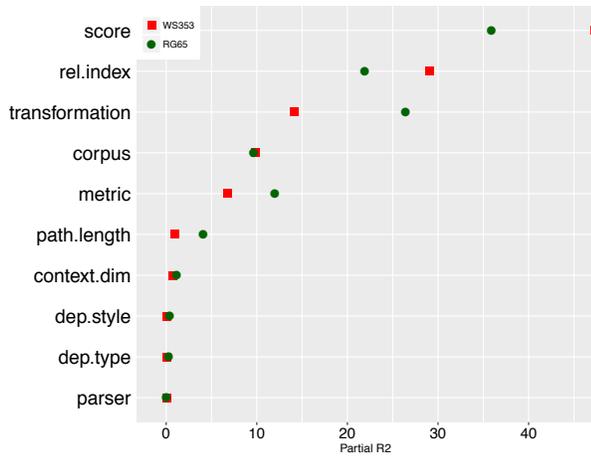


Figure 6.88: Unreduced, filtered

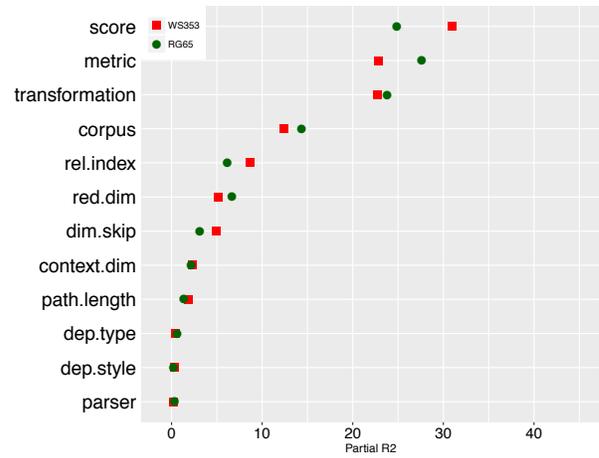


Figure 6.89: Reduced, filtered

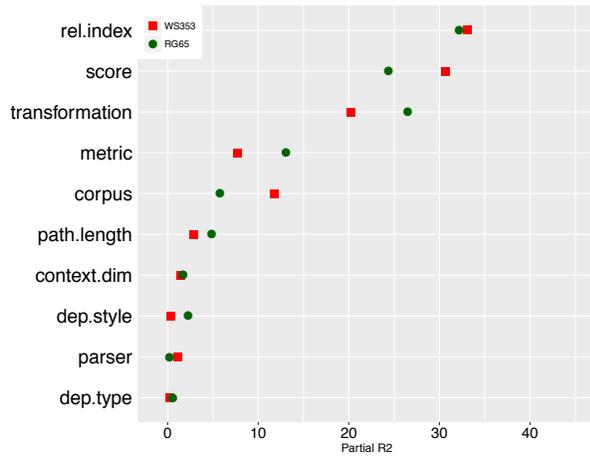


Figure 6.90: Unreduced, typed

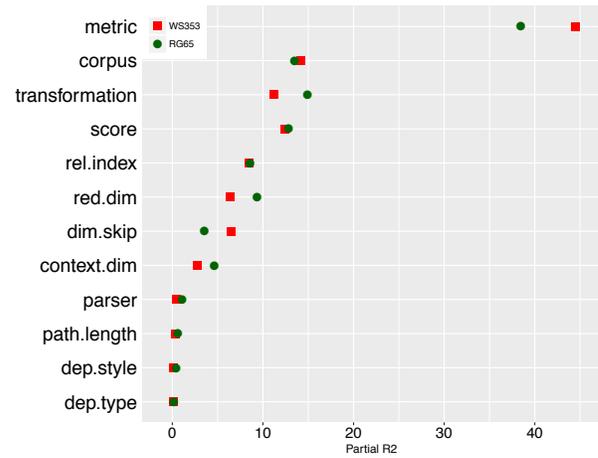


Figure 6.91: Reduced, typed

## 6.3 Clustering

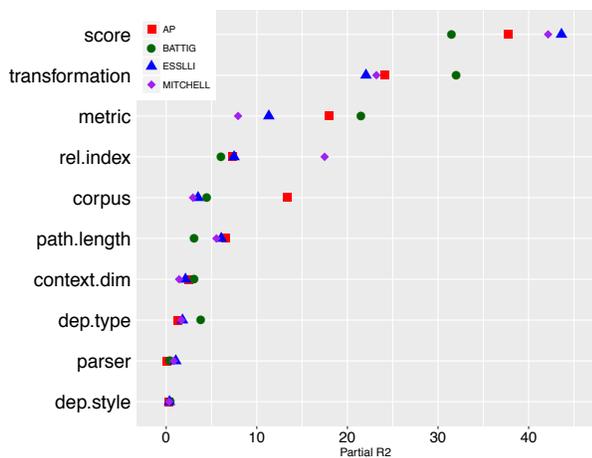


Figure 6.92: Unreduced, filtered

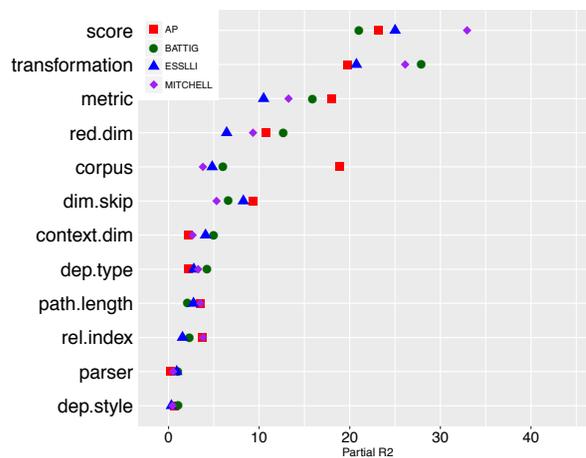


Figure 6.93: Reduced, filtered

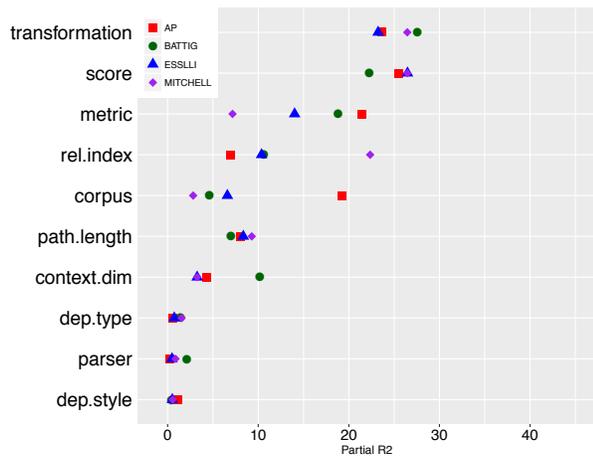


Figure 6.94: Unreduced, typed

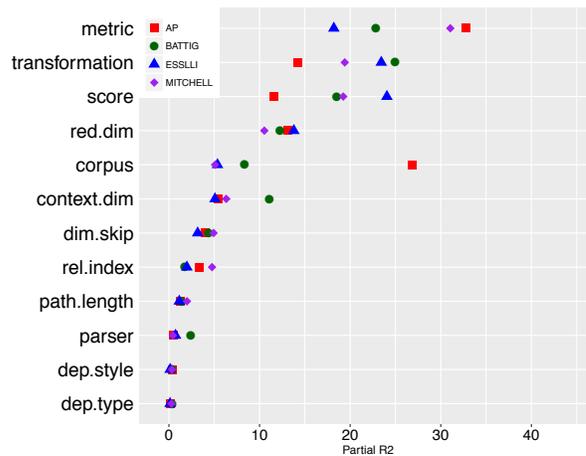


Figure 6.95: Reduced, typed

## 6.4 Semantic priming, paradigmatic relations (SYN, ANT, COH)

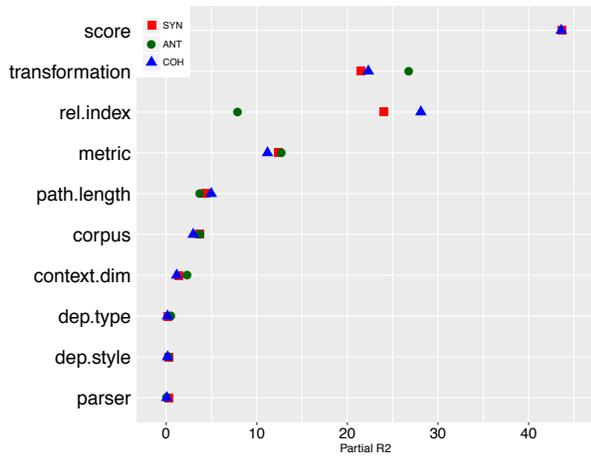


Figure 6.96: Unreduced, filtered

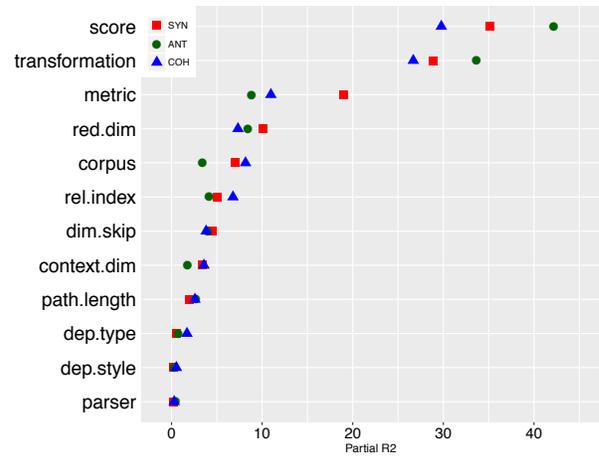


Figure 6.97: Reduced, filtered

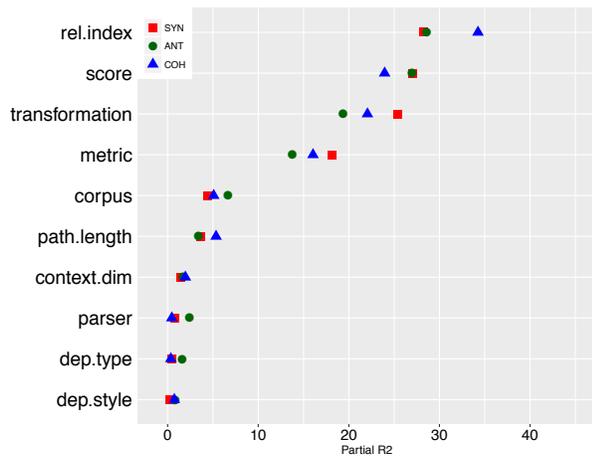


Figure 6.98: Unreduced, typed

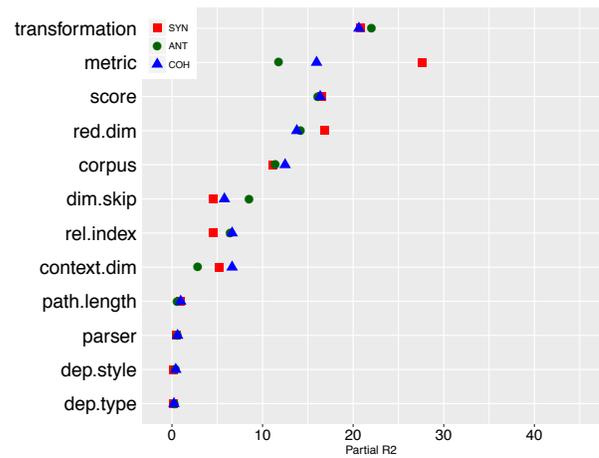


Figure 6.99: Reduced, typed

## 6.5 Semantic priming, syntagmatic relations (FPA, BPA, GEK)

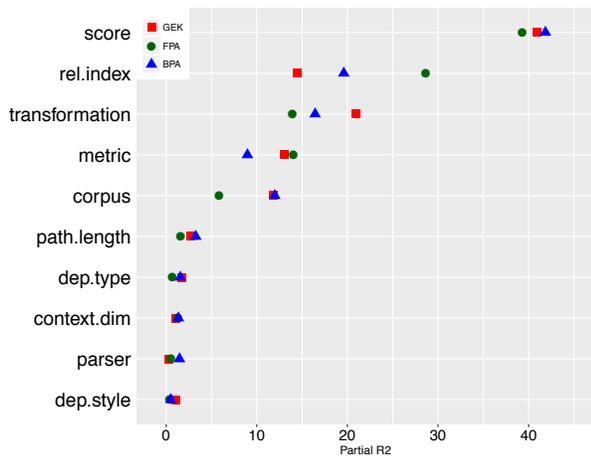


Figure 6.100: Unreduced, filtered

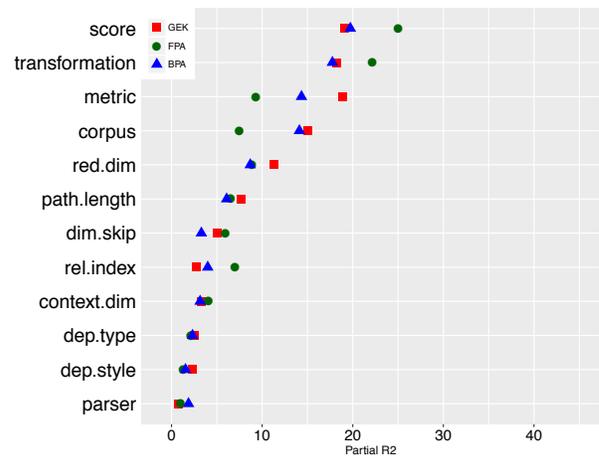


Figure 6.101: Reduced, filtered

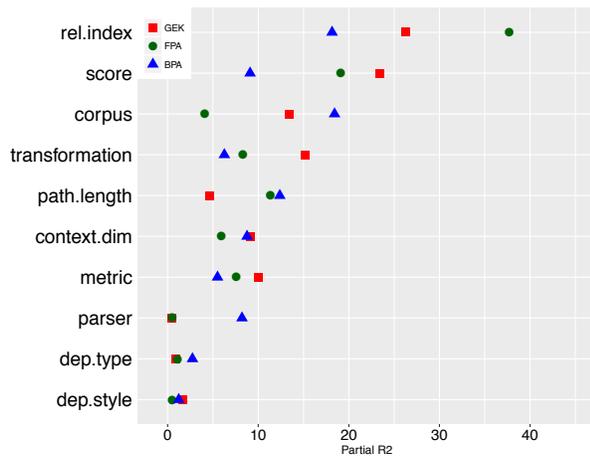


Figure 6.102: Unreduced, typed

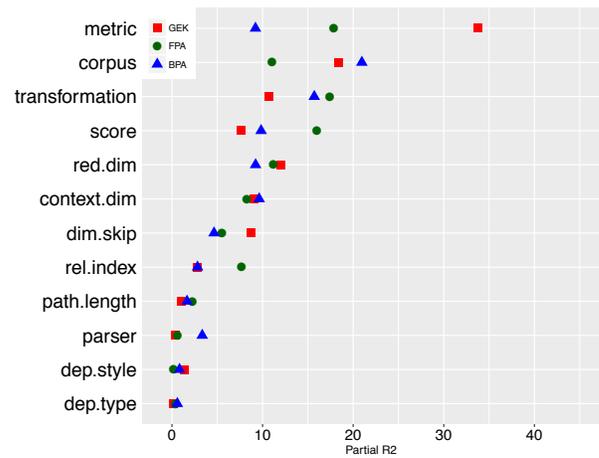


Figure 6.103: Reduced, typed

# 7 Effect plots

## 7.1 TOEFL

### 7.1.1 Main Effects

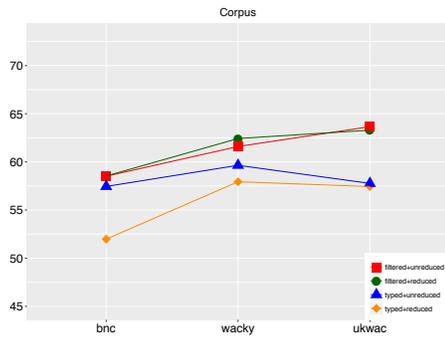


Figure 7.1

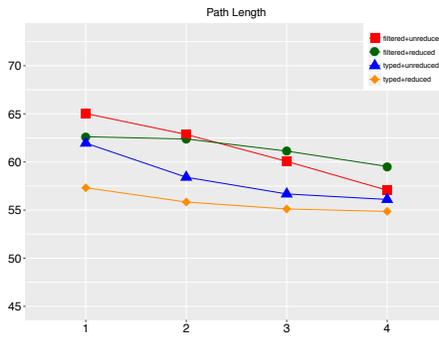


Figure 7.2

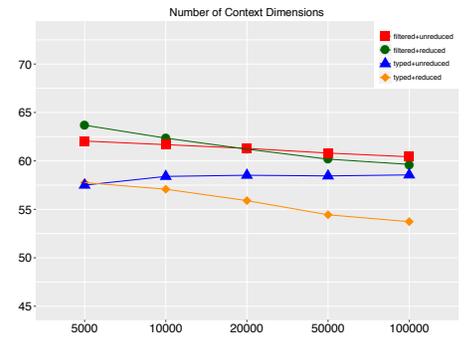


Figure 7.3

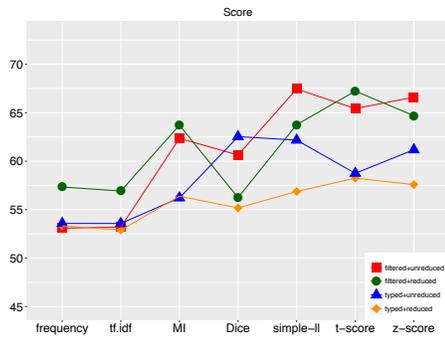


Figure 7.4

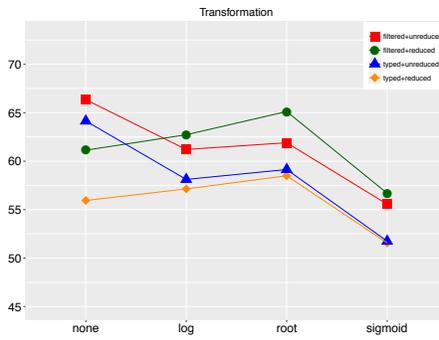


Figure 7.5

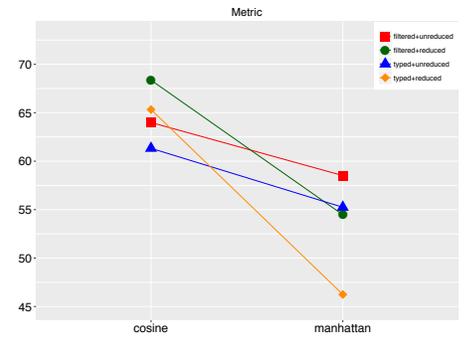


Figure 7.6

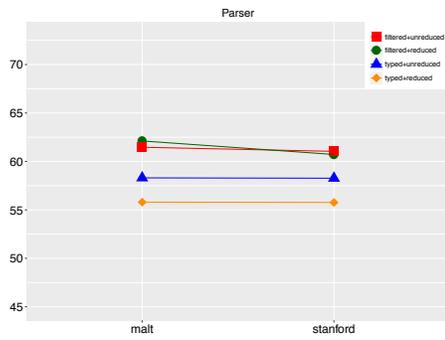


Figure 7.7

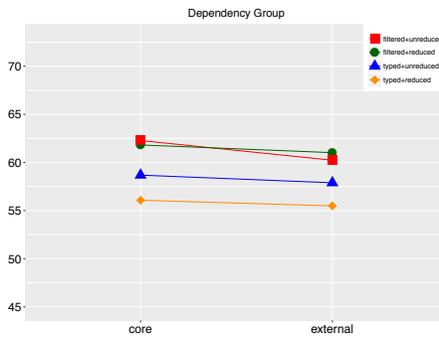


Figure 7.8

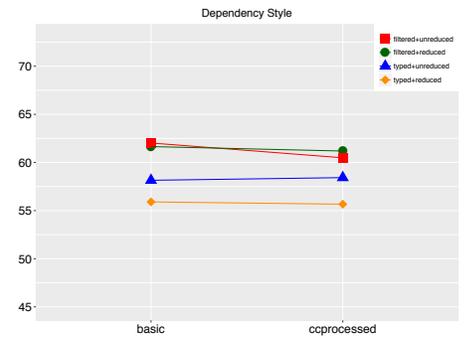


Figure 7.9

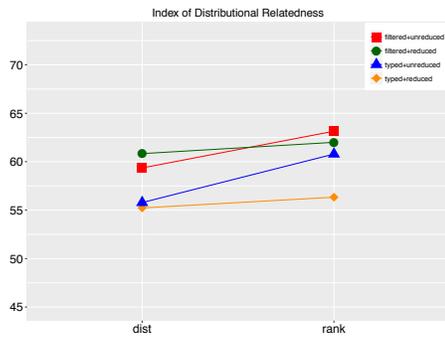


Figure 7.10

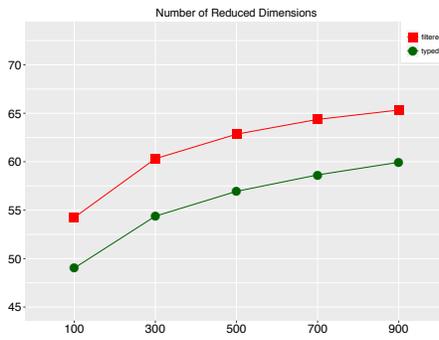


Figure 7.11

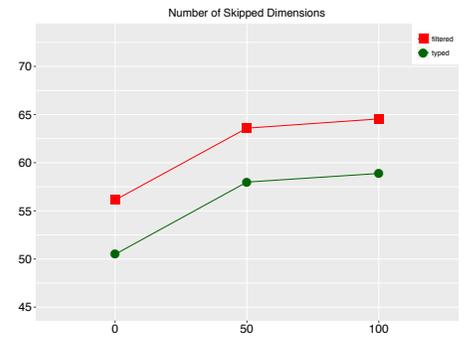


Figure 7.12

## 7.1.2 Interactions: filtered, unreduced

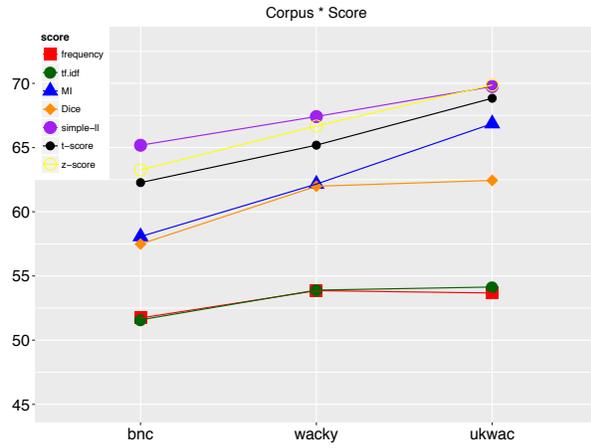


Figure 7.13: TOEFL, filtered, unreduced

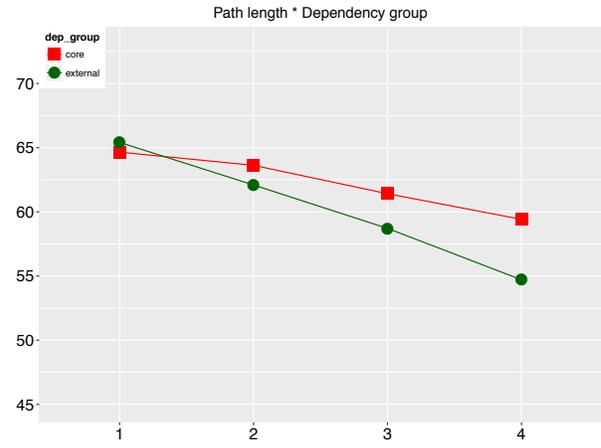


Figure 7.14: TOEFL, filtered, unreduced

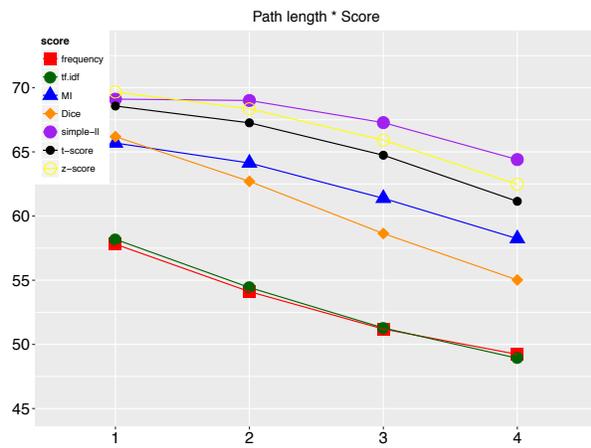


Figure 7.15: TOEFL, filtered, unreduced

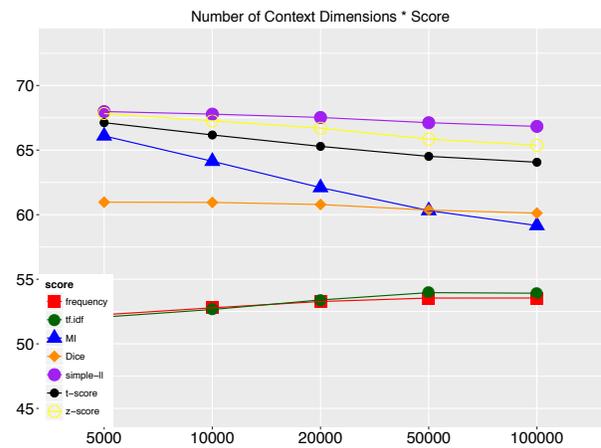


Figure 7.16: TOEFL, filtered, unreduced

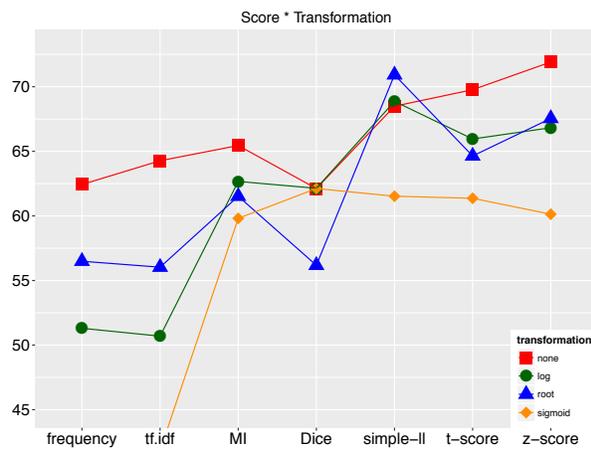


Figure 7.17: TOEFL, filtered, unreduced

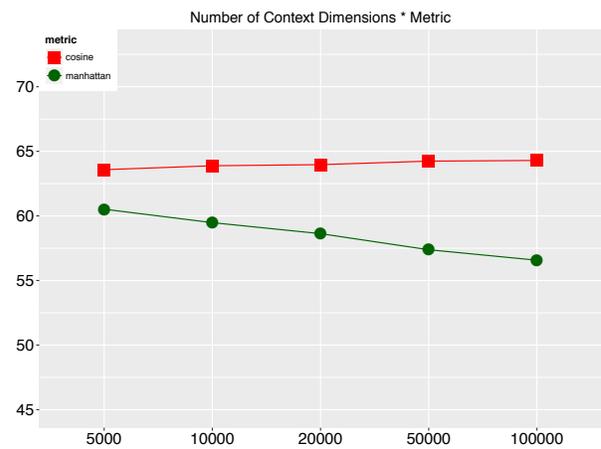


Figure 7.18: TOEFL, filtered, unreduced

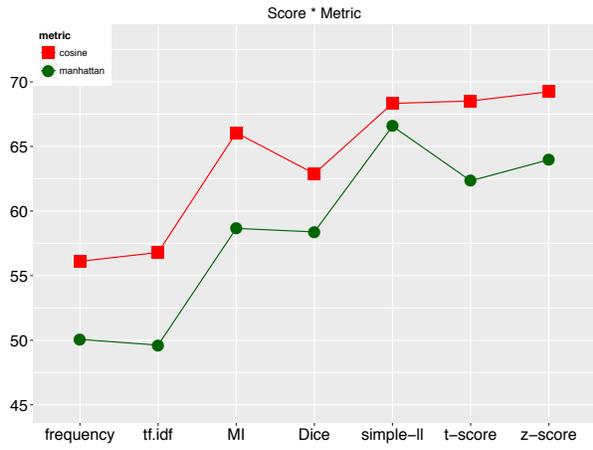


Figure 7.19: TOEFL, filtered, unreduced

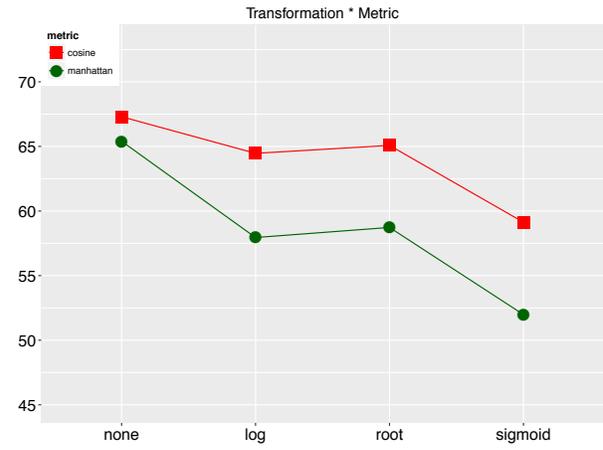


Figure 7.20: TOEFL, filtered, unreduced

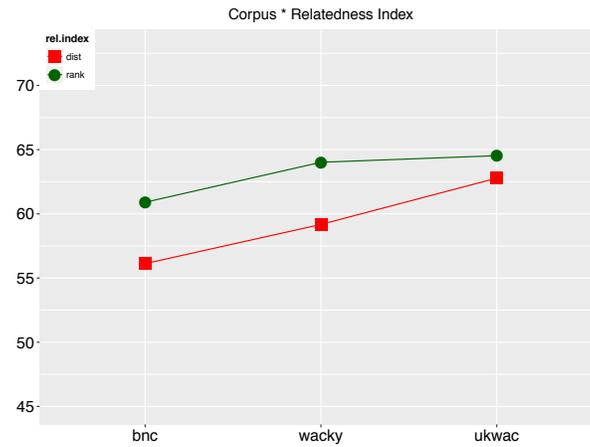


Figure 7.21: TOEFL, filtered, unreduced

### 7.1.3 Interactions: filtered, reduced

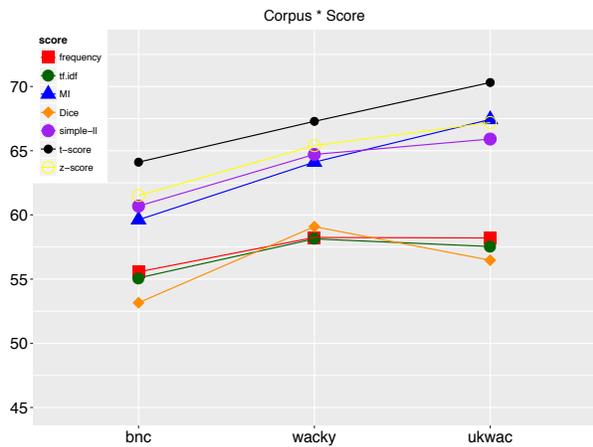


Figure 7.22: TOEFL, filtered, reduced

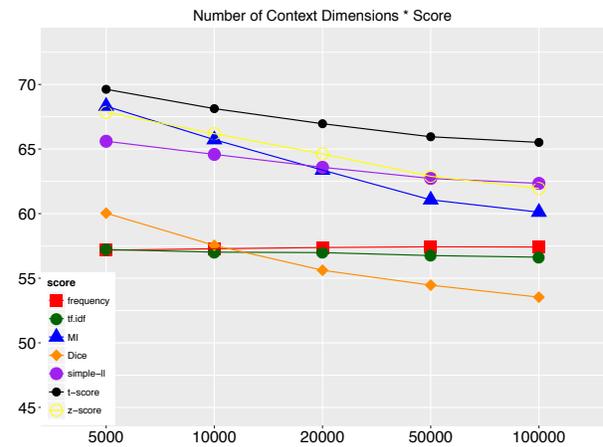


Figure 7.23: TOEFL, filtered, reduced

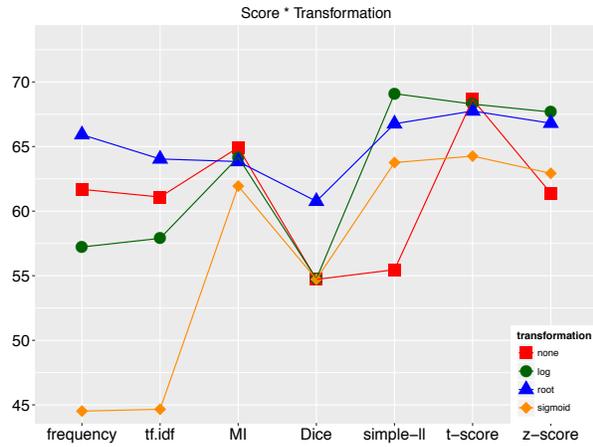


Figure 7.24: TOEFL,filtered,reduced

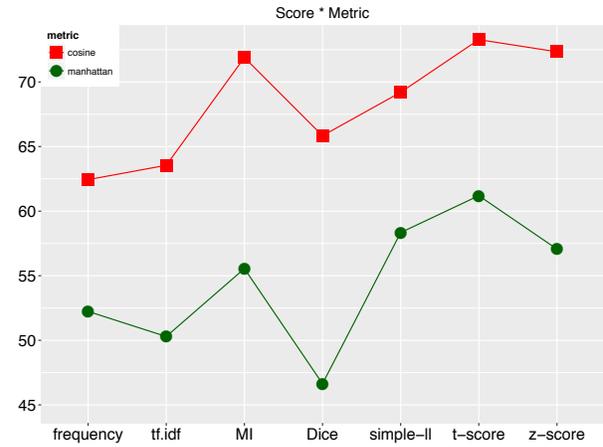


Figure 7.25: TOEFL,filtered,reduced

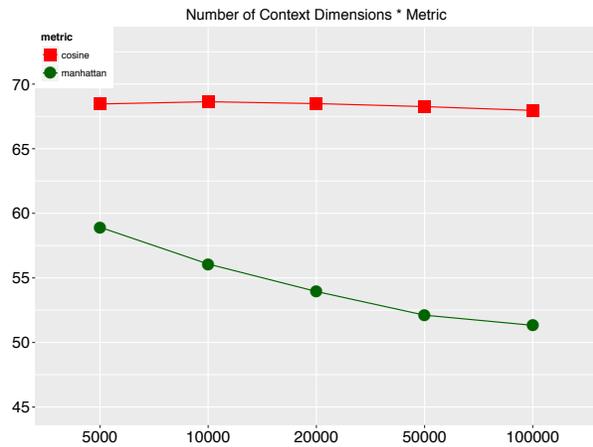


Figure 7.26: TOEFL,filtered,reduced

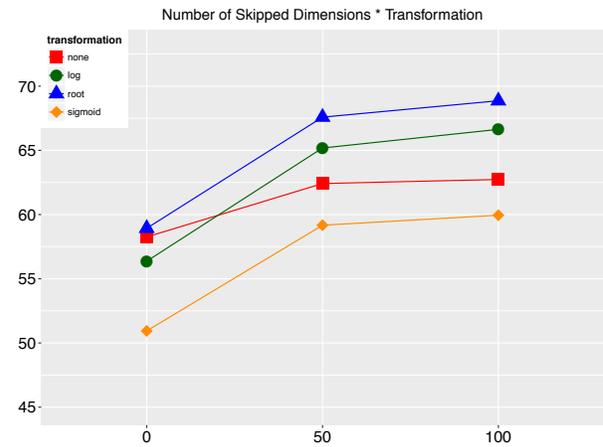


Figure 7.27: TOEFL,filtered,reduced

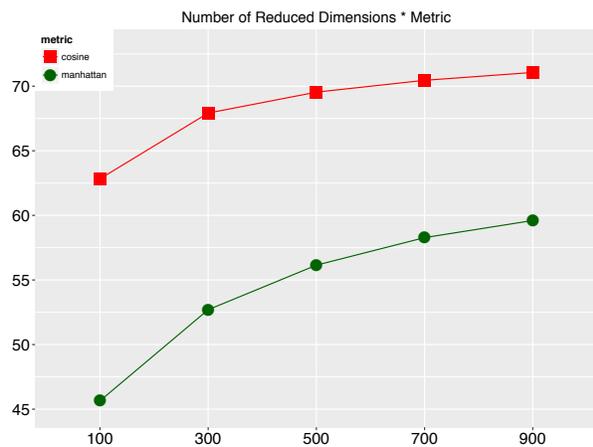


Figure 7.28: TOEFL,filtered,reduced

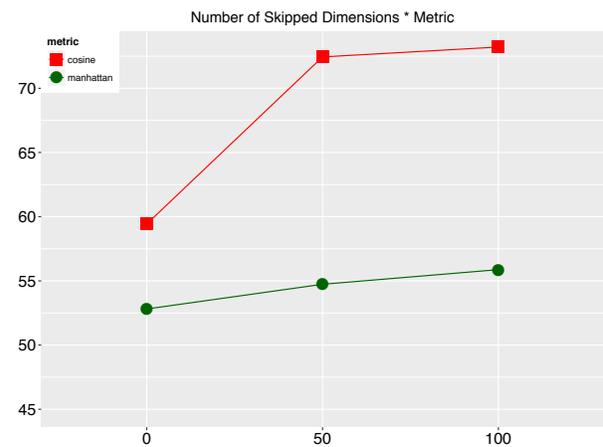


Figure 7.29: TOEFL,filtered,reduced

## 7.1.4 Interactions: typed, unreduced

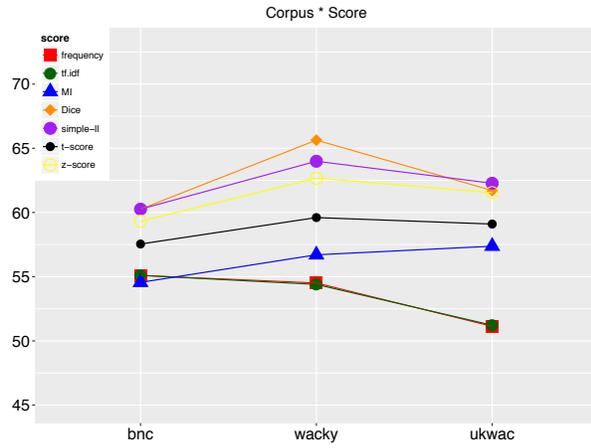


Figure 7.30: TOEFL,typed,unreduced

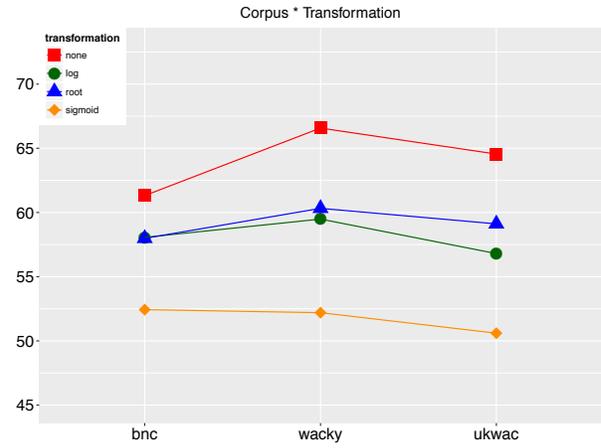


Figure 7.31: TOEFL,typed,unreduced

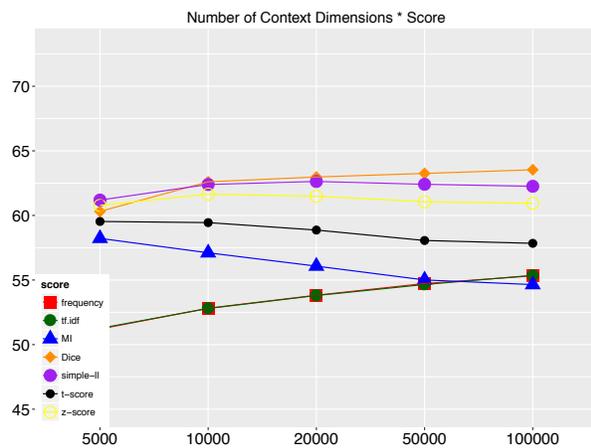


Figure 7.32: TOEFL,typed,unreduced

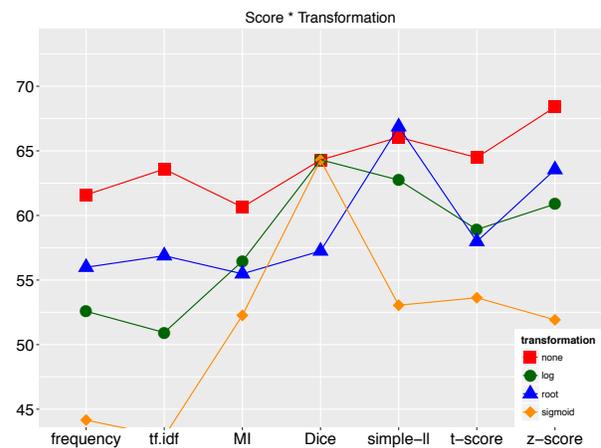


Figure 7.33: TOEFL,typed,unreduced

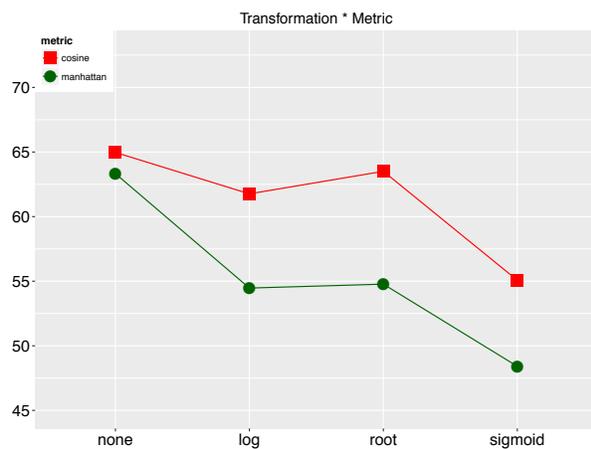


Figure 7.34: TOEFL,typed,unreduced

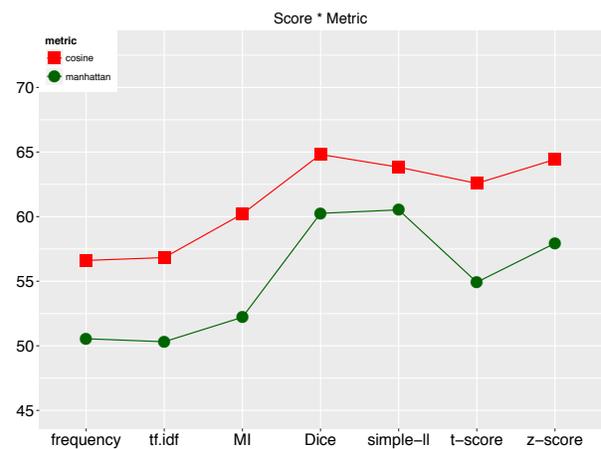


Figure 7.35: TOEFL,typed,unreduced

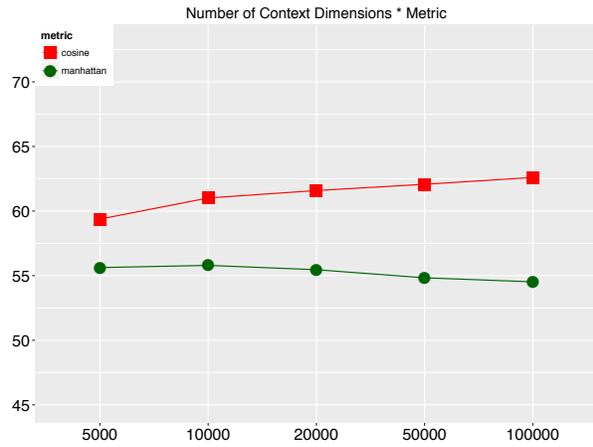


Figure 7.36: TOEFL,typed,unreduced

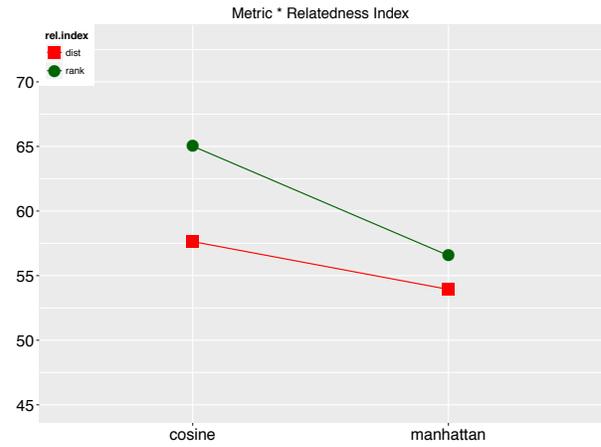


Figure 7.37: TOEFL,typed,unreduced

### 7.1.5 Interactions: typed, reduced

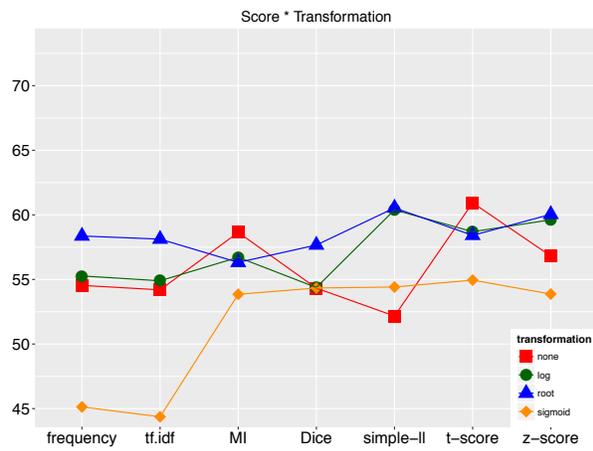


Figure 7.38: TOEFL,typed,reduced

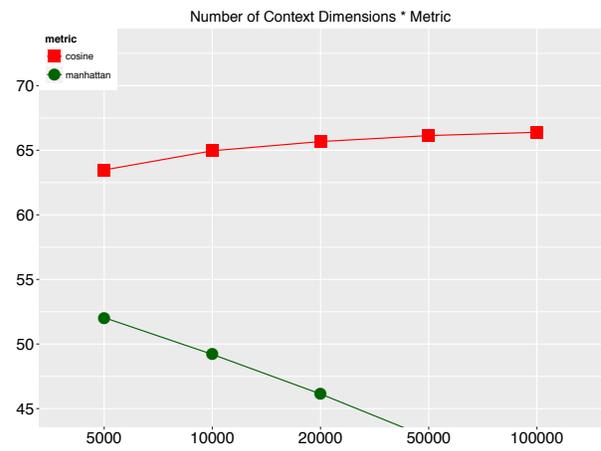


Figure 7.39: TOEFL,typed,reduced

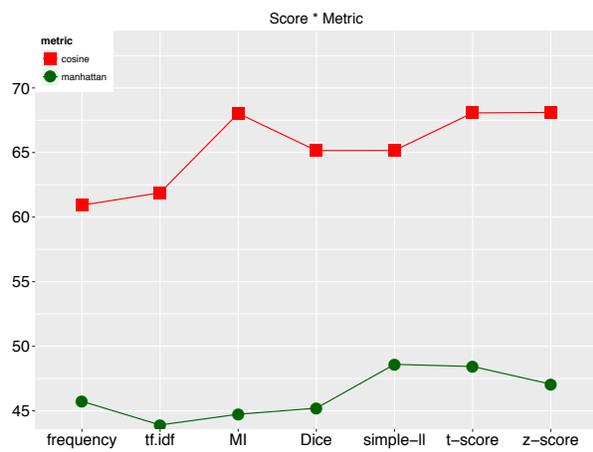


Figure 7.40: TOEFL,typed,reduced

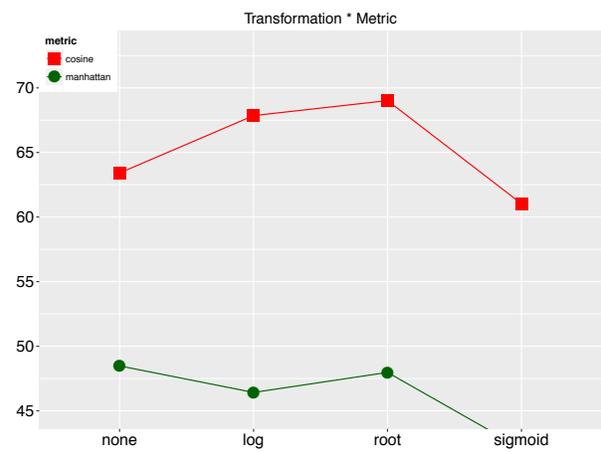


Figure 7.41: TOEFL,typed,reduced

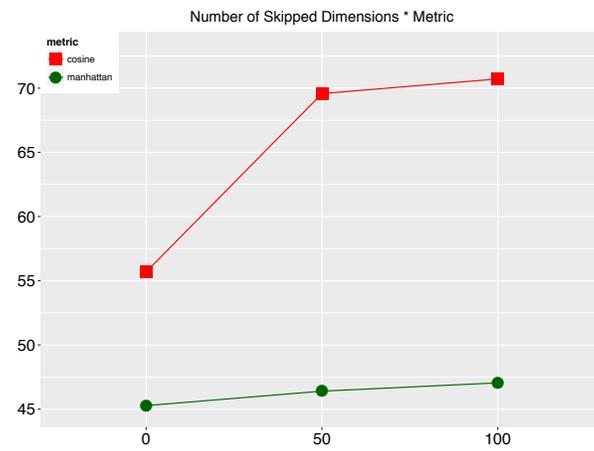


Figure 7.42: TOEFL,typed, reduced

## 7.2 WS353

### 7.2.1 Main Effects

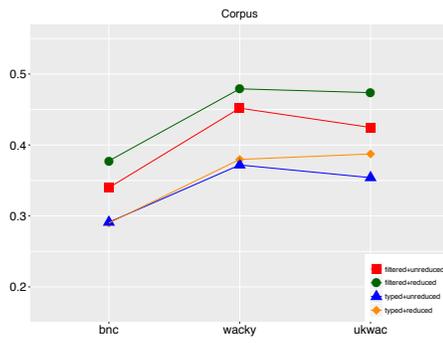


Figure 7.1

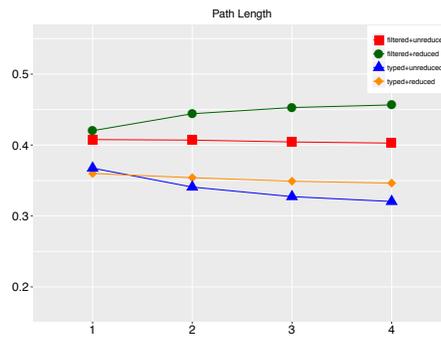


Figure 7.2

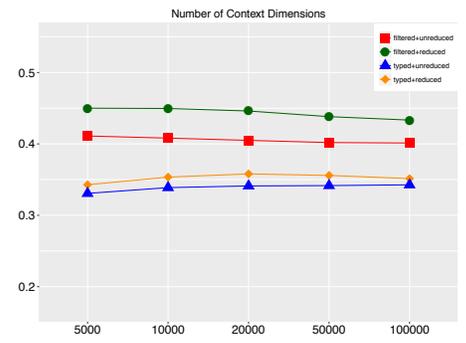


Figure 7.3

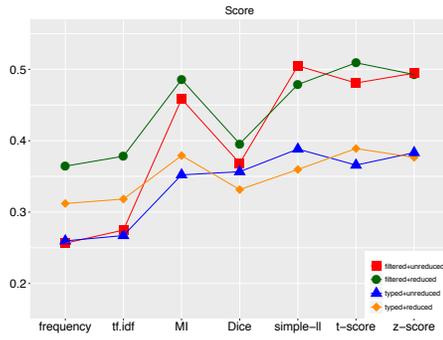


Figure 7.4

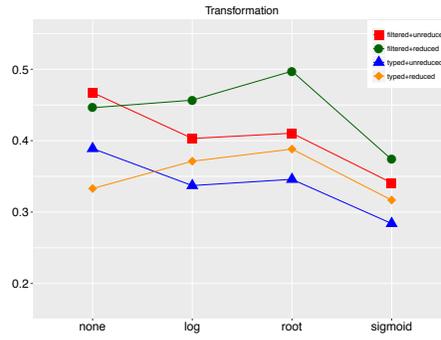


Figure 7.5

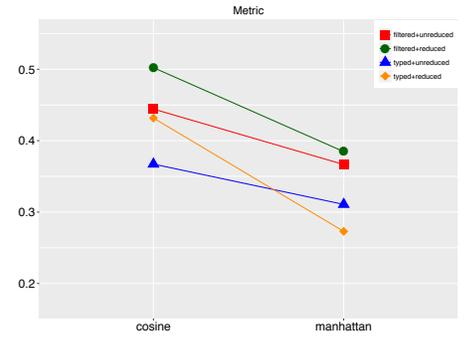


Figure 7.6

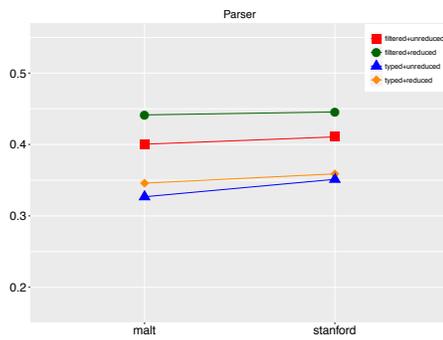


Figure 7.7

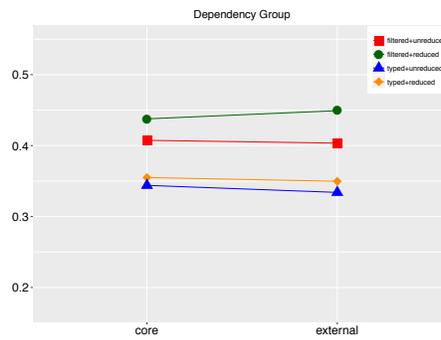


Figure 7.8

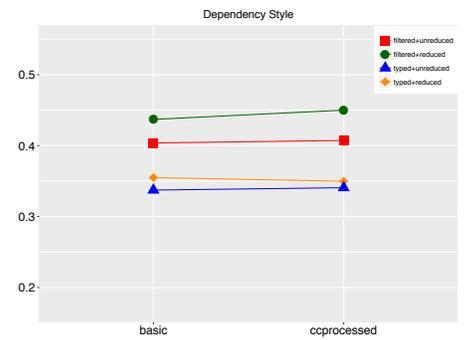


Figure 7.9

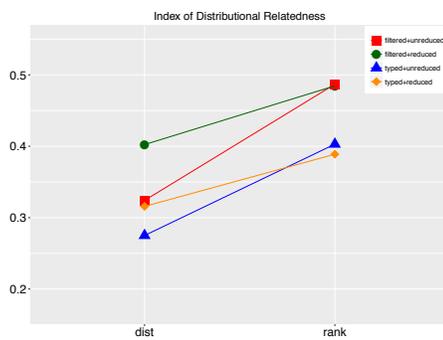


Figure 7.10

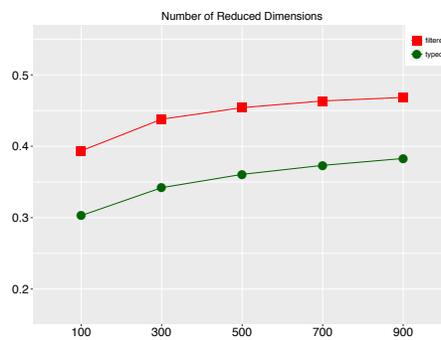


Figure 7.11

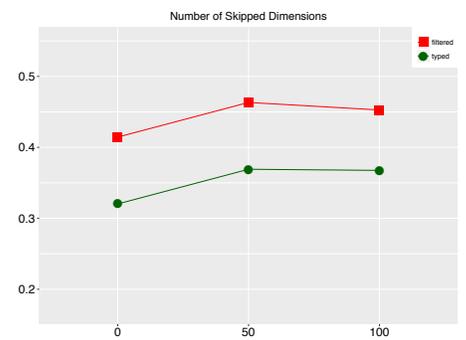


Figure 7.12

## 7.2.2 Interactions: filtered, unreduced

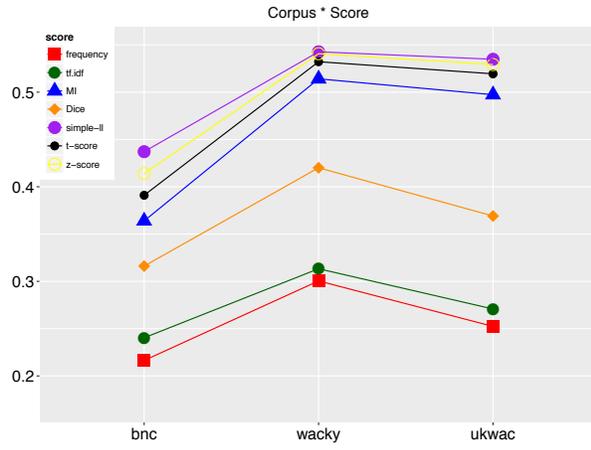


Figure 7.13: WS353, filtered, unreduced



Figure 7.14: WS353, filtered, unreduced

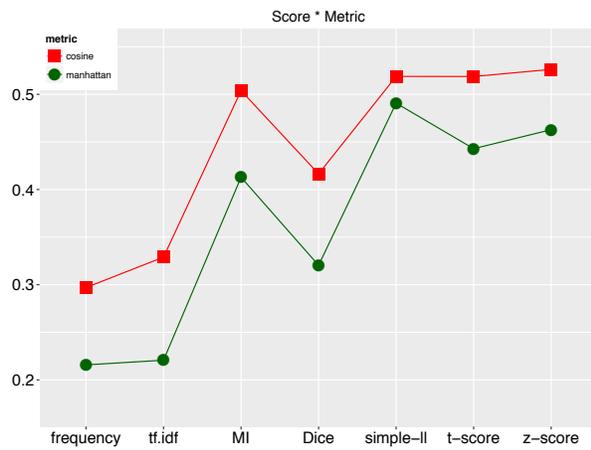


Figure 7.15: WS353, filtered, unreduced

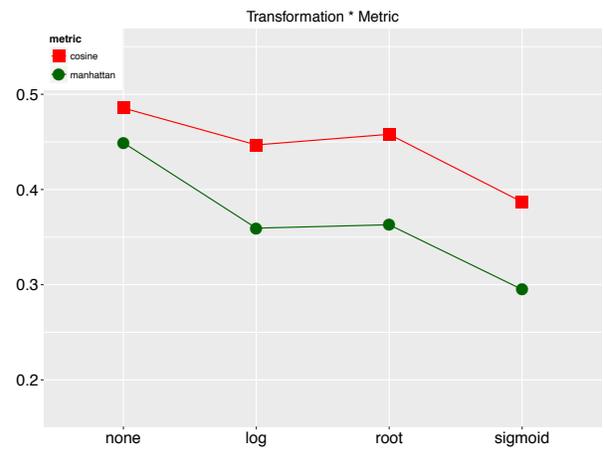


Figure 7.16: WS353, filtered, unreduced

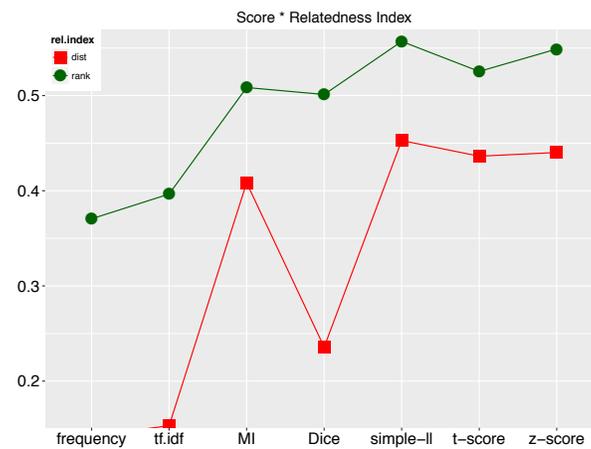


Figure 7.17: WS353, filtered, unreduced

### 7.2.3 Interactions: filtered, reduced

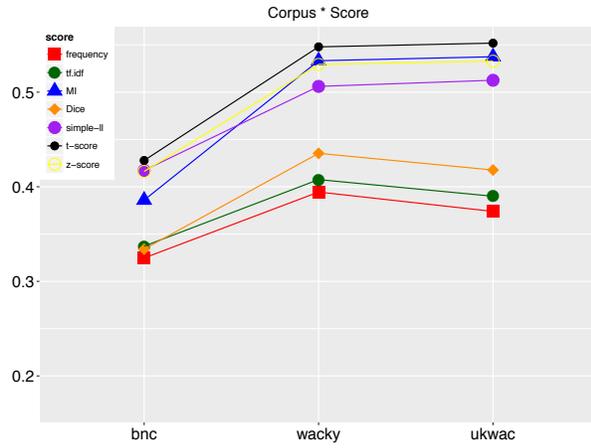


Figure 7.18: WS353,filtered,reduced

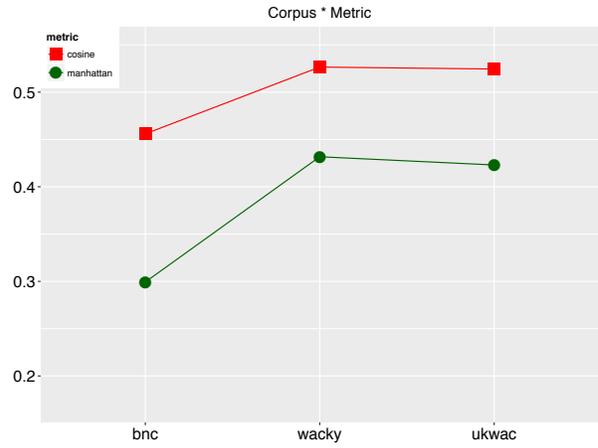


Figure 7.19: WS353,filtered,reduced

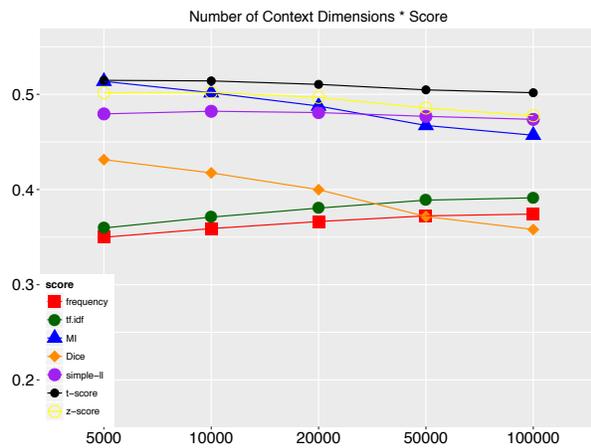


Figure 7.20: WS353,filtered,reduced

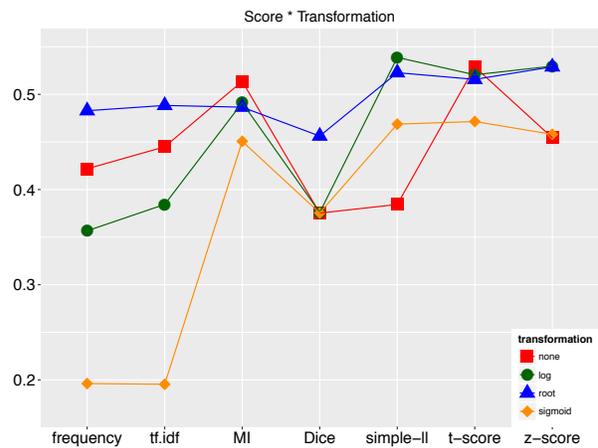


Figure 7.21: WS353,filtered,reduced

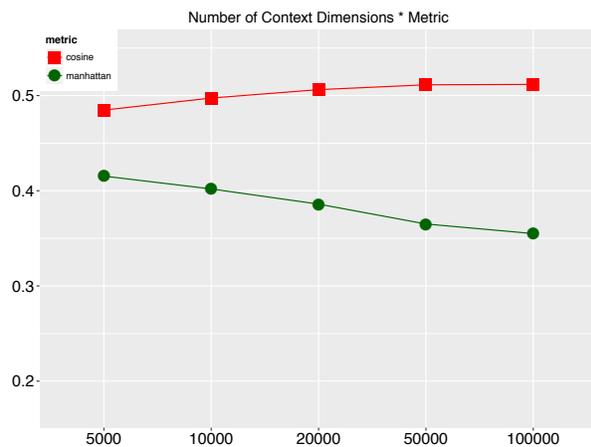


Figure 7.22: WS353,filtered,reduced

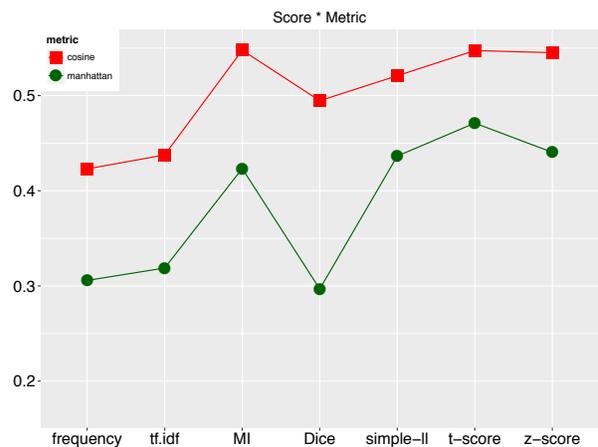


Figure 7.23: WS353,filtered,reduced

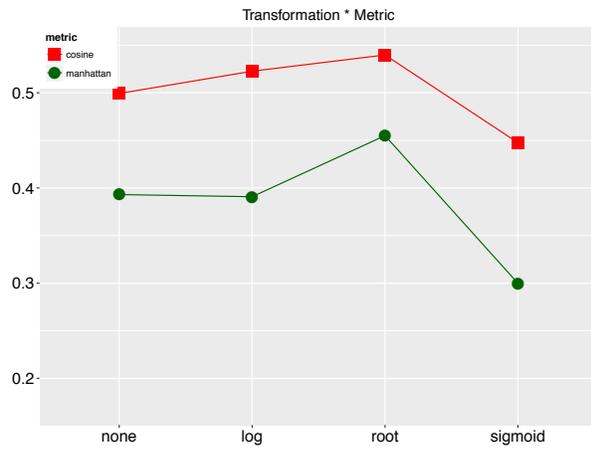


Figure 7.24: WS353,filtered,reduced

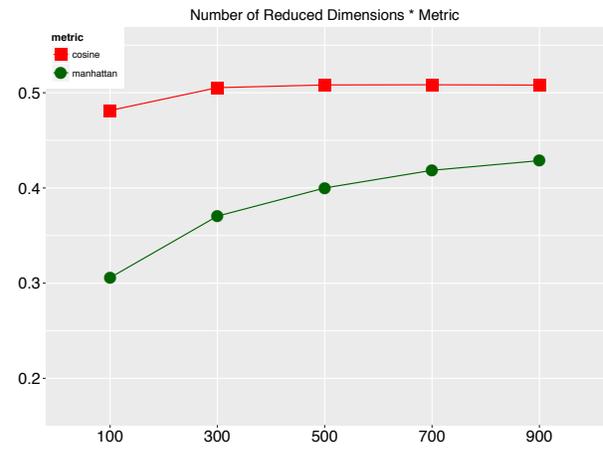


Figure 7.25: WS353,filtered,reduced

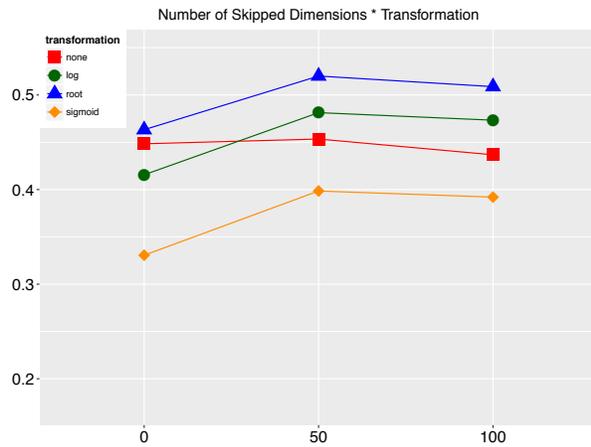


Figure 7.26: WS353,filtered,reduced

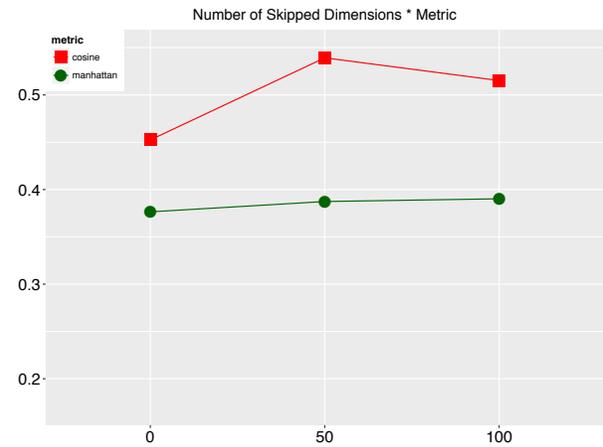


Figure 7.27: WS353,filtered,reduced

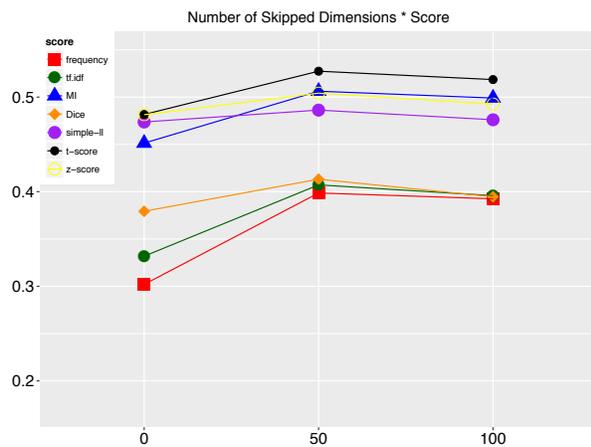


Figure 7.28: WS353,filtered,reduced

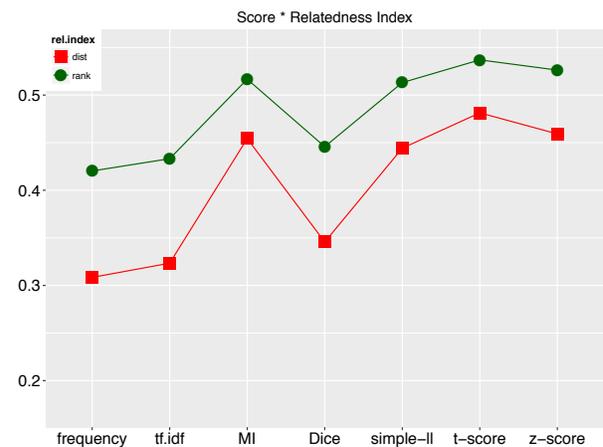


Figure 7.29: WS353,filtered,reduced

## 7.2.4 Interactions: typed, unreduced

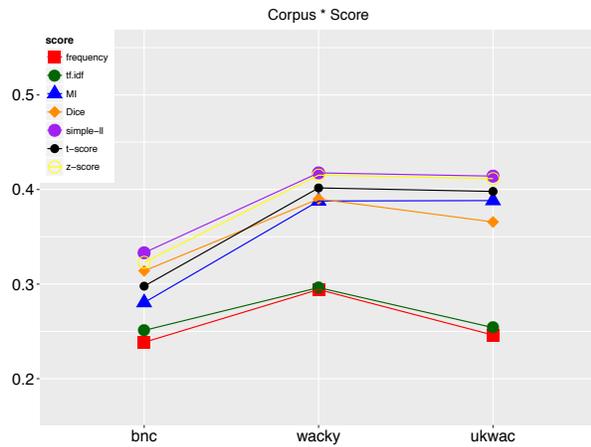


Figure 7.30: WS353,typed,unreduced

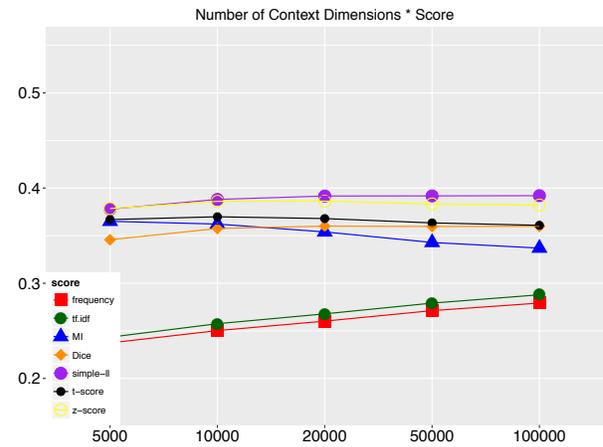


Figure 7.31: WS353,typed,unreduced

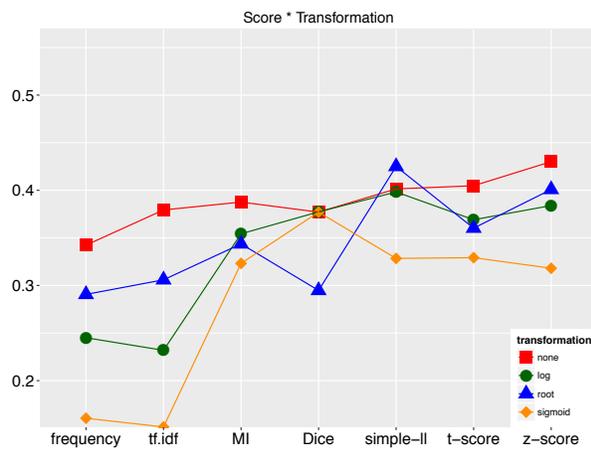


Figure 7.32: WS353,typed,unreduced

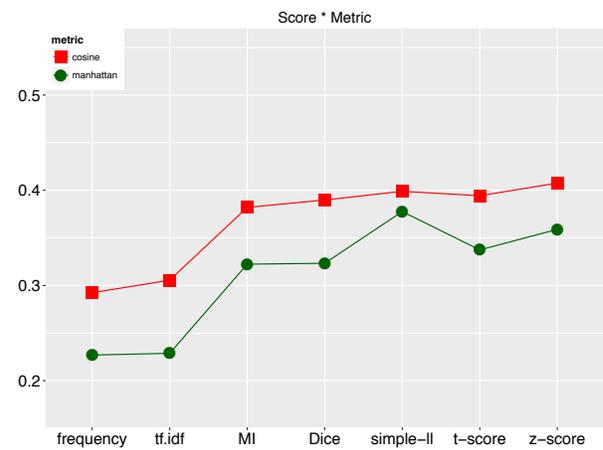


Figure 7.33: WS353,typed,unreduced



Figure 7.34: WS353,typed,unreduced

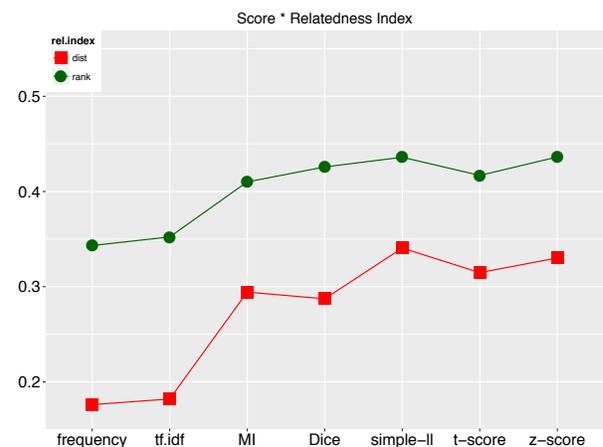


Figure 7.35: WS353,typed,unreduced

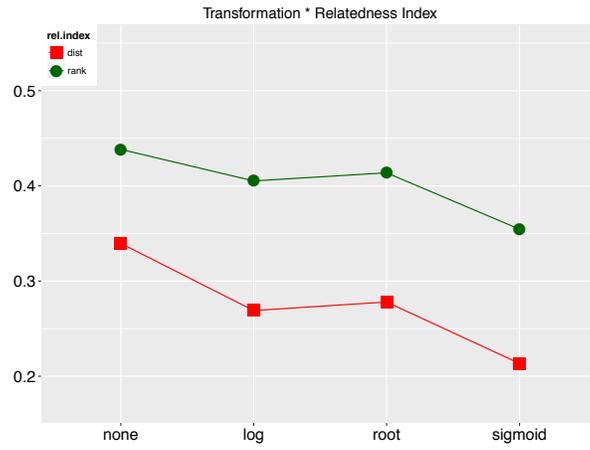


Figure 7.36: WS353,typed,unreduced

### 7.2.5 Interactions: typed, reduced

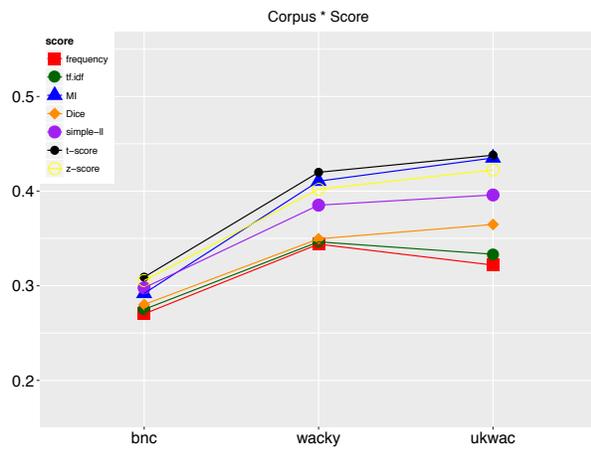


Figure 7.37: WS353,typed,reduced

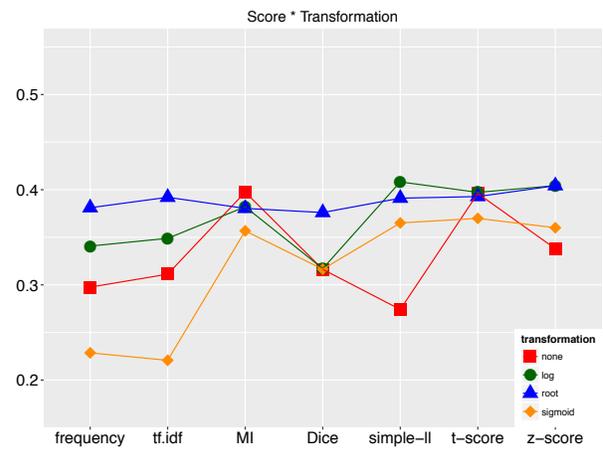


Figure 7.38: WS353,typed,reduced

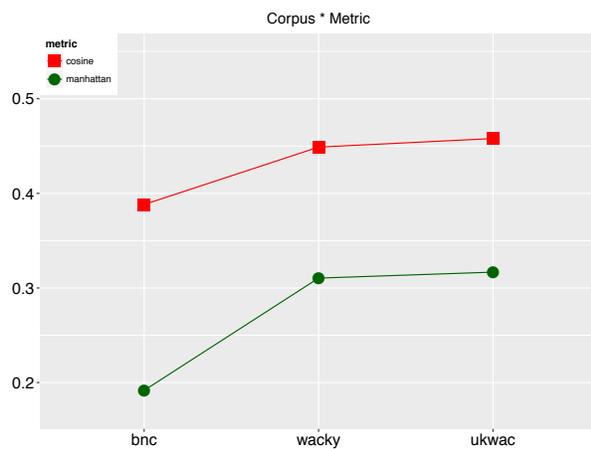


Figure 7.39: WS353,typed,reduced

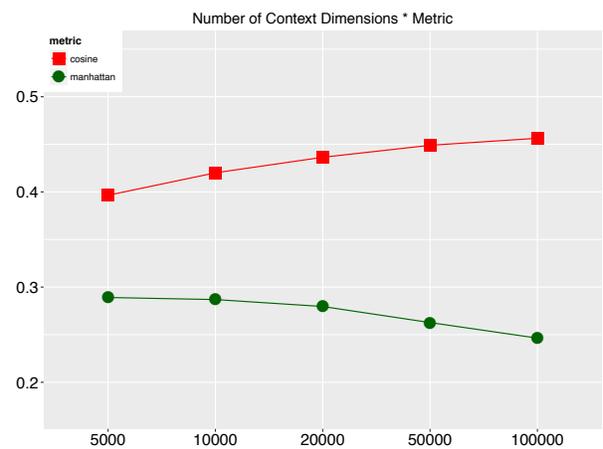


Figure 7.40: WS353,typed,reduced

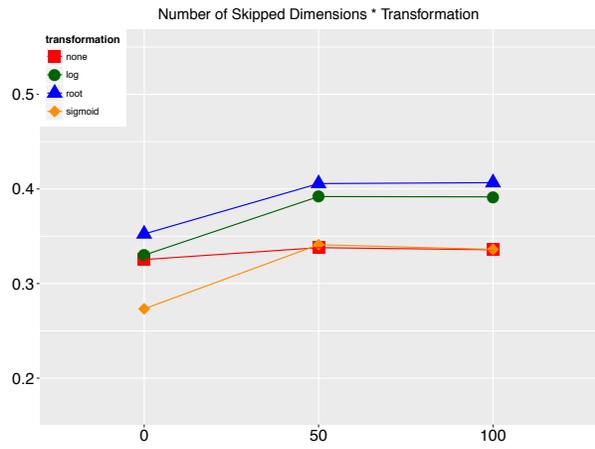


Figure 7.41: WS353,typed,reduced

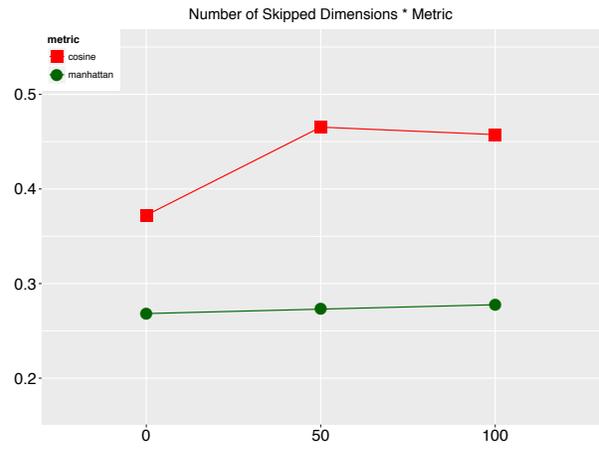


Figure 7.42: WS353,typed,reduced

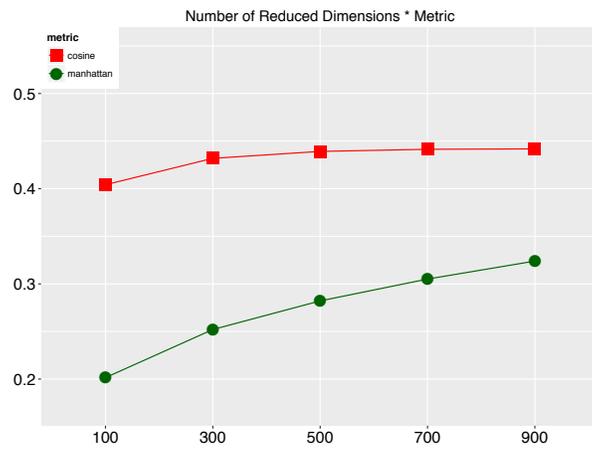


Figure 7.43: WS353,typed,reduced

## 7.3 RG65

### 7.3.1 Main Effects

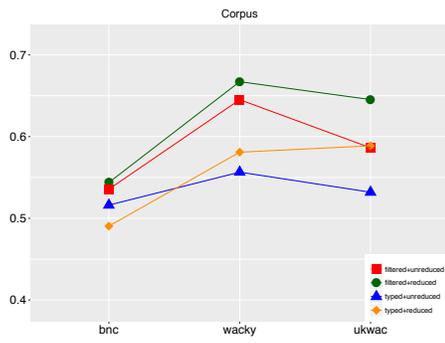


Figure 7.1

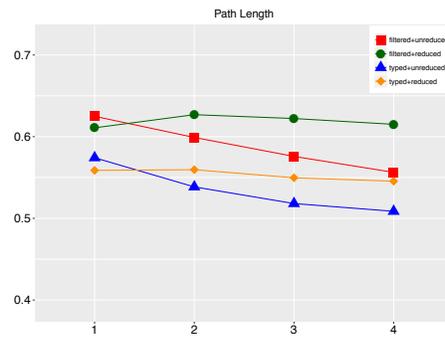


Figure 7.2

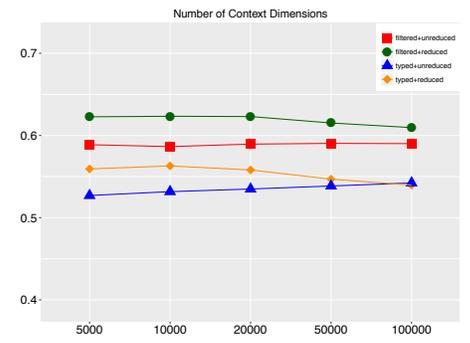


Figure 7.3

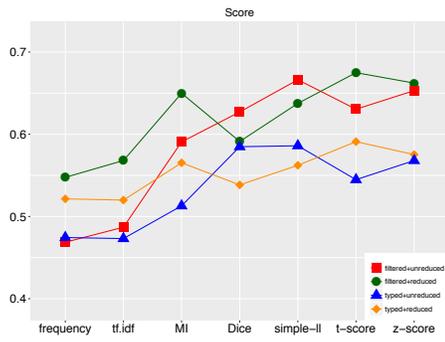


Figure 7.4

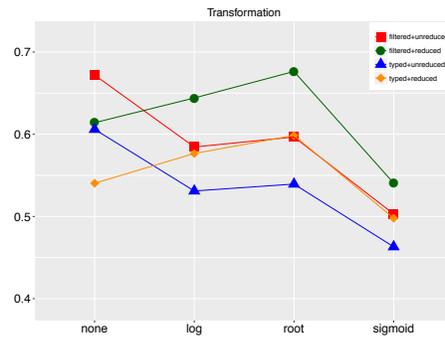


Figure 7.5

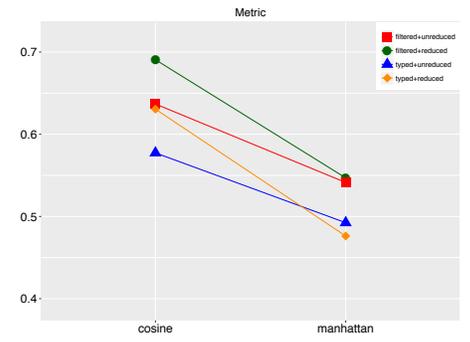


Figure 7.6

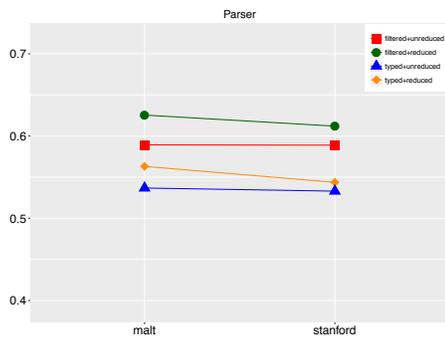


Figure 7.7

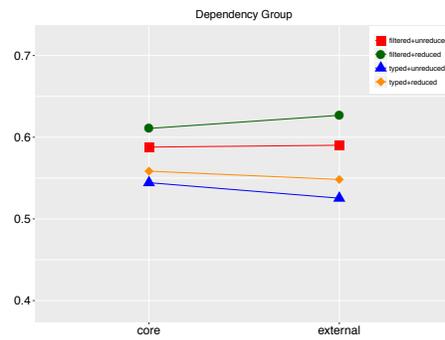


Figure 7.8

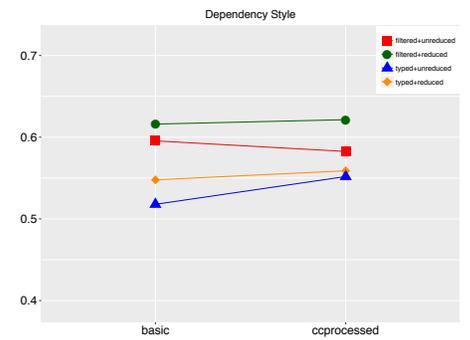


Figure 7.9

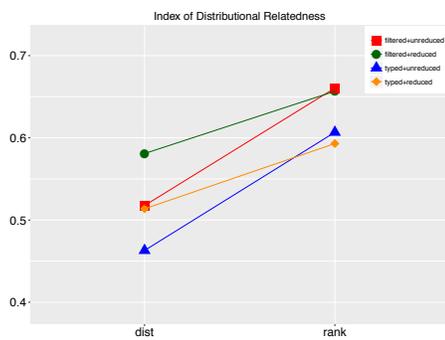


Figure 7.10

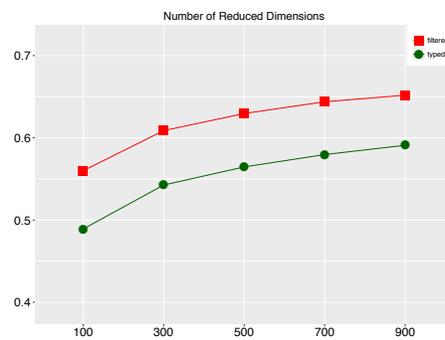


Figure 7.11

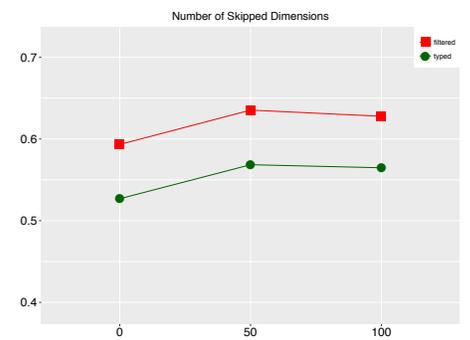


Figure 7.12

### 7.3.2 Interactions: filtered, unreduced

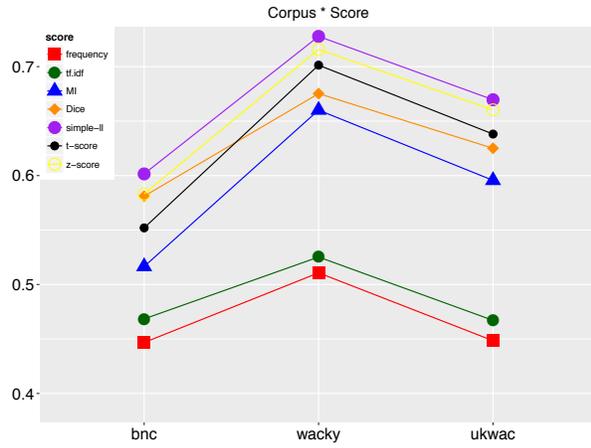


Figure 7.13: RG65, filtered, unreduced

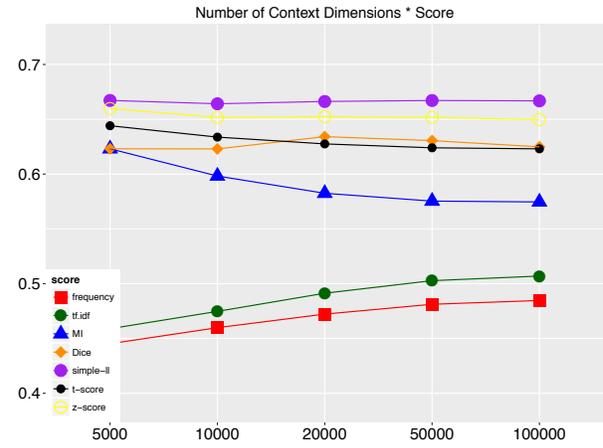


Figure 7.14: RG65, filtered, unreduced

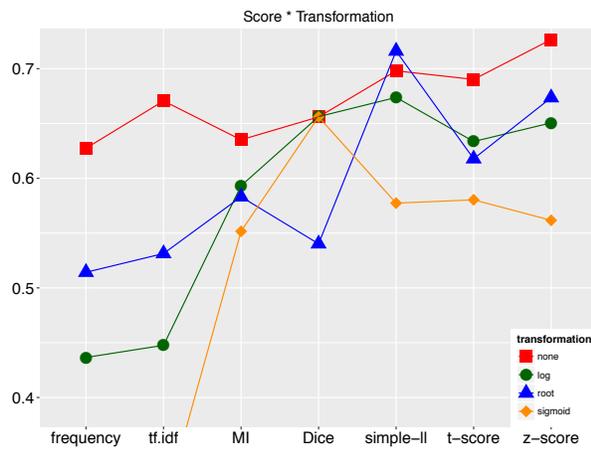


Figure 7.15: RG65, filtered, unreduced

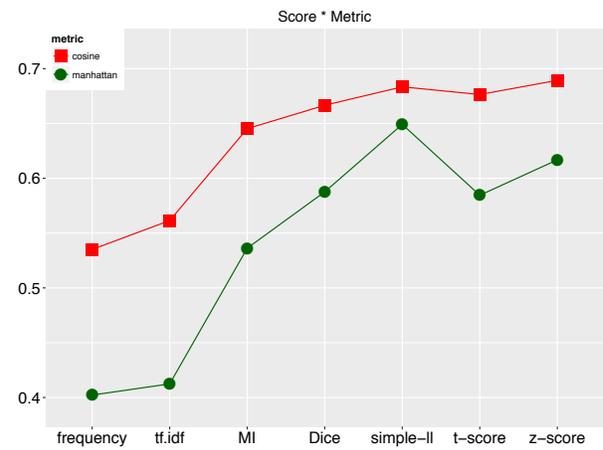


Figure 7.16: RG65, filtered, unreduced



Figure 7.17: RG65, filtered, unreduced

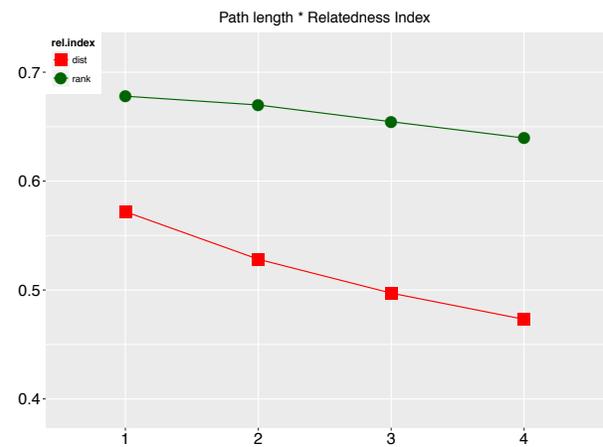


Figure 7.18: RG65, filtered, unreduced

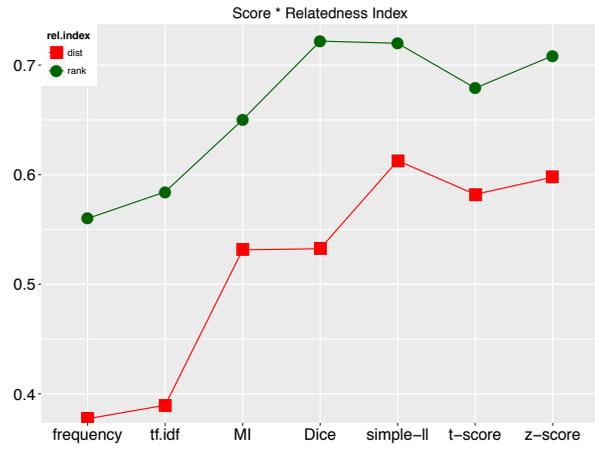


Figure 7.19: RG65, filtered, unreduced

### 7.3.3 Interactions: filtered, reduced

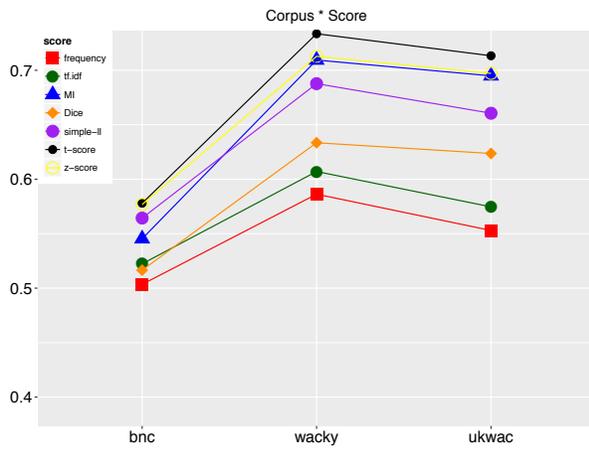


Figure 7.20: RG65, filtered, reduced

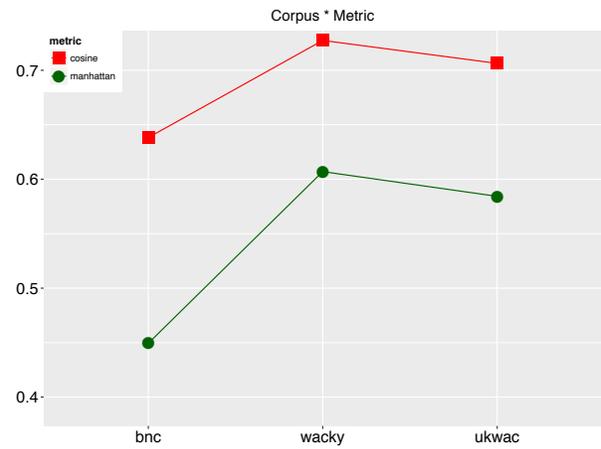


Figure 7.21: RG65, filtered, reduced

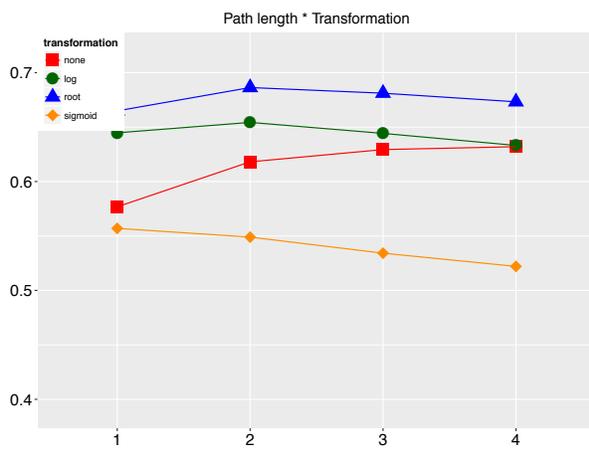


Figure 7.22: RG65, filtered, reduced

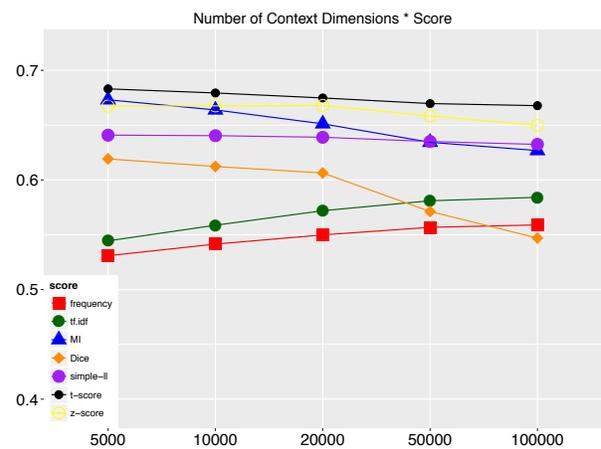


Figure 7.23: RG65, filtered, reduced

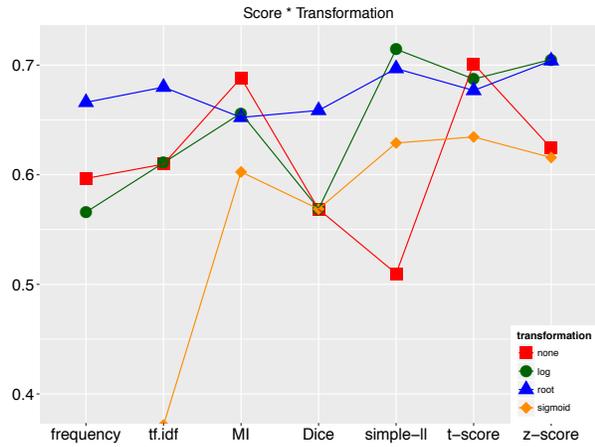


Figure 7.24: RG65,filtered,reduced

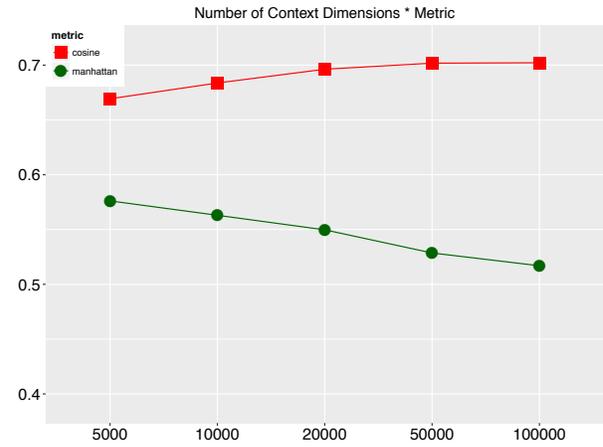


Figure 7.25: RG65,filtered,reduced

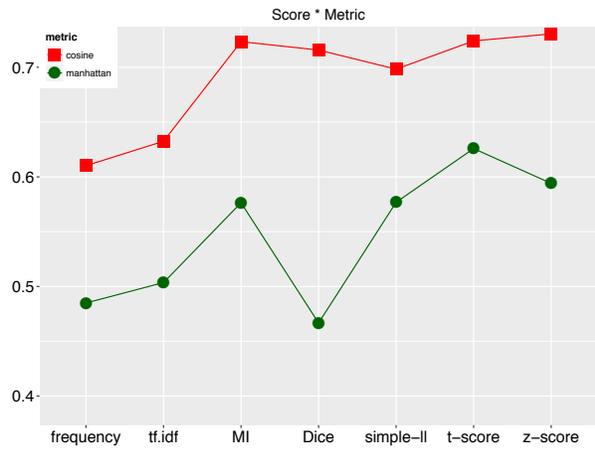


Figure 7.26: RG65,filtered,reduced

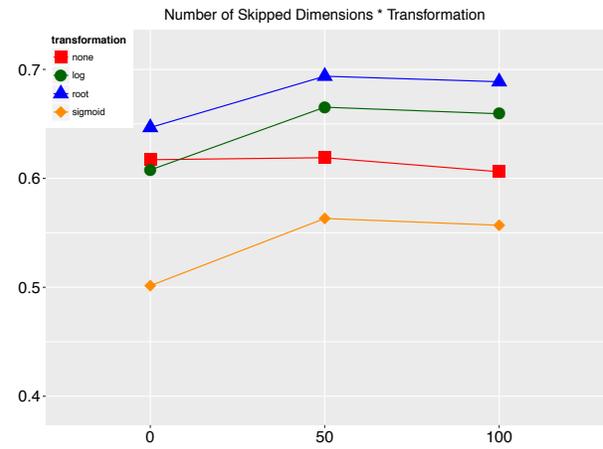


Figure 7.27: RG65,filtered,reduced

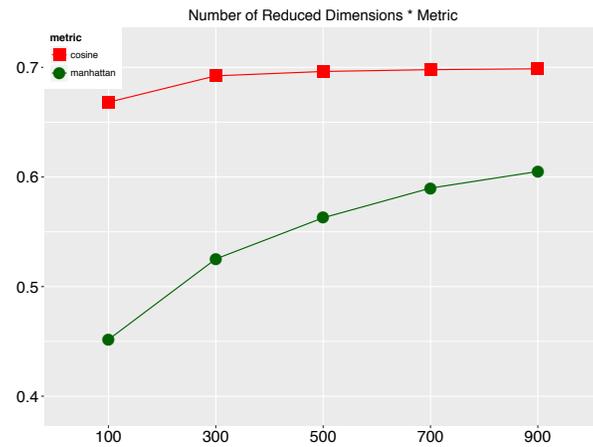


Figure 7.28: RG65,filtered,reduced

### 7.3.4 Interactions: typed, unreduced

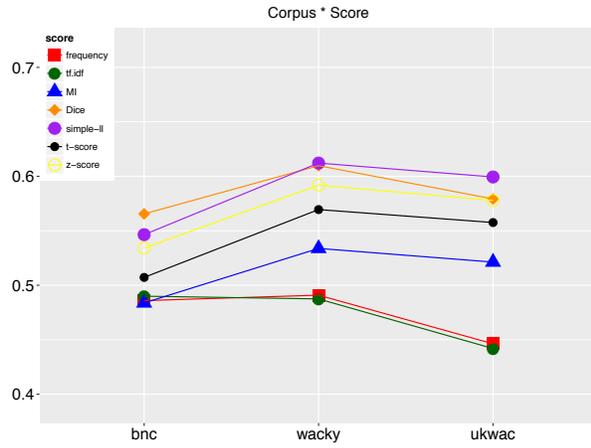


Figure 7.29: RG65,typed,unreduced

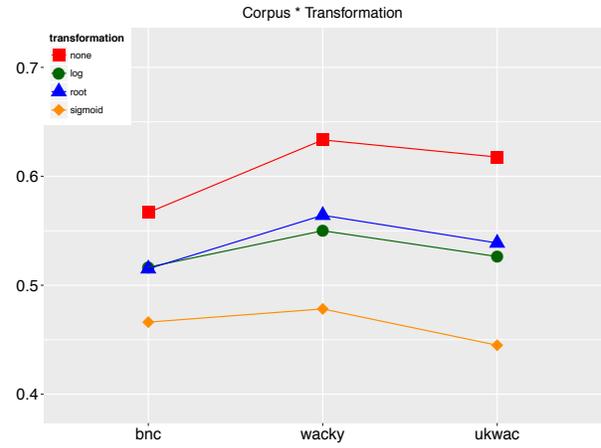


Figure 7.30: RG65,typed,unreduced

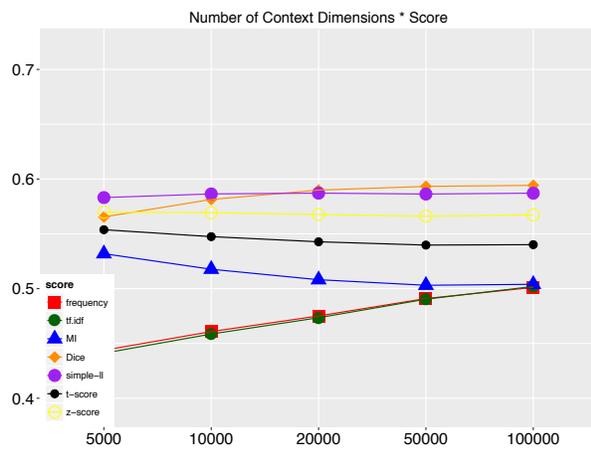


Figure 7.31: RG65,typed,unreduced

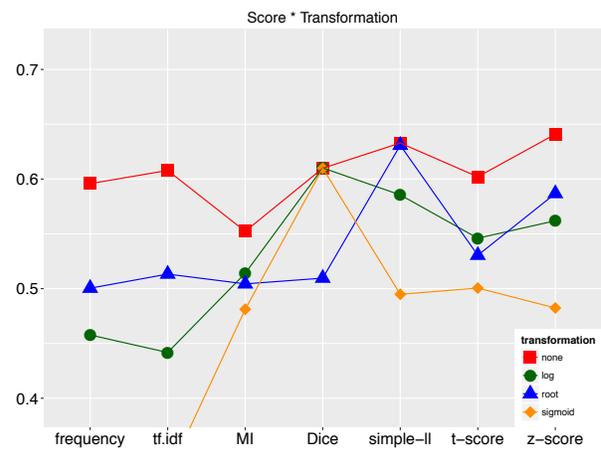


Figure 7.32: RG65,typed,unreduced

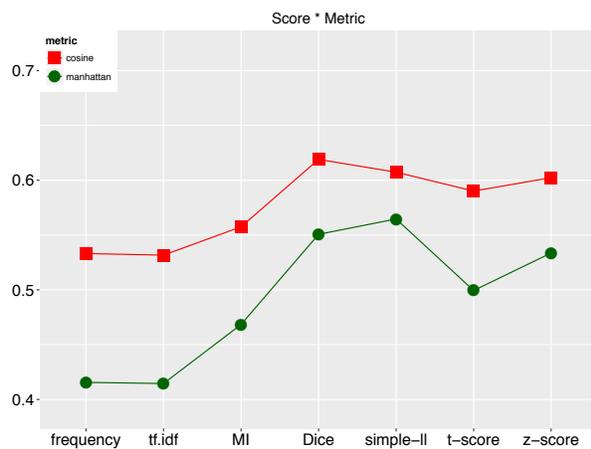


Figure 7.33: RG65,typed,unreduced

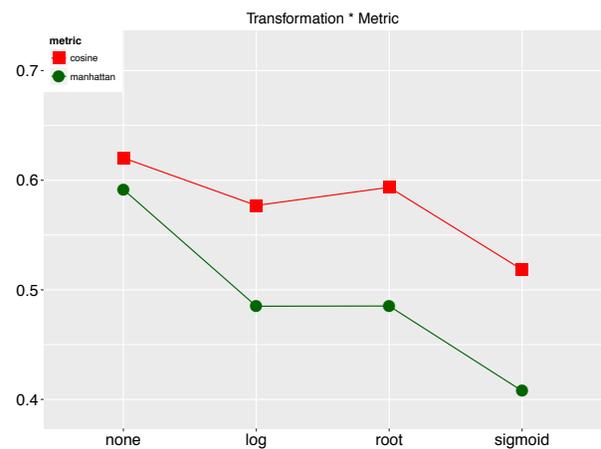


Figure 7.34: RG65,typed,unreduced

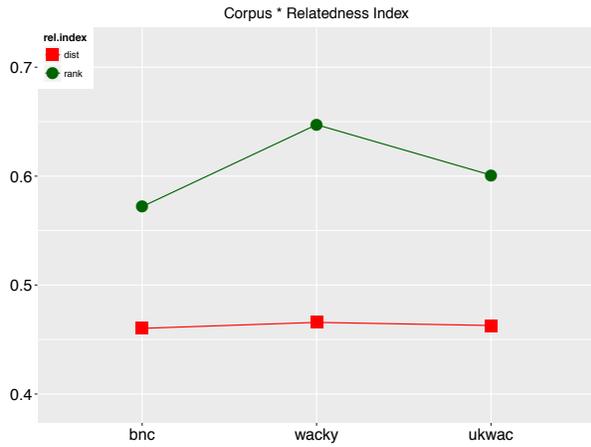


Figure 7.35: RG65,typed,unreduced

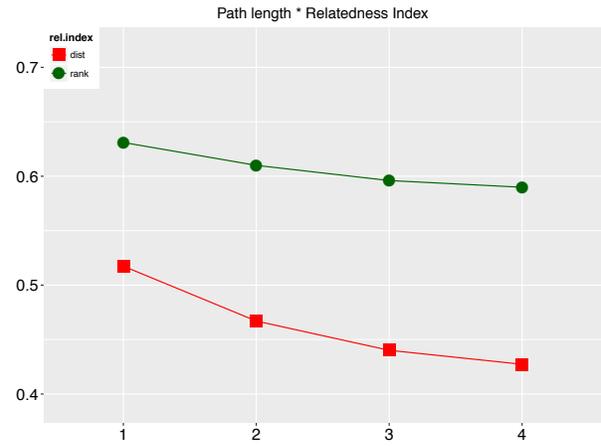


Figure 7.36: RG65,typed,unreduced

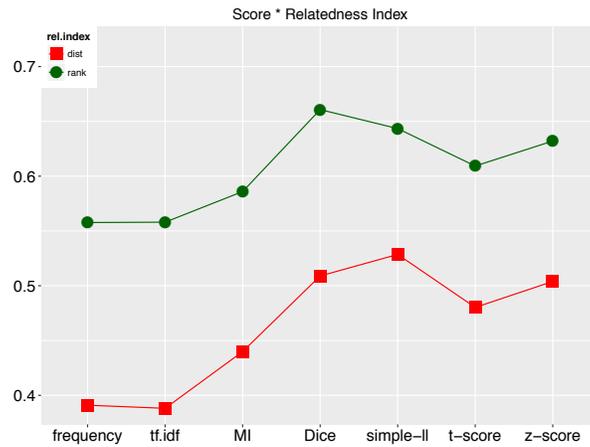


Figure 7.37: RG65,typed,unreduced

### 7.3.5 Interactions: typed, reduced

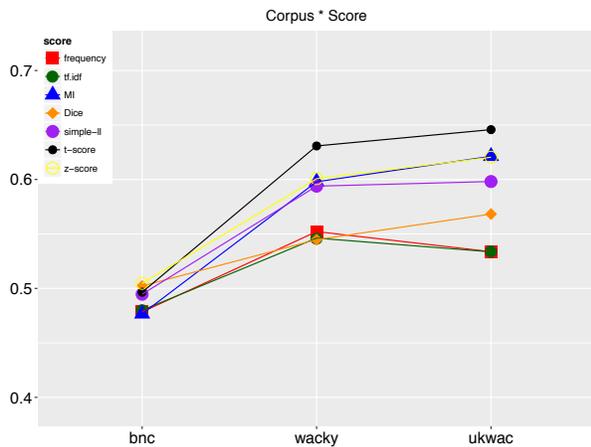


Figure 7.38: RG65,typed,reduced

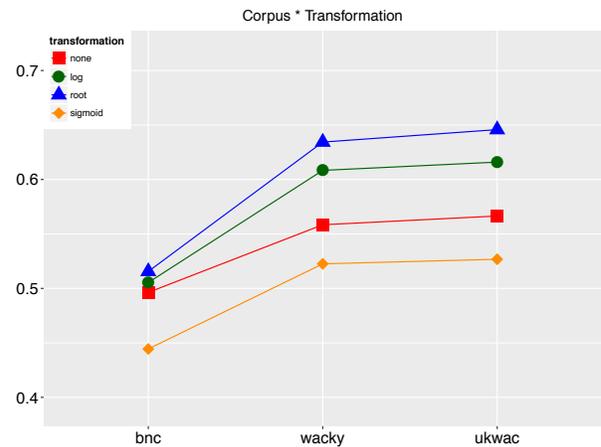


Figure 7.39: RG65,typed,reduced

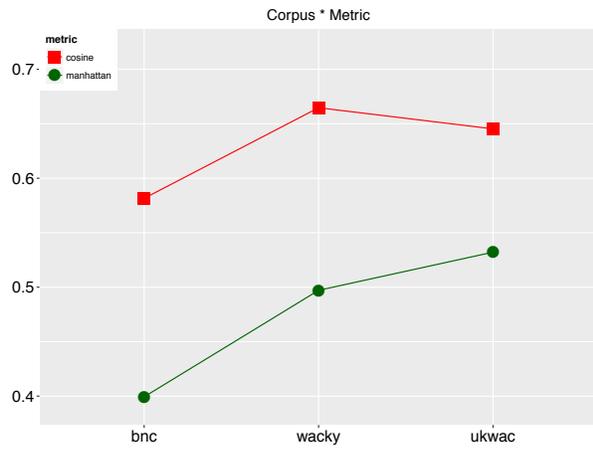


Figure 7.40: RG65,typed,reduced

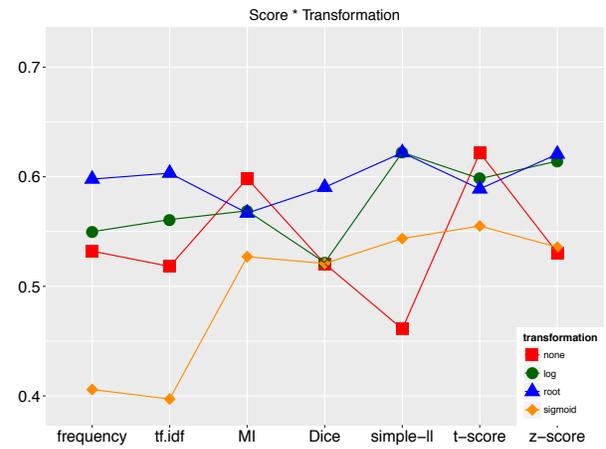


Figure 7.41: RG65,typed,reduced

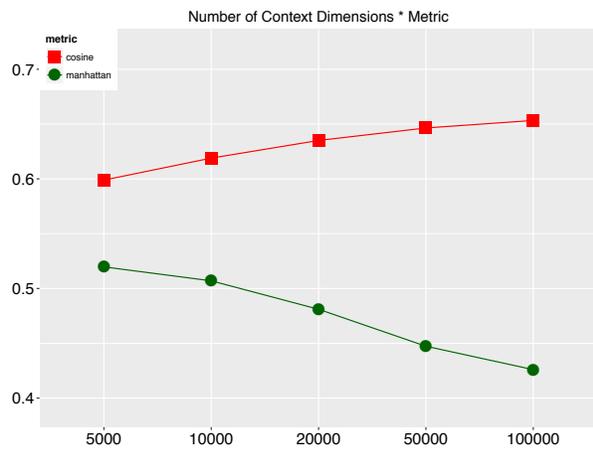


Figure 7.42: RG65,typed,reduced

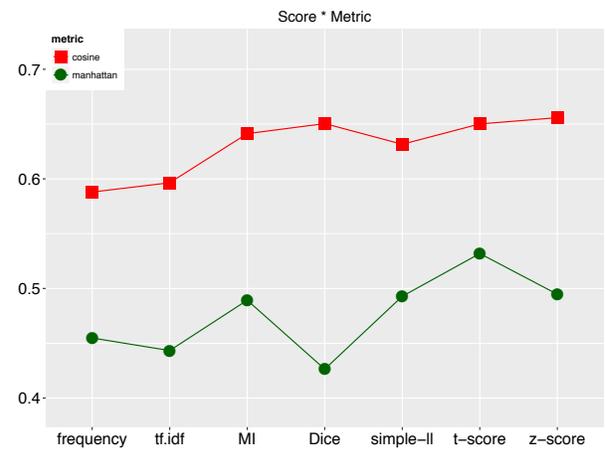


Figure 7.43: RG65,typed,reduced

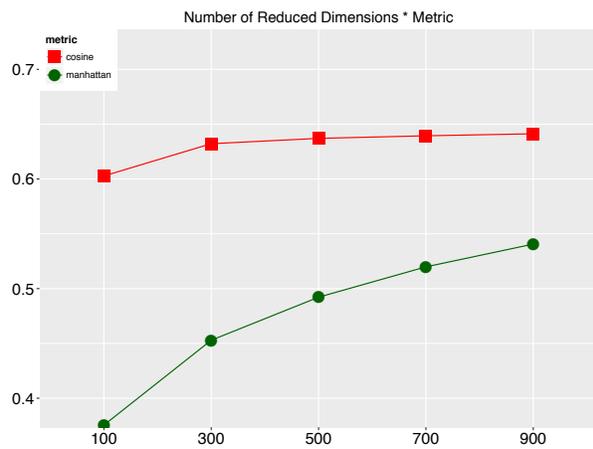


Figure 7.44: RG65,typed,reduced

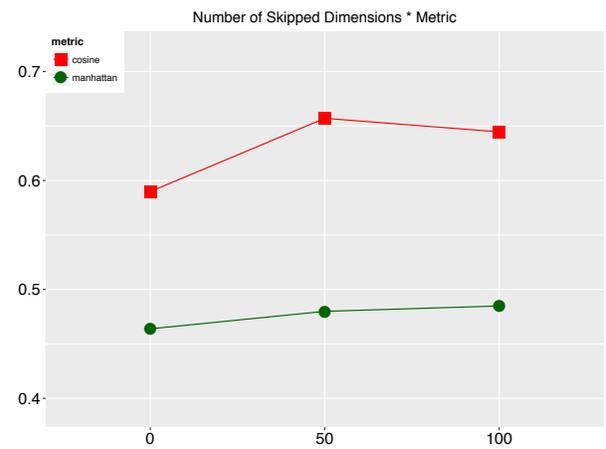


Figure 7.45: RG65,typed,reduced

## 7.4 AP

### 7.4.1 Main Effects

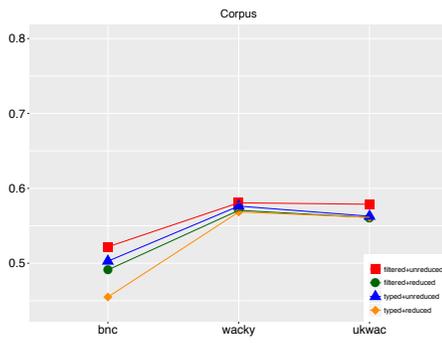


Figure 7.1

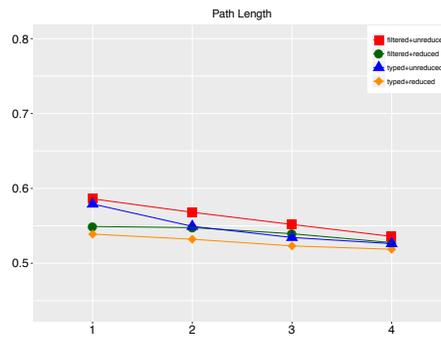


Figure 7.2

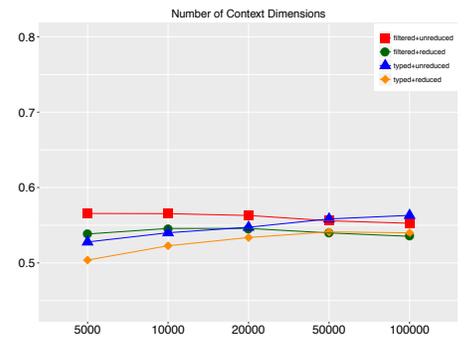


Figure 7.3

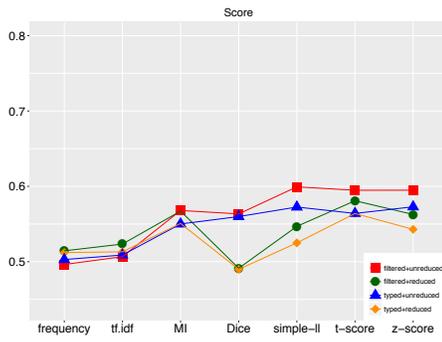


Figure 7.4

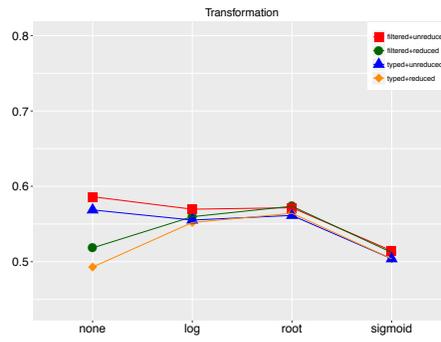


Figure 7.5

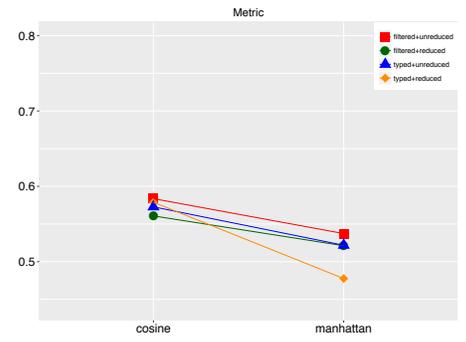


Figure 7.6

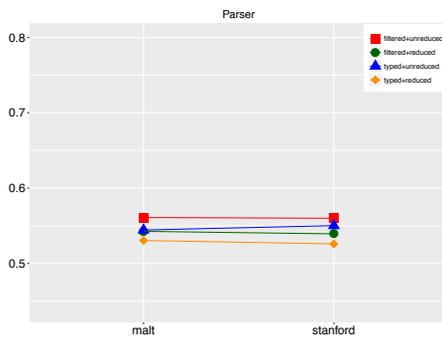


Figure 7.7

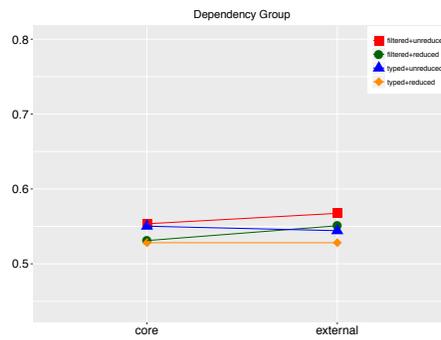


Figure 7.8

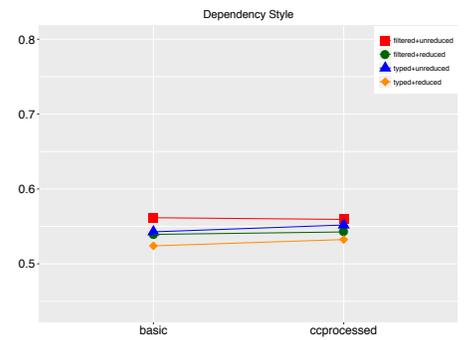


Figure 7.9

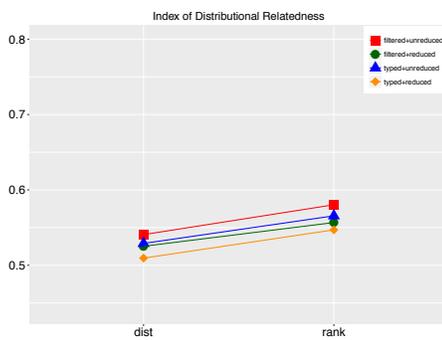


Figure 7.10

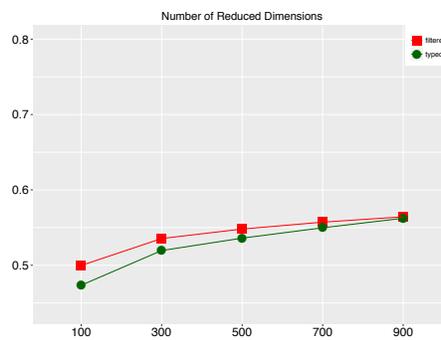


Figure 7.11

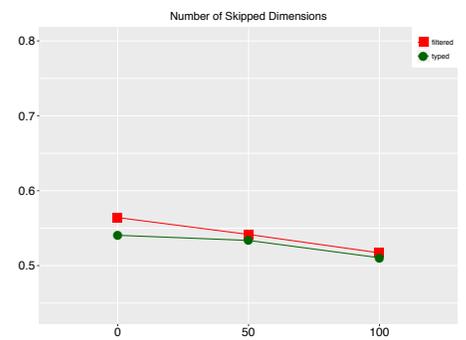


Figure 7.12

## 7.4.2 Interactions: filtered, unreduced

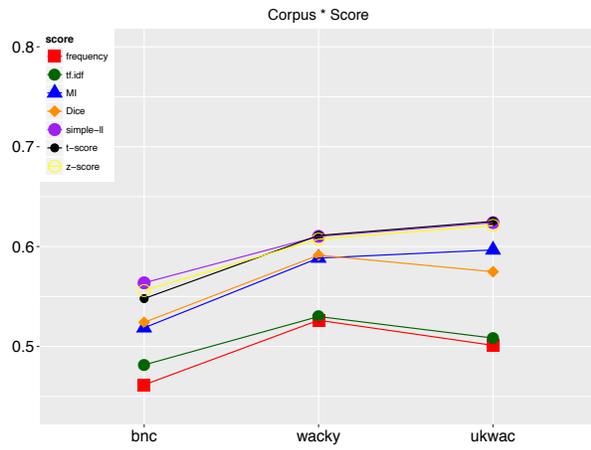


Figure 7.13: AP,filtered,unreduced

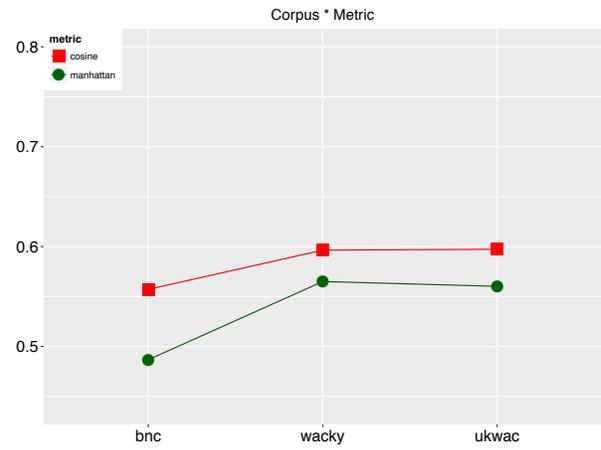


Figure 7.14: AP, filtered, unreduced

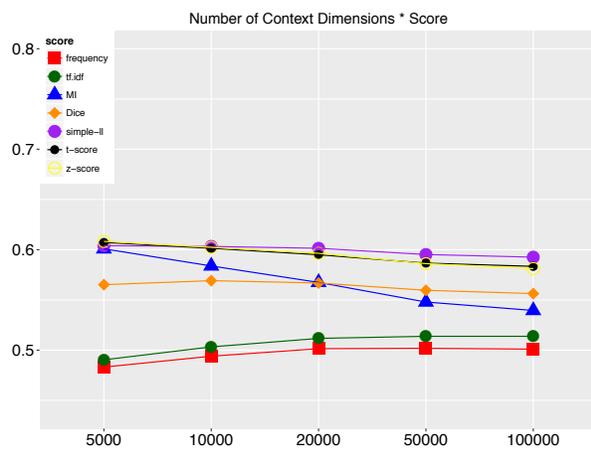


Figure 7.15: AP,filtered,unreduced

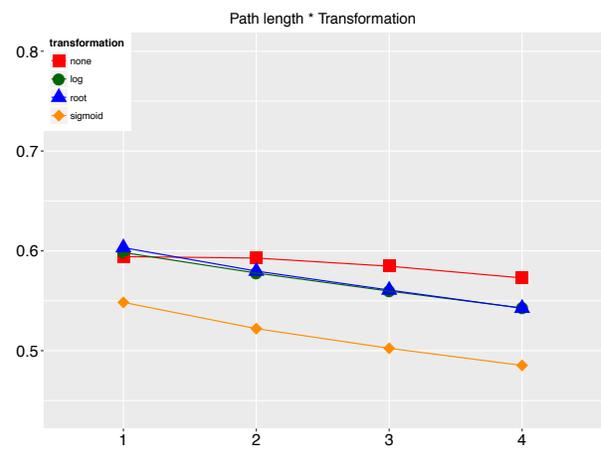


Figure 7.16: AP, filtered, unreduced

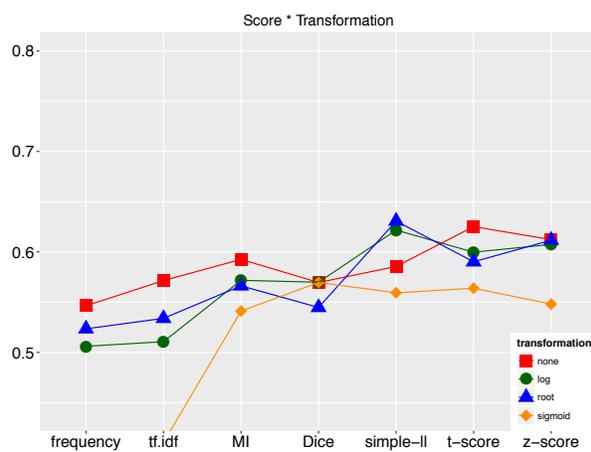


Figure 7.17: AP,filtered,unreduced

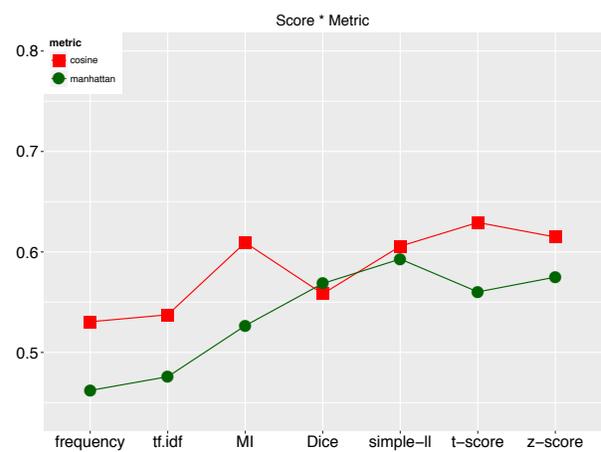


Figure 7.18: AP, filtered, unreduced

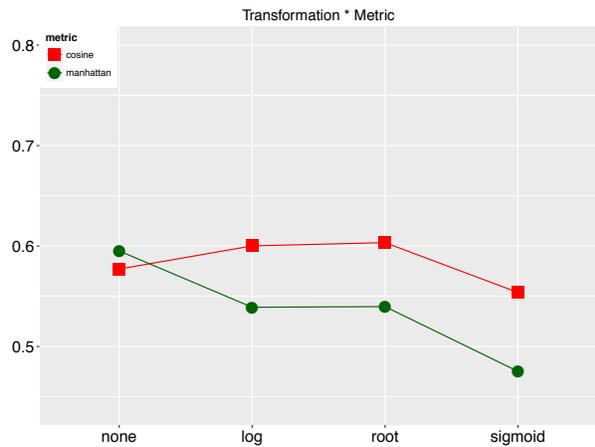


Figure 7.19: AP,filtered,unreduced

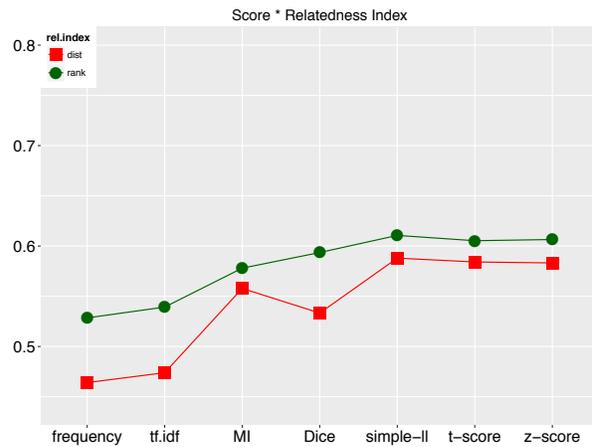


Figure 7.20: AP, filtered, unreduced

### 7.4.3 Interactions: filtered, reduced

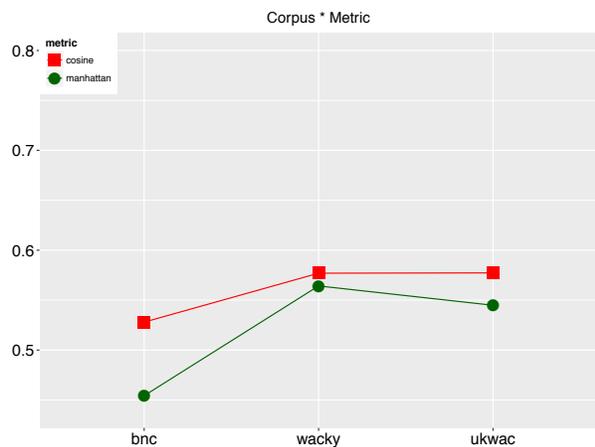


Figure 7.21: AP,filtered,reduced

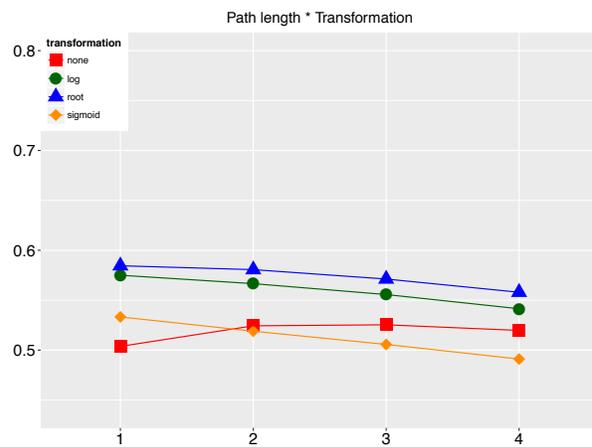


Figure 7.22: AP,filtered,reduced

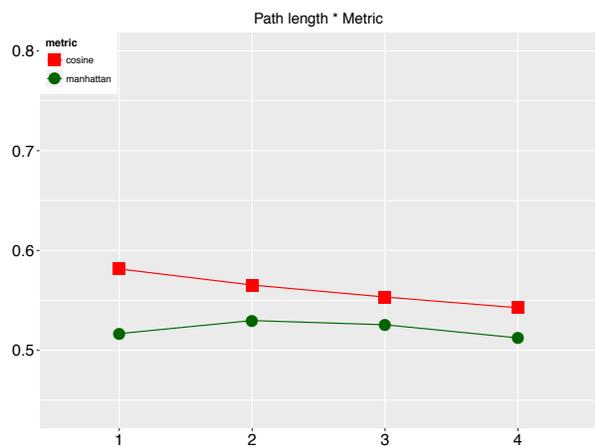


Figure 7.23: AP,filtered,reduced

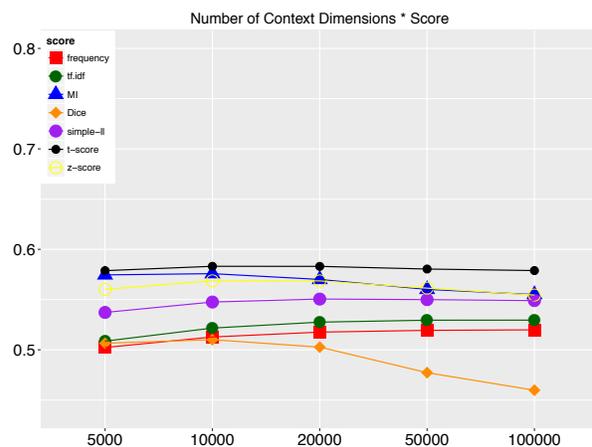


Figure 7.24: AP,filtered,reduced

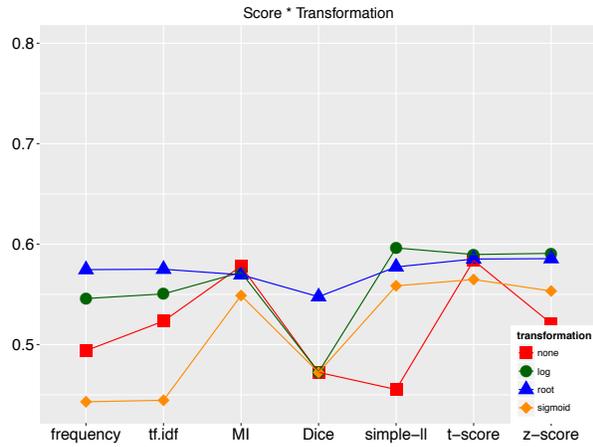


Figure 7.25: AP,filtered, reduced

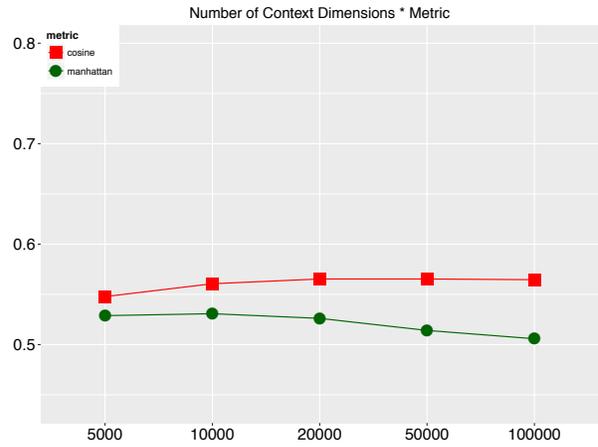


Figure 7.26: AP,filtered, reduced

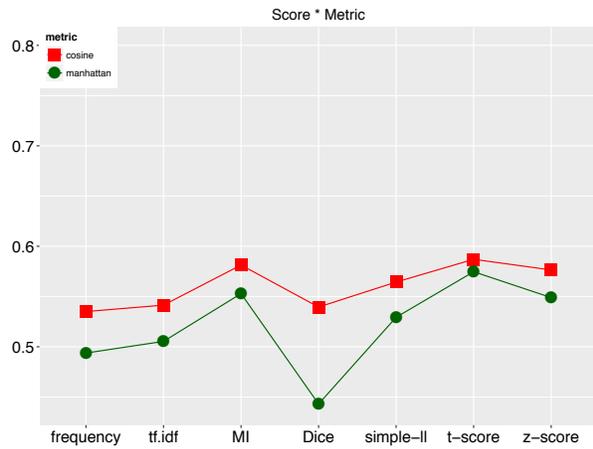


Figure 7.27: AP,filtered, reduced

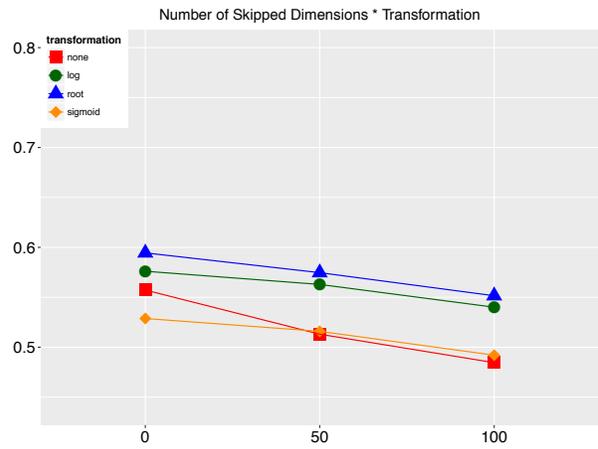


Figure 7.28: AP,filtered, reduced

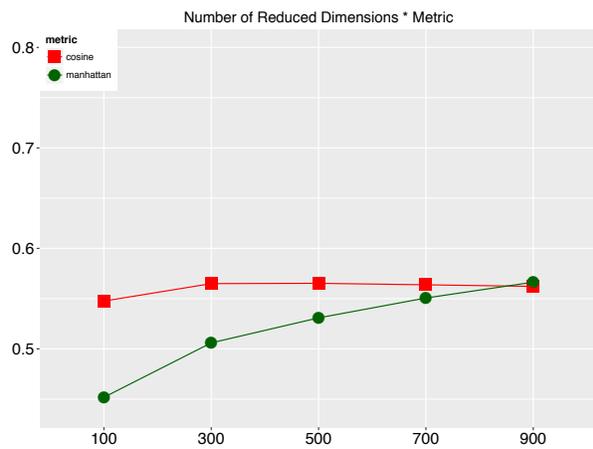


Figure 7.29: AP,filtered, reduced

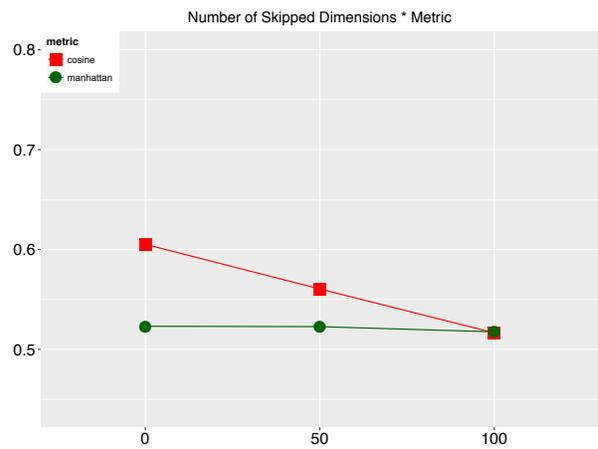


Figure 7.30: AP,filtered, reduced

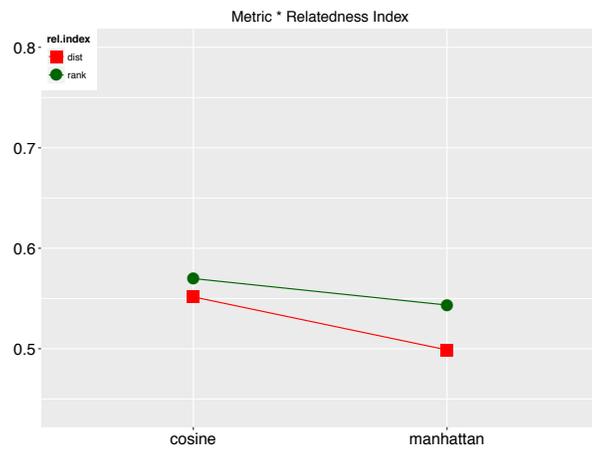


Figure 7.31: AP,filtered,reduced

## 7.4.4 Interactions: typed, unreduced

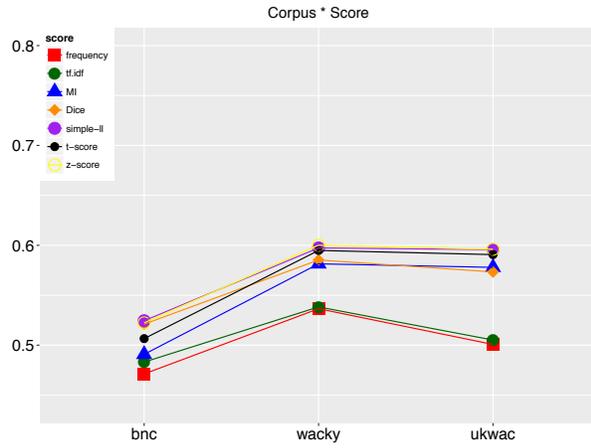


Figure 7.32: AP,typed,unreduced

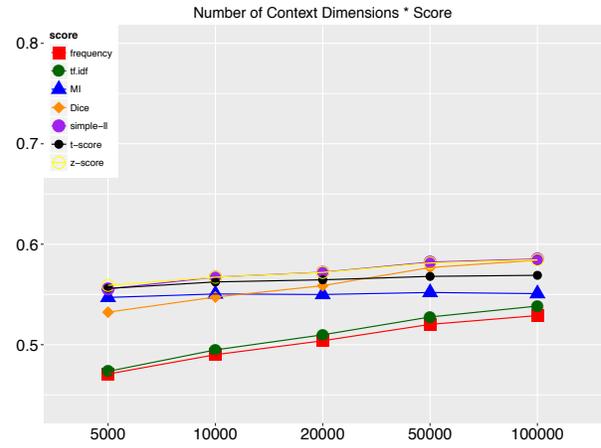


Figure 7.33: AP,typed,unreduced

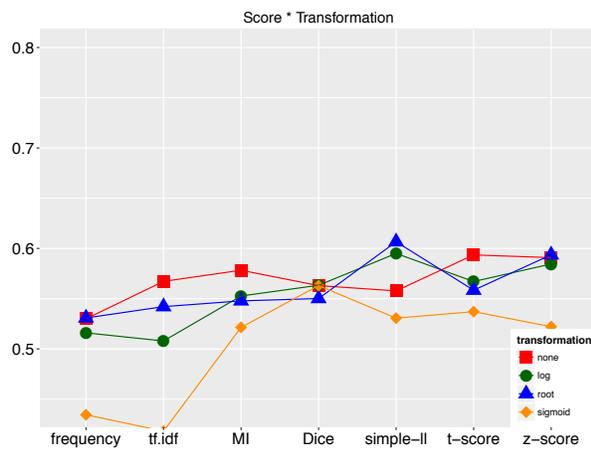


Figure 7.34: AP,typed,unreduced

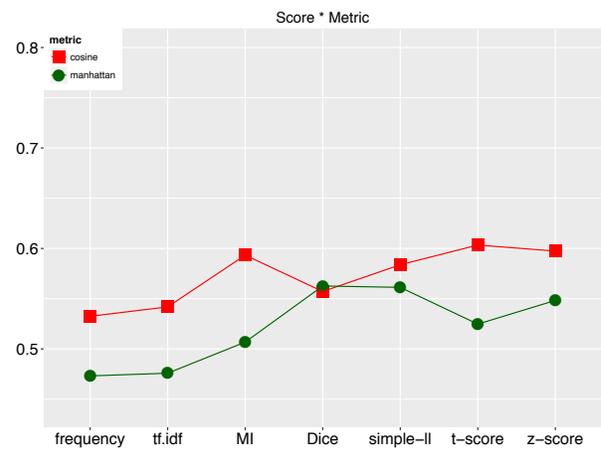


Figure 7.35: AP,typed,unreduced



Figure 7.36: AP,typed,unreduced

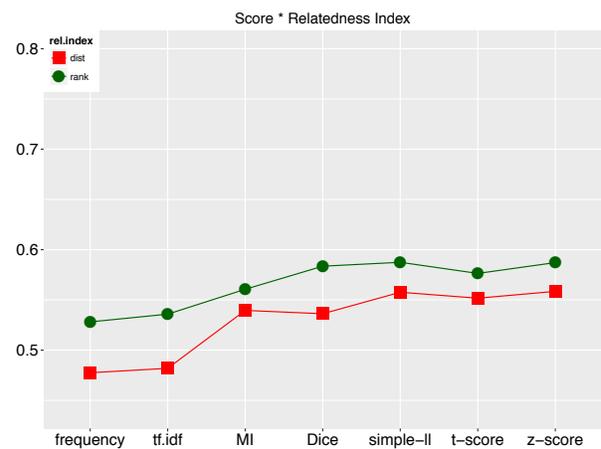


Figure 7.37: AP,typed,unreduced

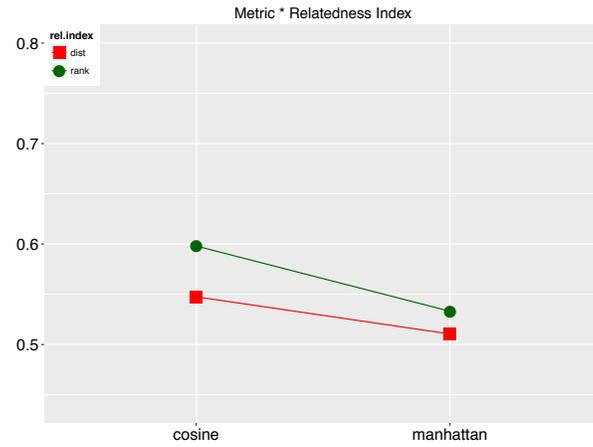


Figure 7.38: AP,typed,unreduced

### 7.4.5 Interactions: typed, reduced

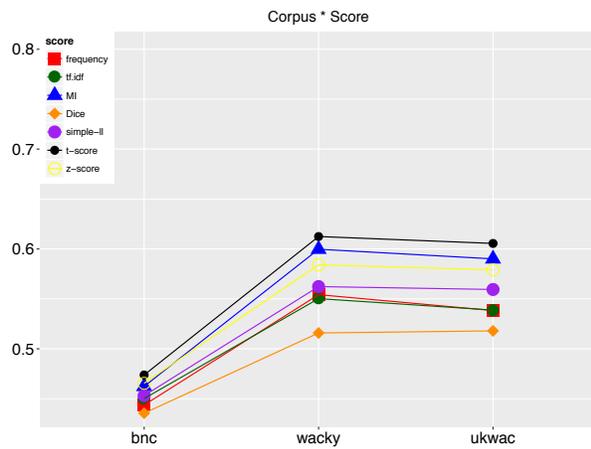


Figure 7.39: AP,typed,reduced

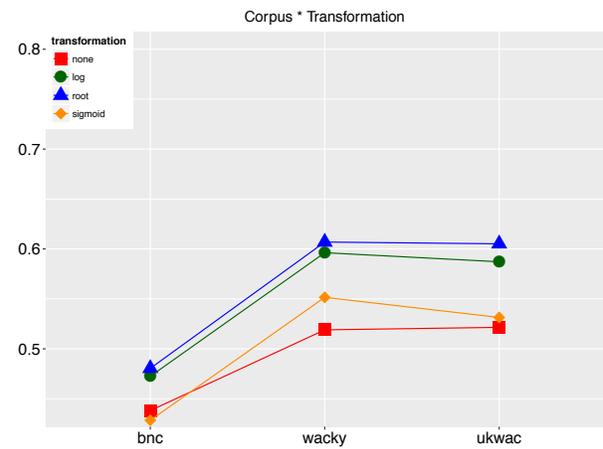


Figure 7.40: AP,typed,reduced

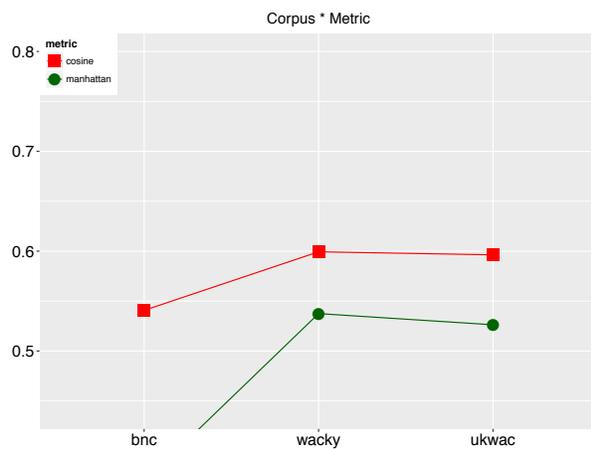


Figure 7.41: AP,typed,reduced

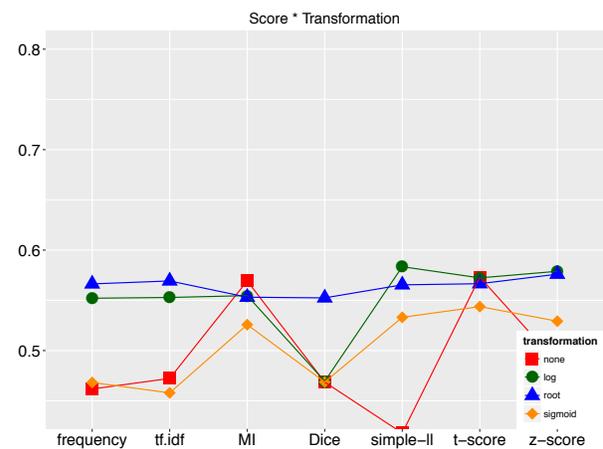


Figure 7.42: AP,typed,reduced

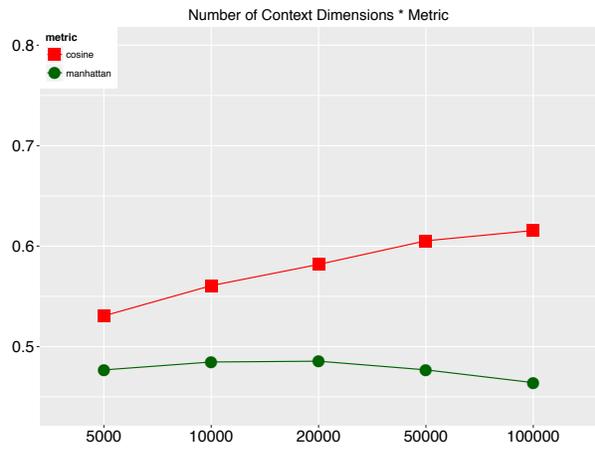


Figure 7.43: AP,typed,reduced

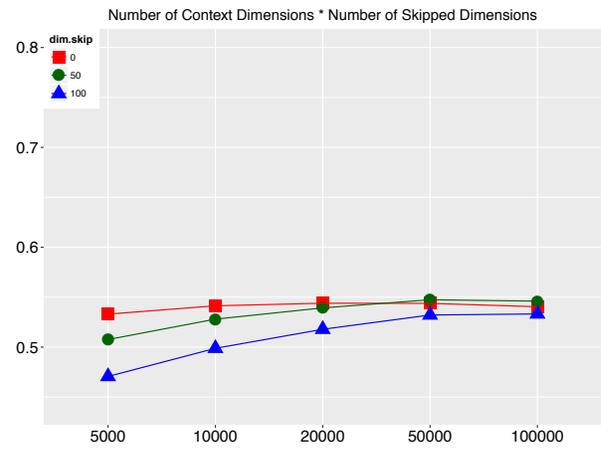


Figure 7.44: AP,typed,reduced

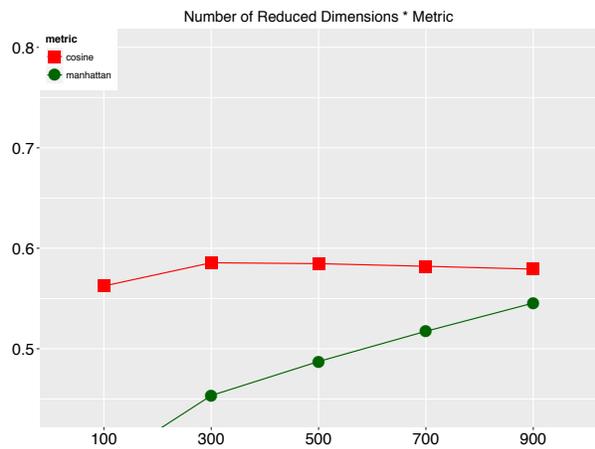


Figure 7.45: AP,typed,reduced

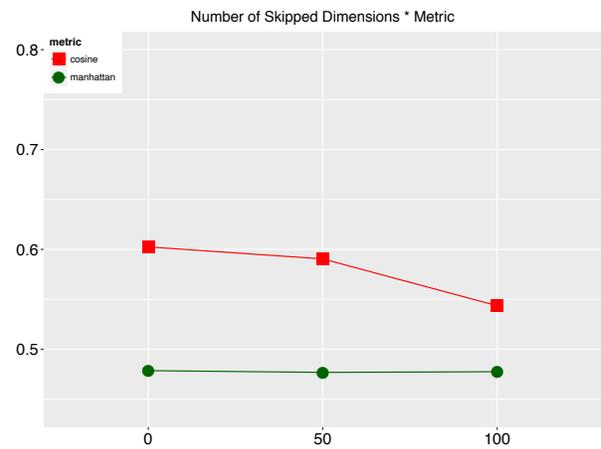


Figure 7.46: AP,typed,reduced

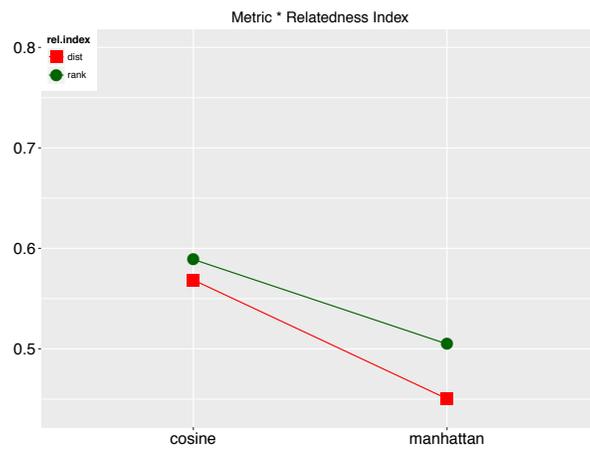


Figure 7.47: AP,typed,reduced

## 7.5 BATTIG

### 7.5.1 Main Effects

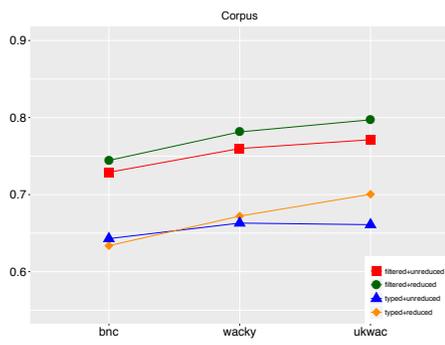


Figure 7.1

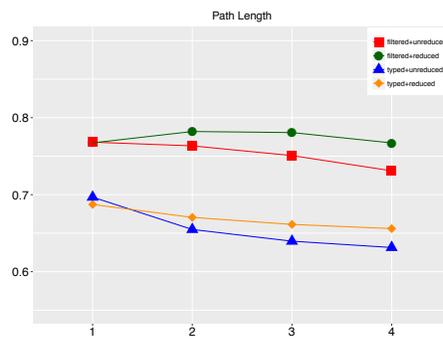


Figure 7.2

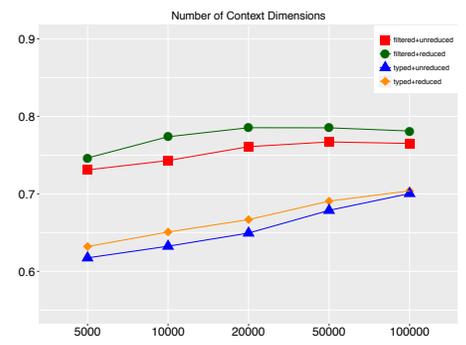


Figure 7.3

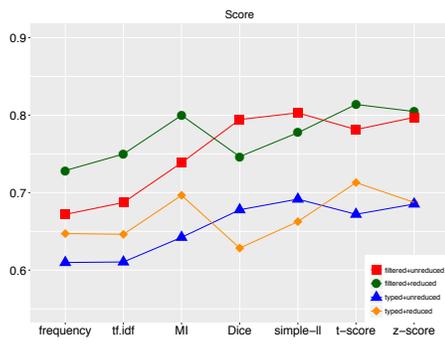


Figure 7.4

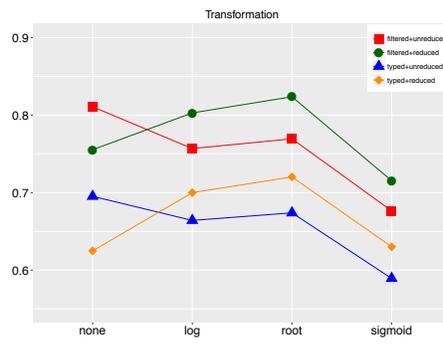


Figure 7.5

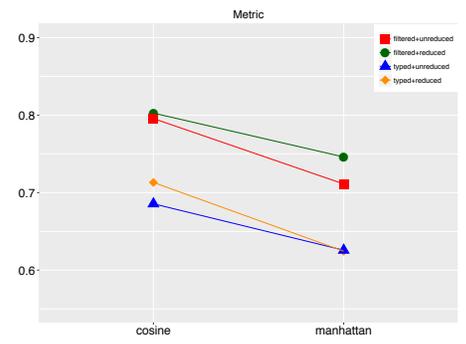


Figure 7.6

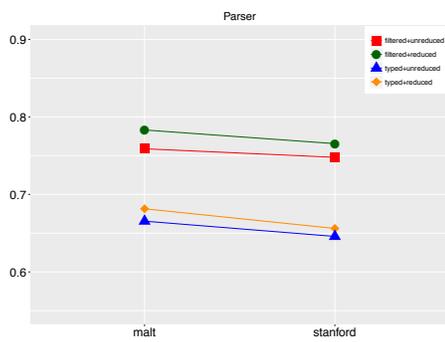


Figure 7.7

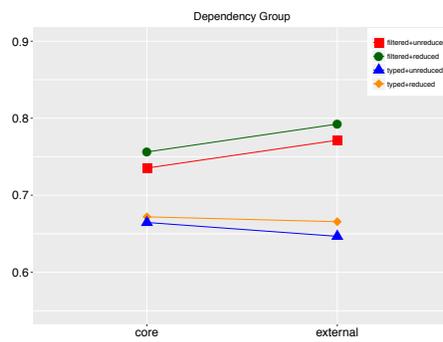


Figure 7.8

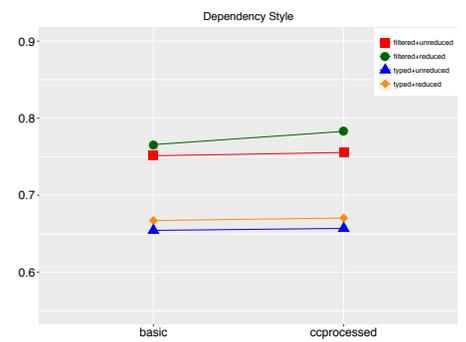


Figure 7.9

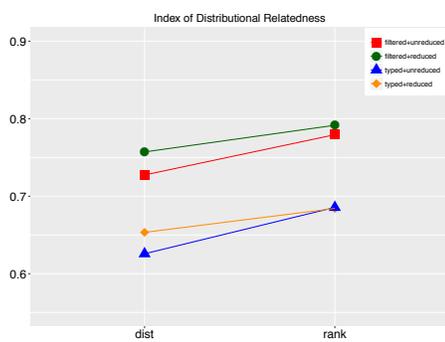


Figure 7.10

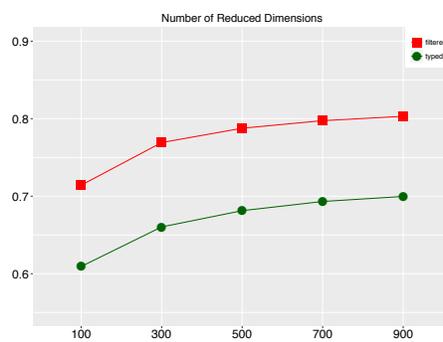


Figure 7.11

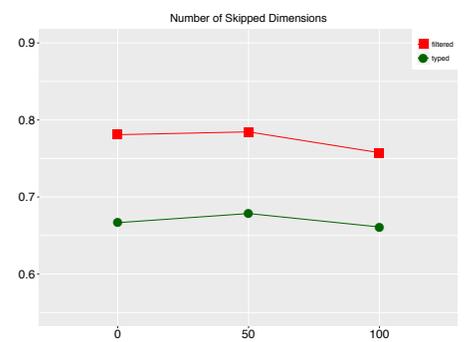


Figure 7.12

## 7.5.2 Interactions: filtered, unreduced

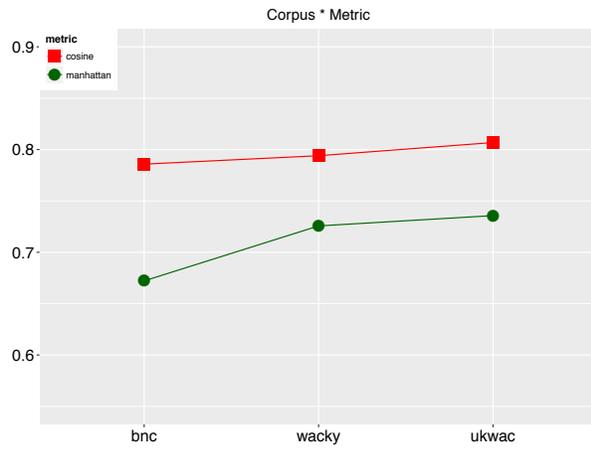


Figure 7.13: BATTIG, filtered, unreduced

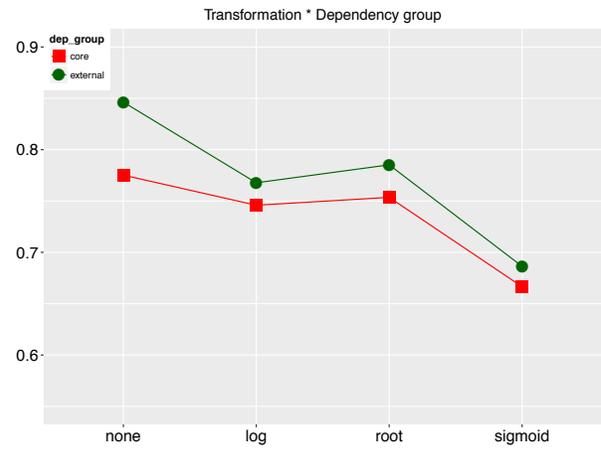


Figure 7.14: BATTIG, filtered, unreduced

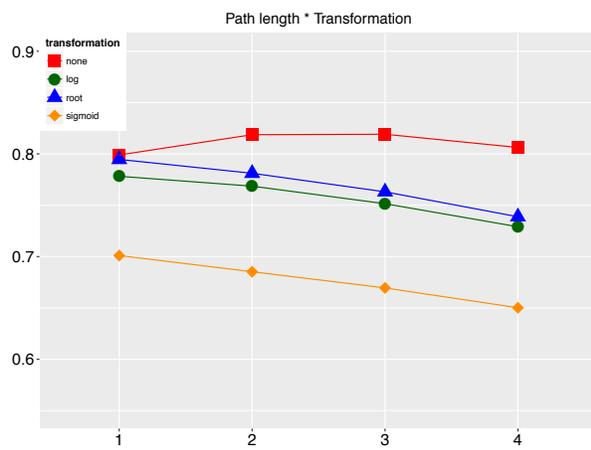


Figure 7.15: BATTIG, filtered, unreduced

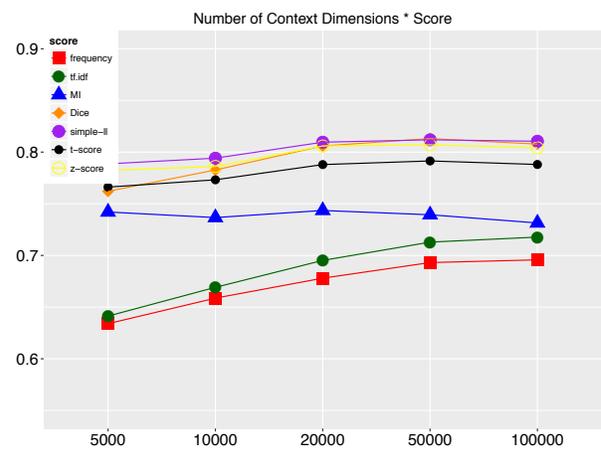


Figure 7.16: BATTIG, filtered, unreduced

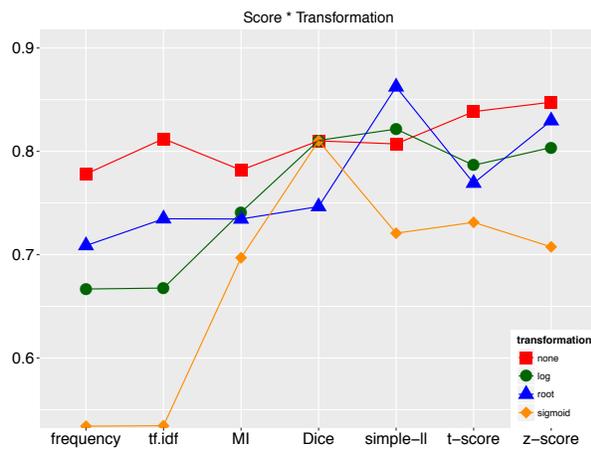


Figure 7.17: BATTIG, filtered, unreduced

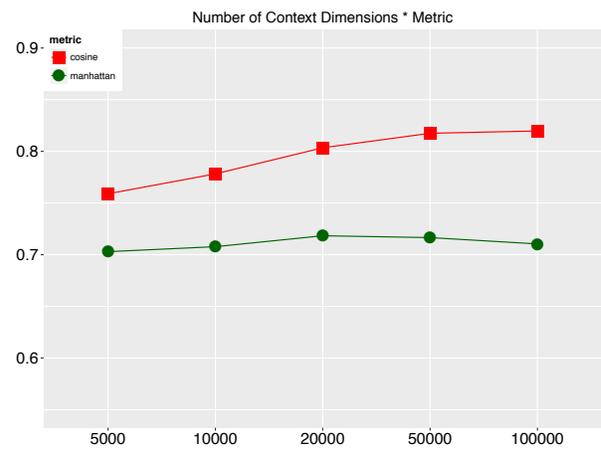


Figure 7.18: BATTIG, filtered, unreduced

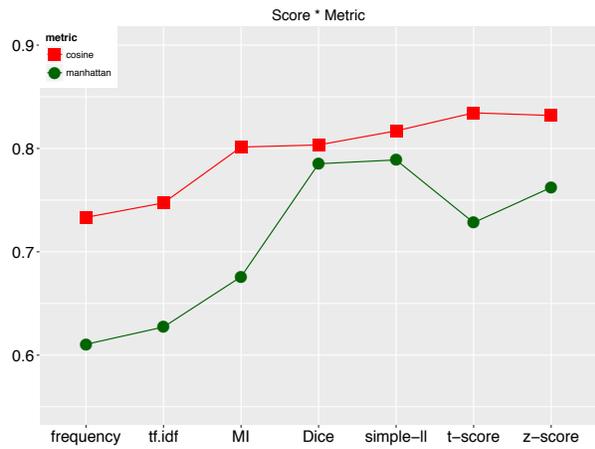


Figure 7.19: BATTIG, filtered, unreduced

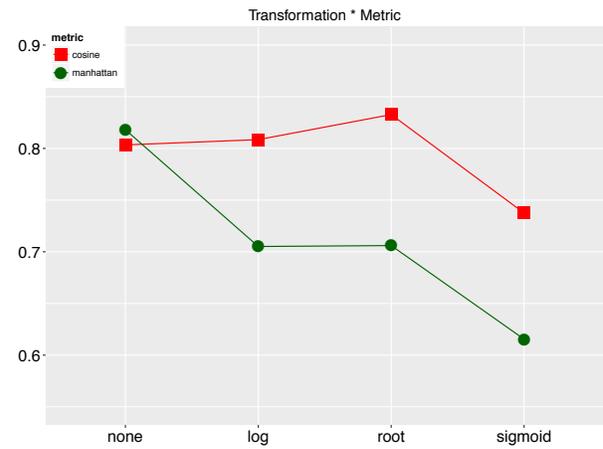


Figure 7.20: BATTIG, filtered, unreduced

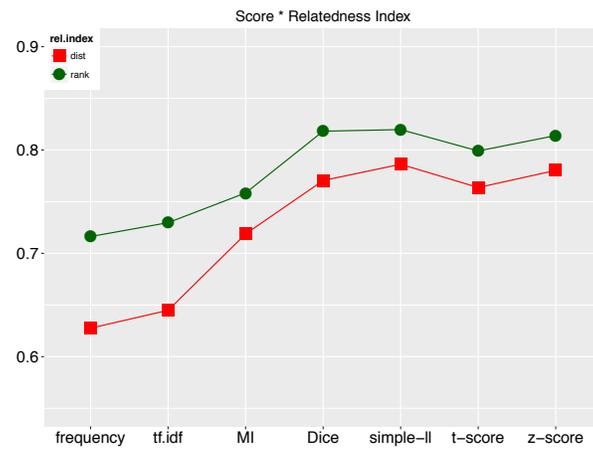


Figure 7.21: BATTIG, filtered, unreduced

### 7.5.3 Interactions: filtered, reduced

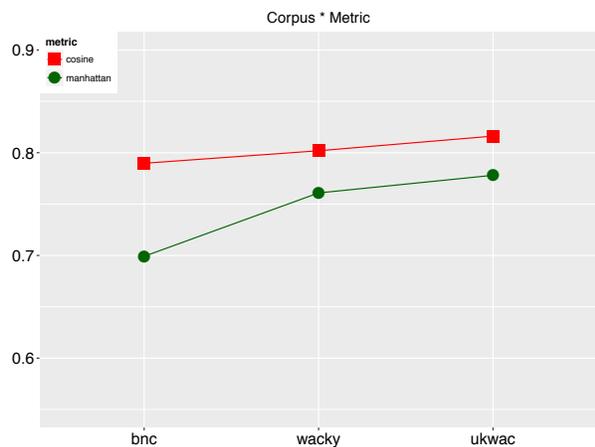


Figure 7.22: BATTIG, filtered, reduced

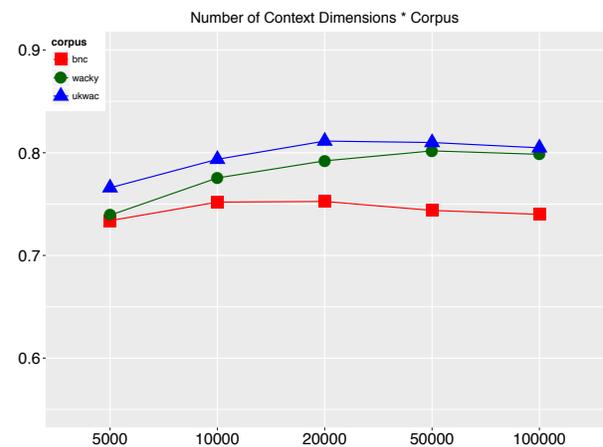


Figure 7.23: BATTIG, filtered, reduced

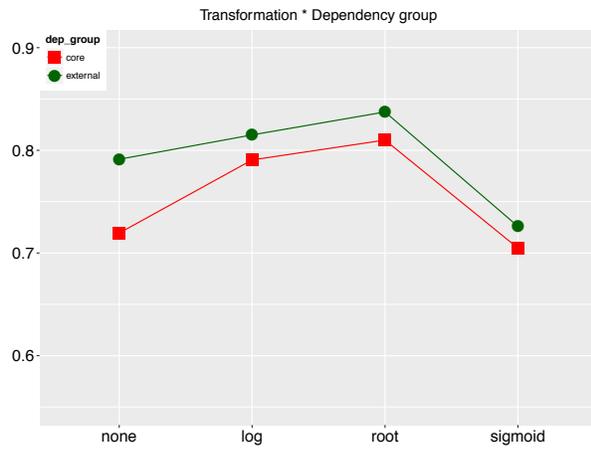


Figure 7.24: BATTIG,filtered,reduced

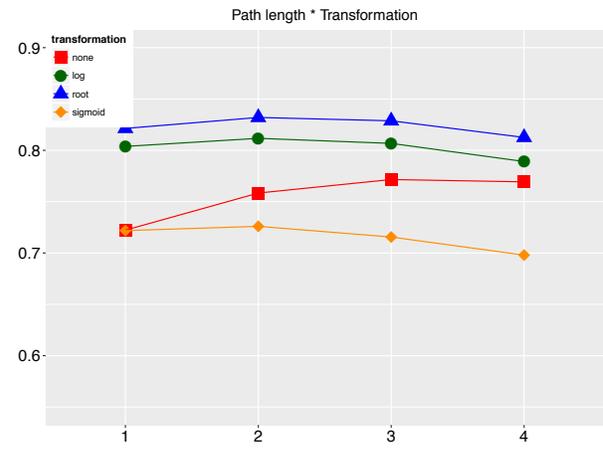


Figure 7.25: BATTIG,filtered,reduced

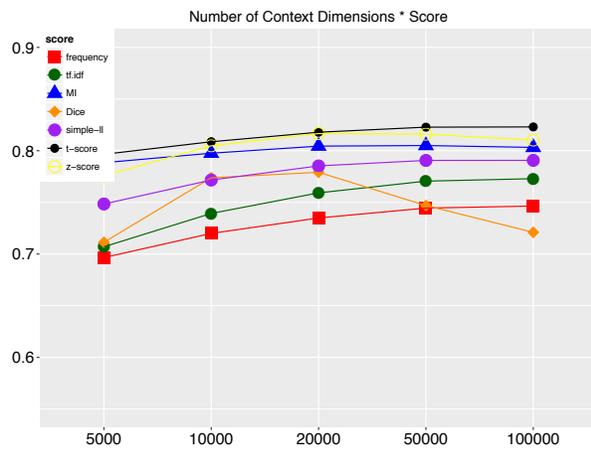


Figure 7.26: BATTIG,filtered,reduced

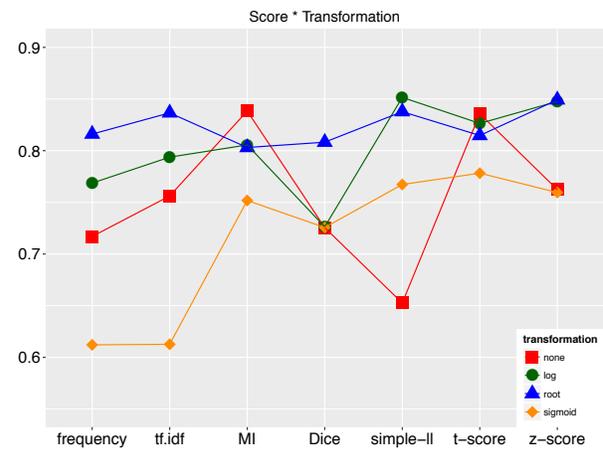


Figure 7.27: BATTIG,filtered,reduced

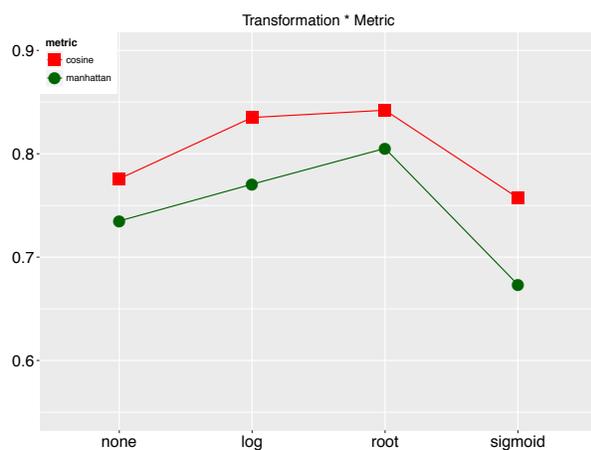


Figure 7.28: BATTIG,filtered,reduced

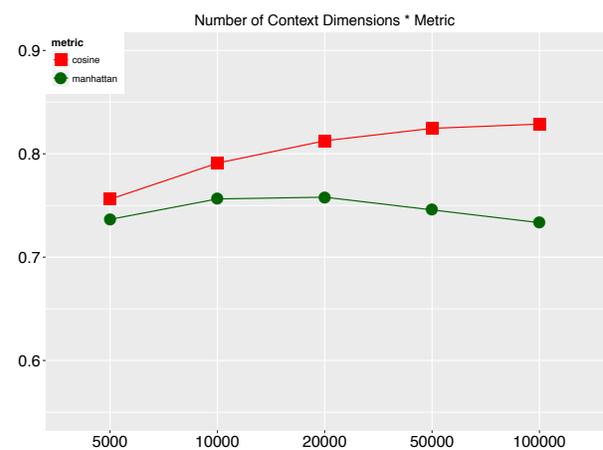


Figure 7.29: BATTIG,filtered,reduced

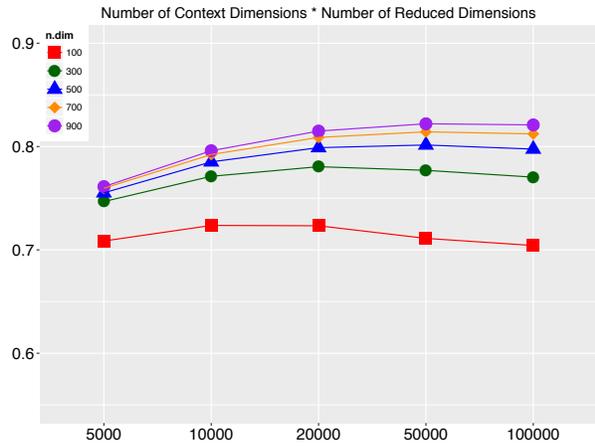


Figure 7.30: BATTIG,filtered,reduced

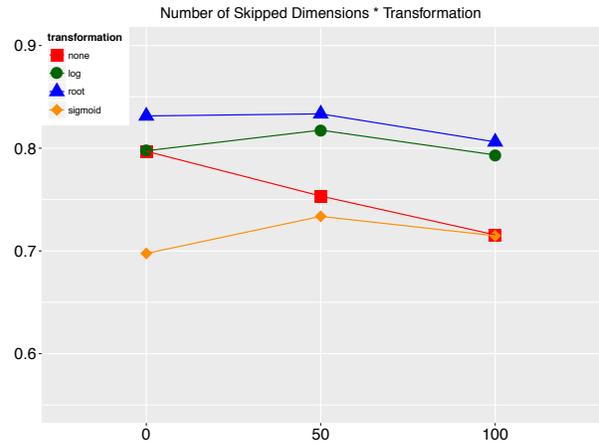


Figure 7.31: BATTIG,filtered,reduced

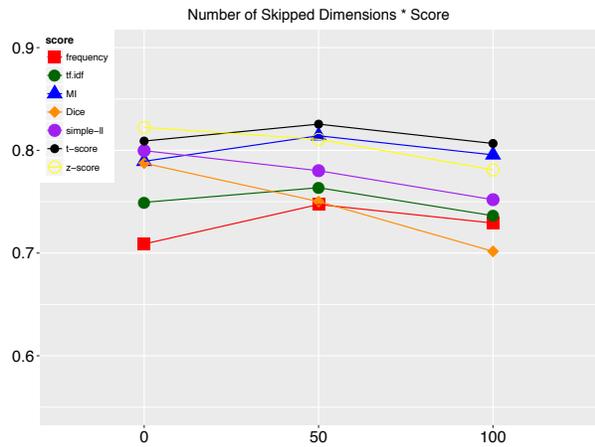


Figure 7.32: BATTIG,filtered,reduced

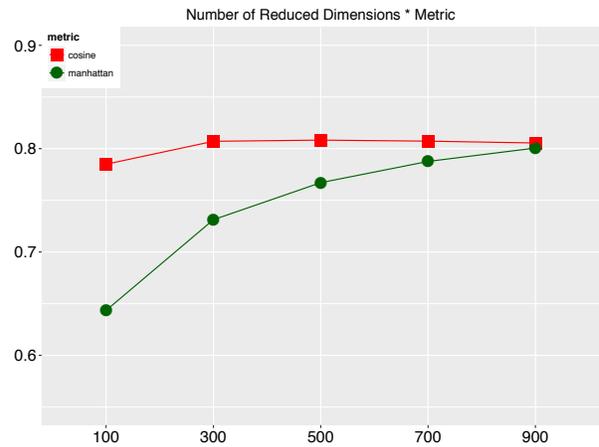


Figure 7.33: BATTIG,filtered,reduced

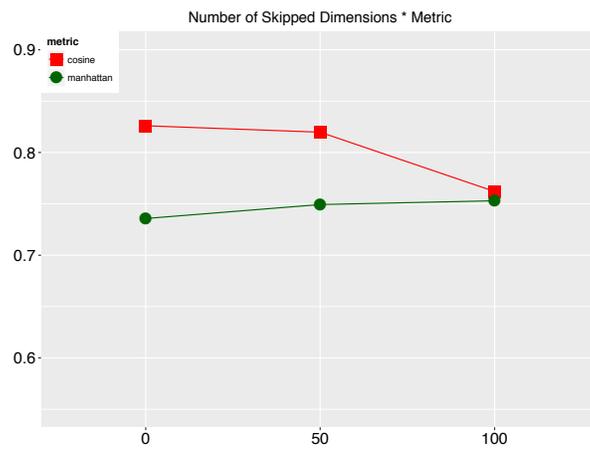


Figure 7.34: BATTIG,filtered,reduced

## 7.5.4 Interactions: typed, unreduced

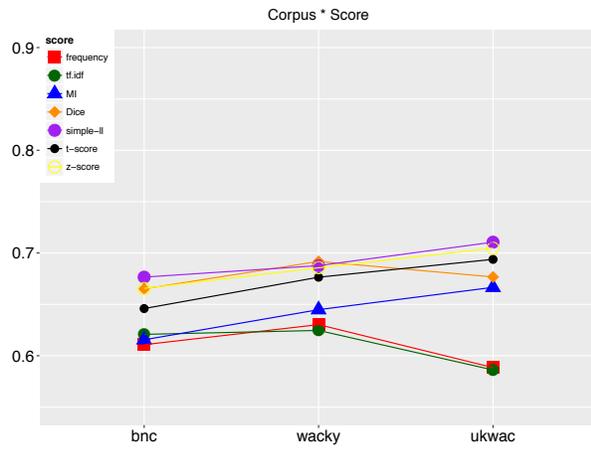


Figure 7.35: BATTIG,typed,unreduced

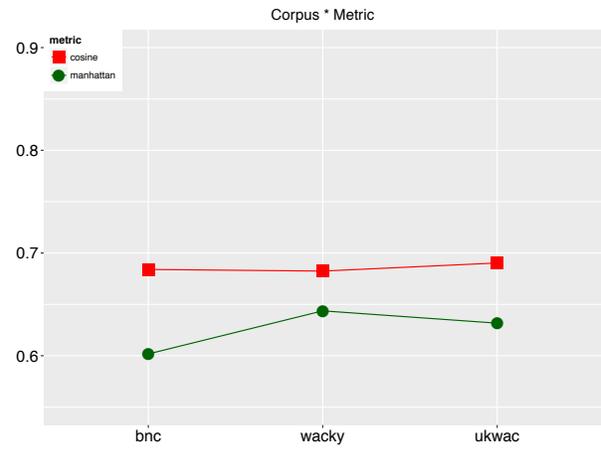


Figure 7.36: BATTIG,typed,unreduced

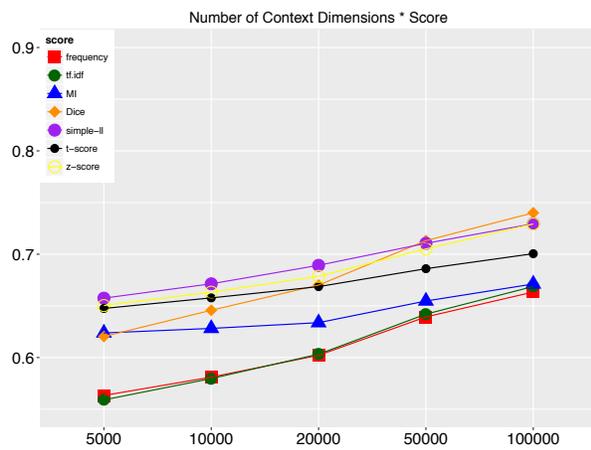


Figure 7.37: BATTIG,typed,unreduced

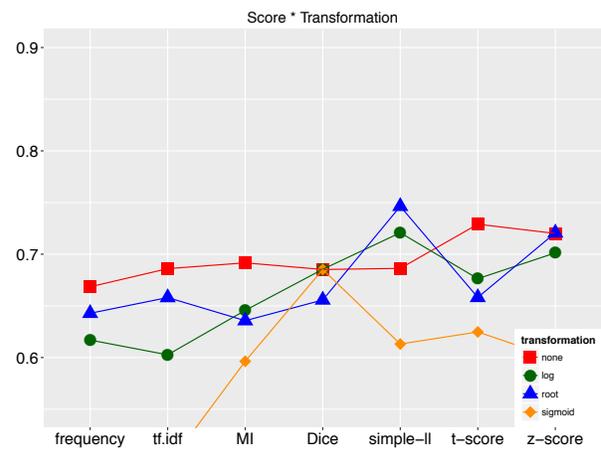


Figure 7.38: BATTIG,typed,unreduced

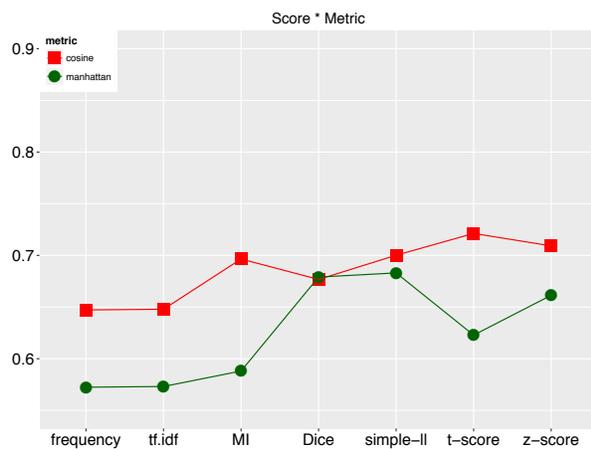


Figure 7.39: BATTIG,typed,unreduced

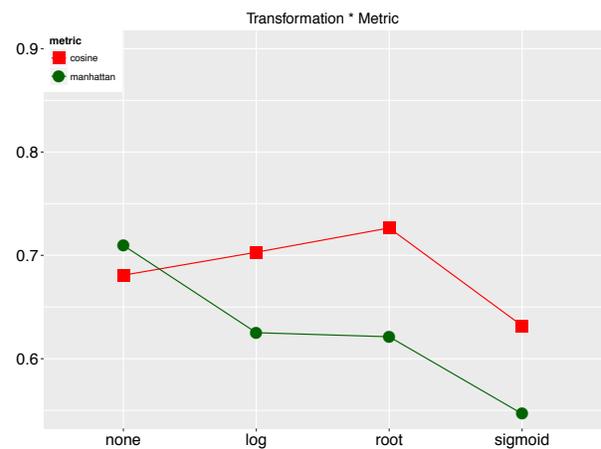


Figure 7.40: BATTIG,typed,unreduced

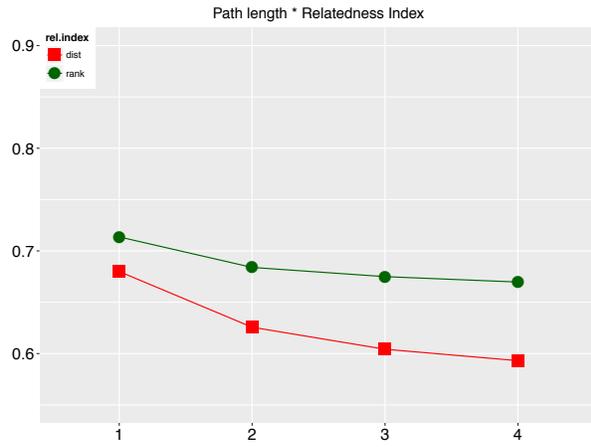


Figure 7.41: BATTIG,typed,unreduced

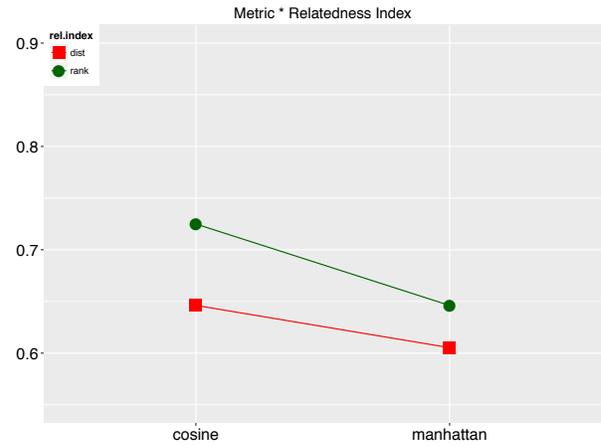


Figure 7.42: BATTIG,typed,unreduced

### 7.5.5 Interactions: typed, reduced

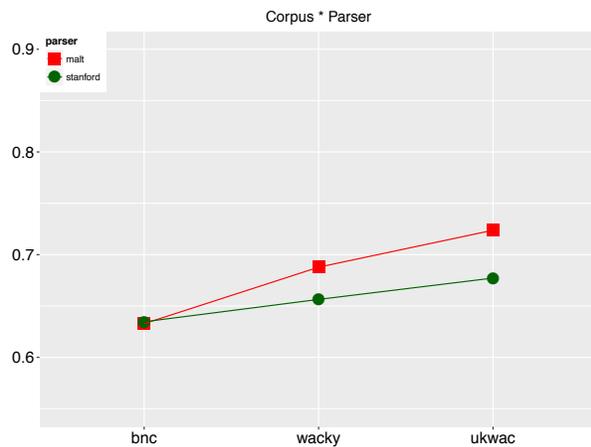


Figure 7.43: BATTIG,typed,reduced

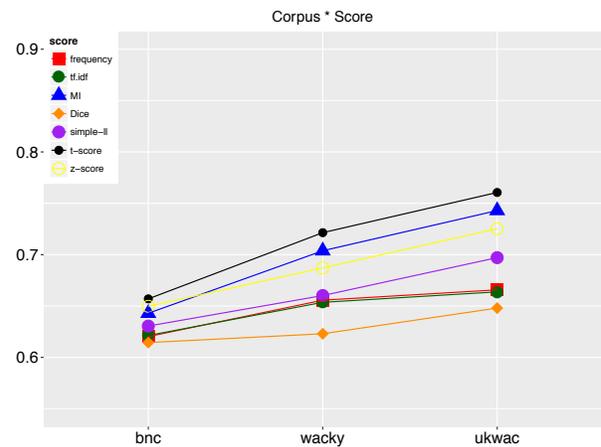


Figure 7.44: BATTIG,typed,reduced

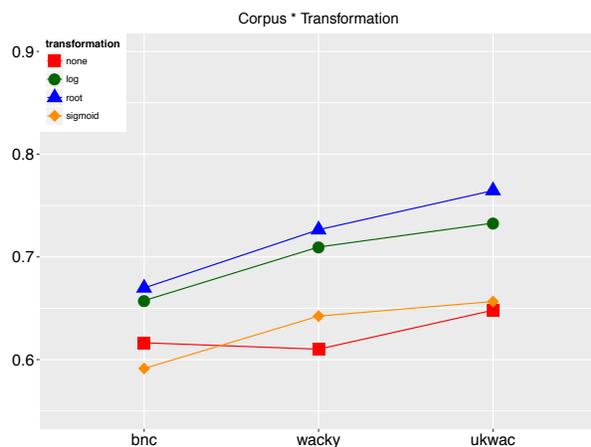


Figure 7.45: BATTIG,typed,reduced

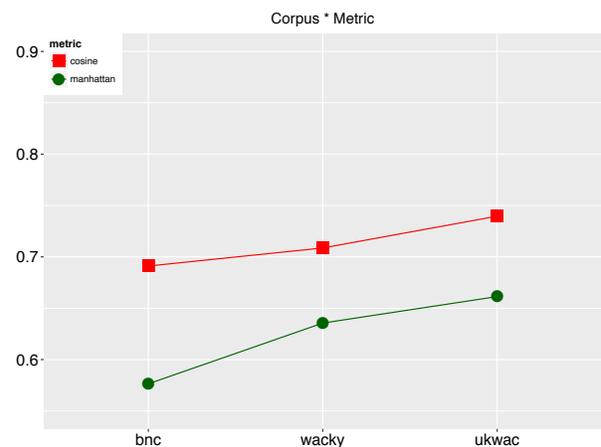


Figure 7.46: BATTIG,typed,reduced

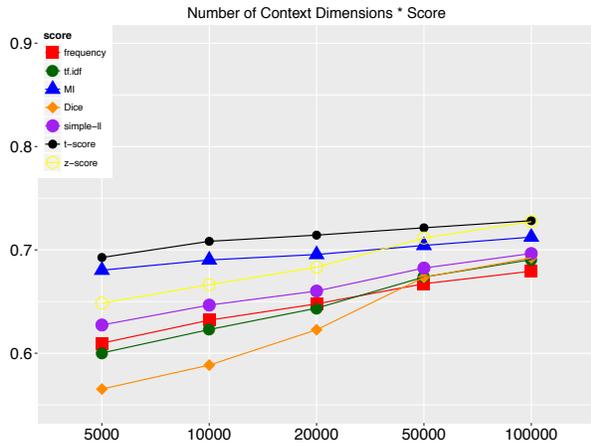


Figure 7.47: BATTIG,typed,reduced

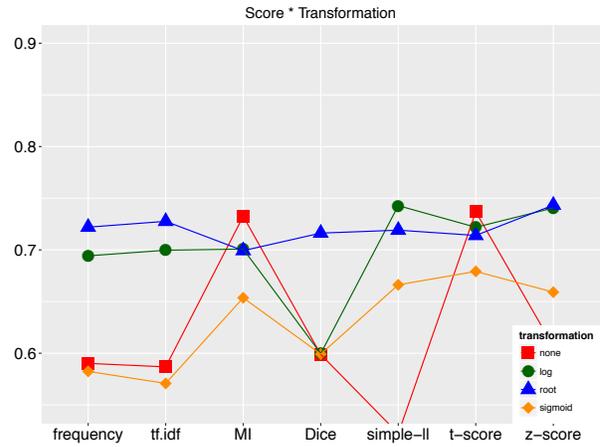


Figure 7.48: BATTIG,typed,reduced

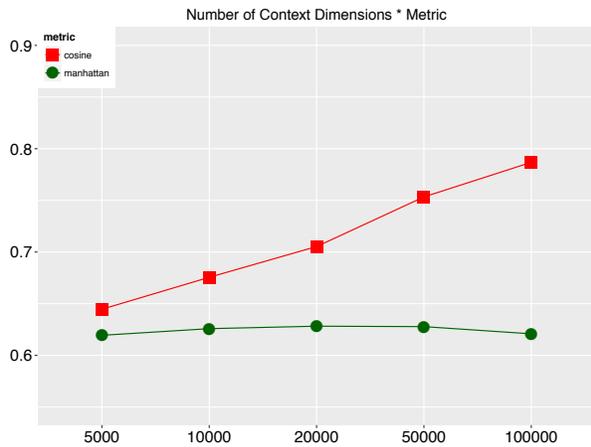


Figure 7.49: BATTIG,typed,reduced

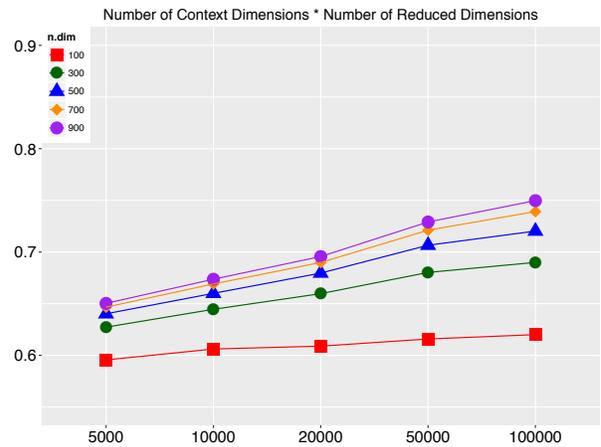


Figure 7.50: BATTIG,typed,reduced

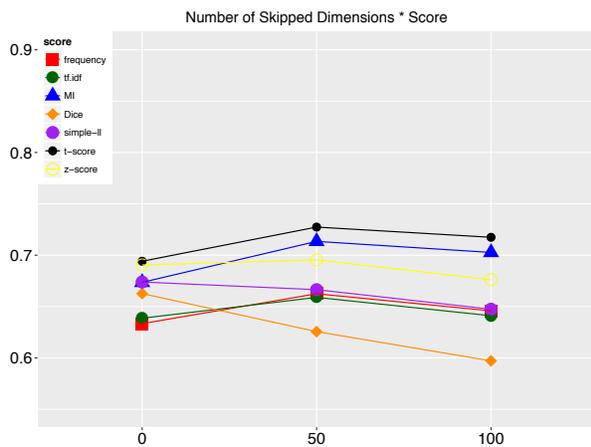


Figure 7.51: BATTIG,typed,reduced

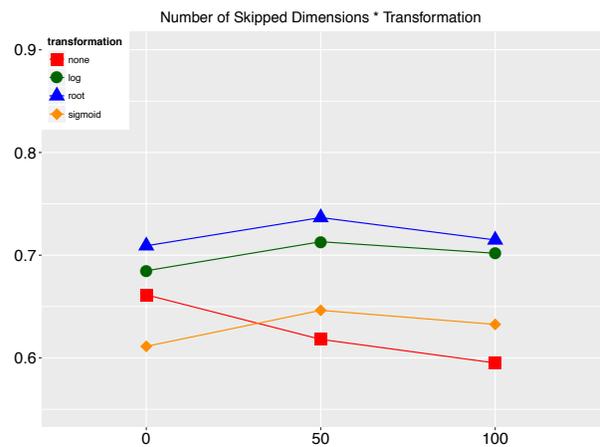


Figure 7.52: BATTIG,typed,reduced

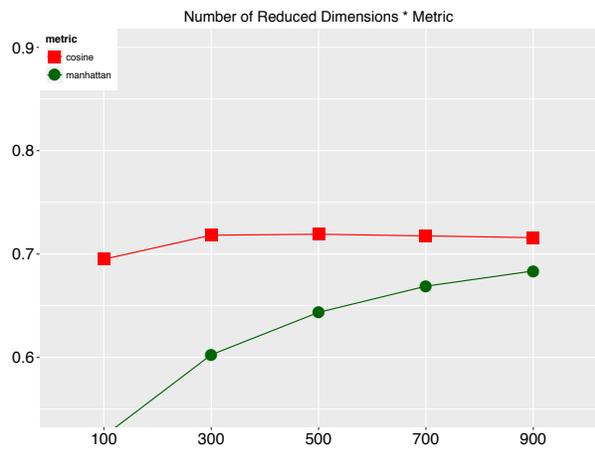


Figure 7.53: BATTIG,typed,reduced

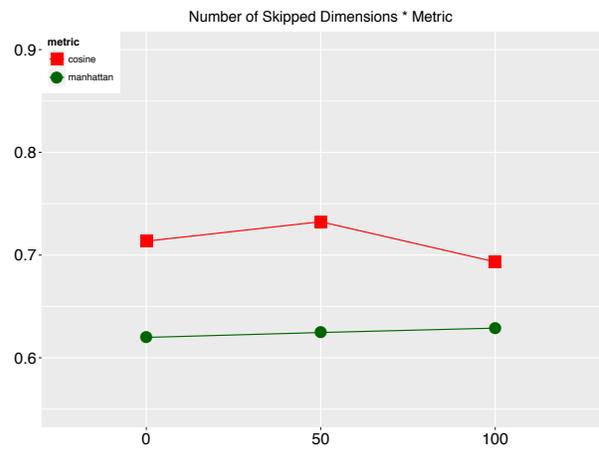


Figure 7.54: BATTIG,typed,reduced

## 7.6 MITCHELL

### 7.6.1 Main Effects

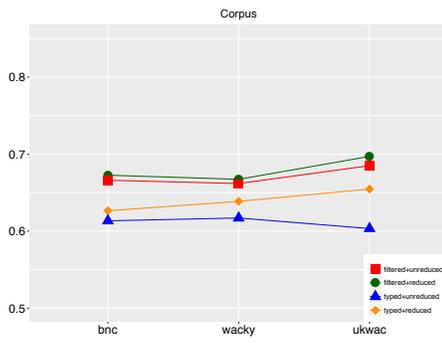


Figure 7.1

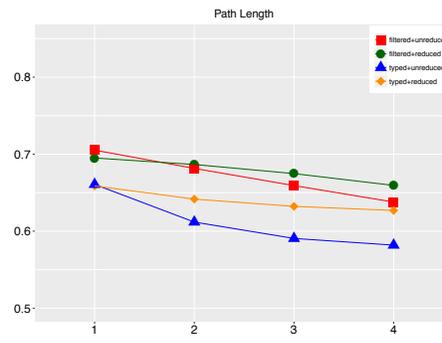


Figure 7.2

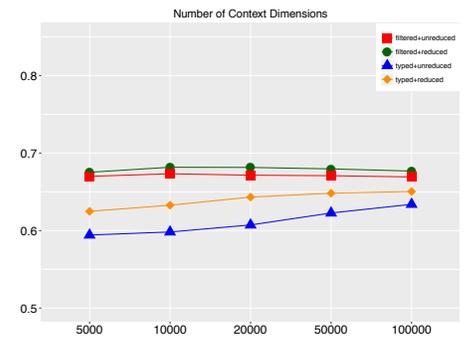


Figure 7.3

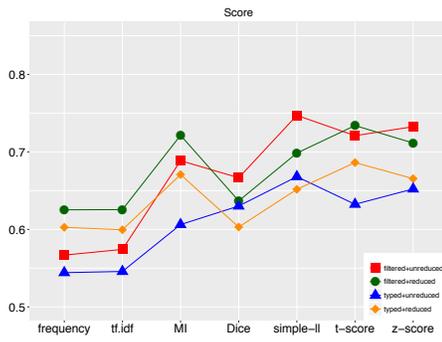


Figure 7.4

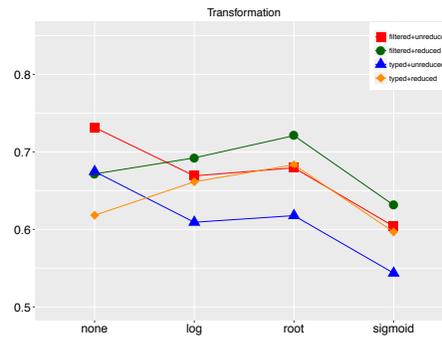


Figure 7.5

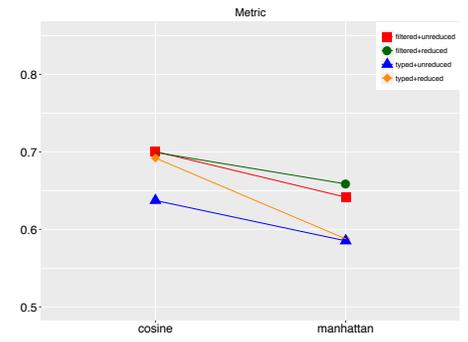


Figure 7.6

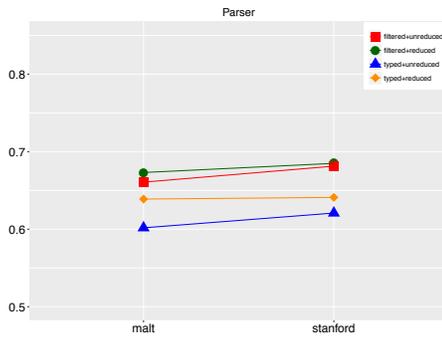


Figure 7.7

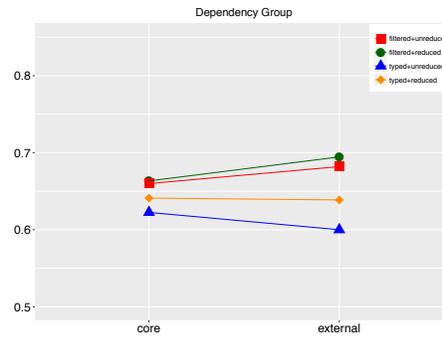


Figure 7.8

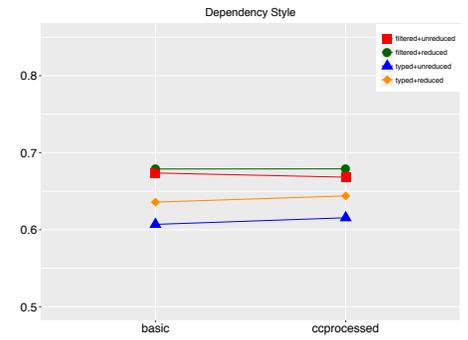


Figure 7.9

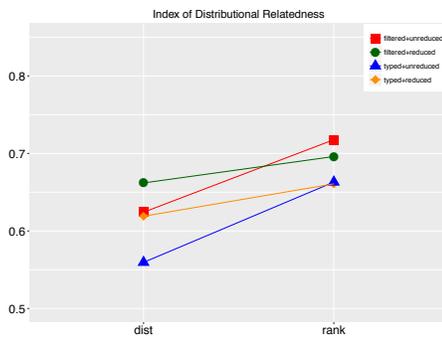


Figure 7.10

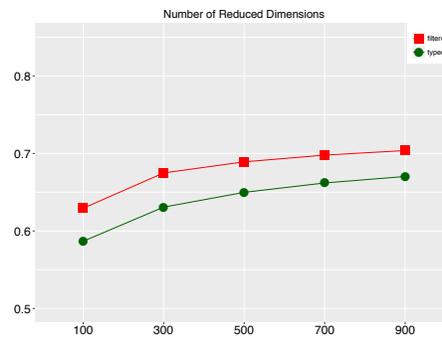


Figure 7.11

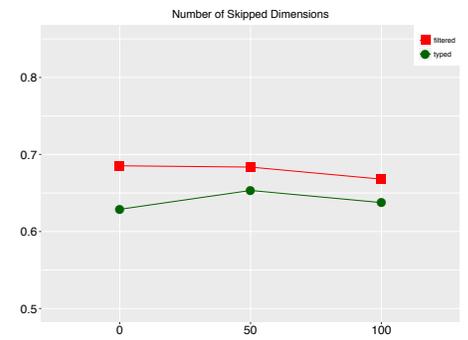


Figure 7.12

## 7.6.2 Interactions: filtered, unreduced

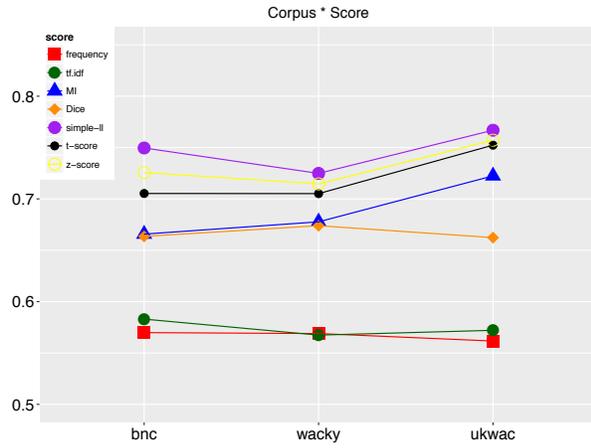


Figure 7.13: MITCHELL, filtered, unreduced

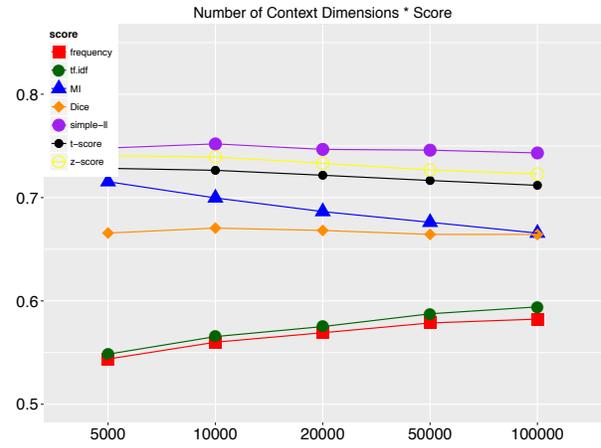


Figure 7.14: MITCHELL, filtered, unreduced

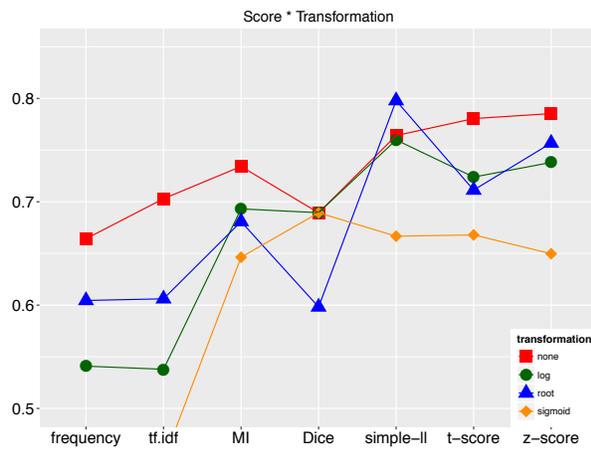


Figure 7.15: MITCHELL, filtered, unreduced

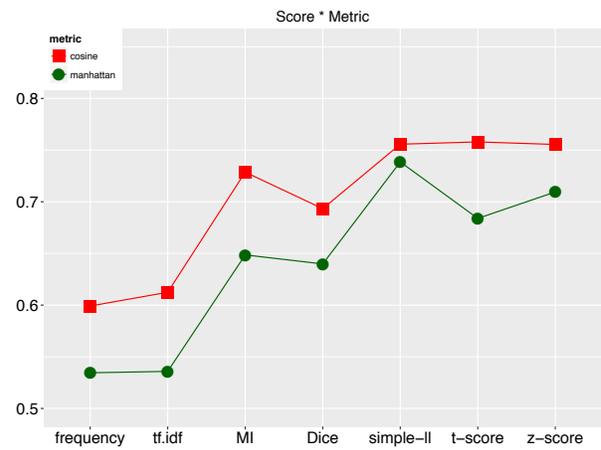


Figure 7.16: MITCHELL, filtered, unreduced

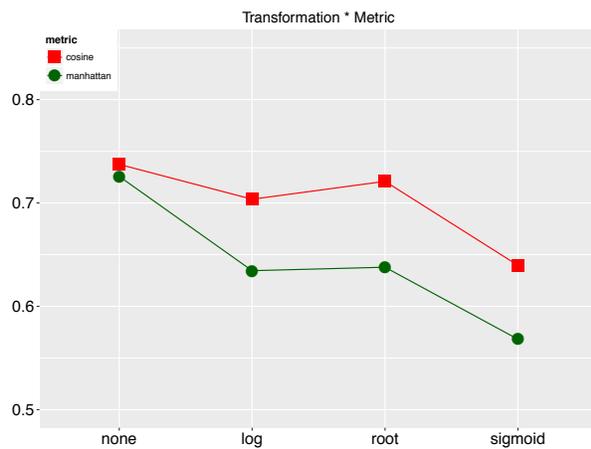


Figure 7.17: MITCHELL, filtered, unreduced

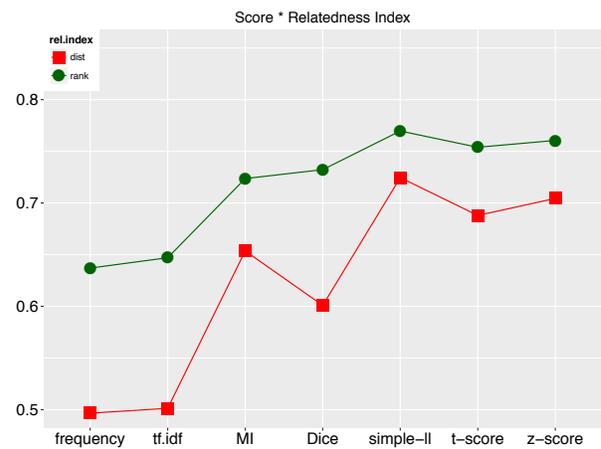


Figure 7.18: MITCHELL, filtered, unreduced

### 7.6.3 Interactions: filtered, reduced

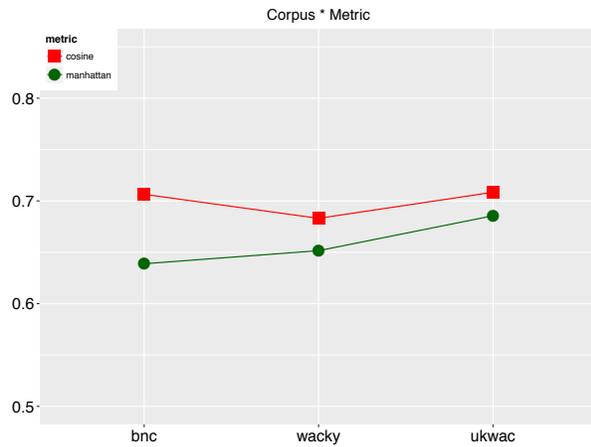


Figure 7.19: MITCHELL,filtered,reduced

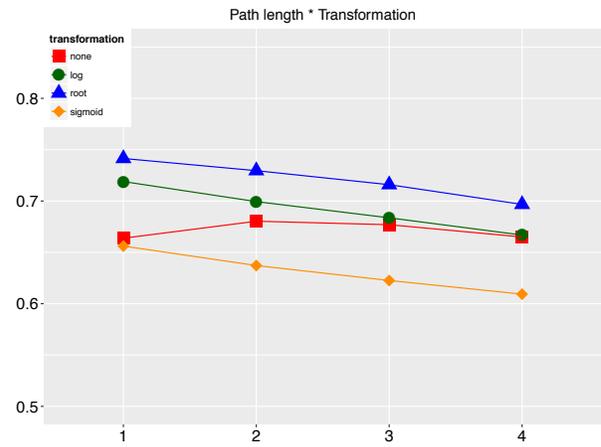


Figure 7.20: MITCHELL,filtered,reduced

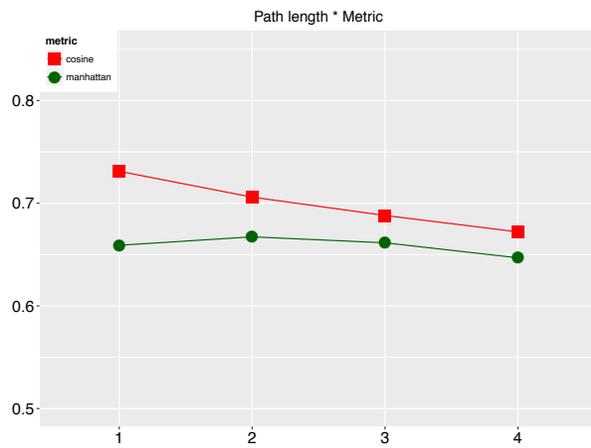


Figure 7.21: MITCHELL,filtered,reduced

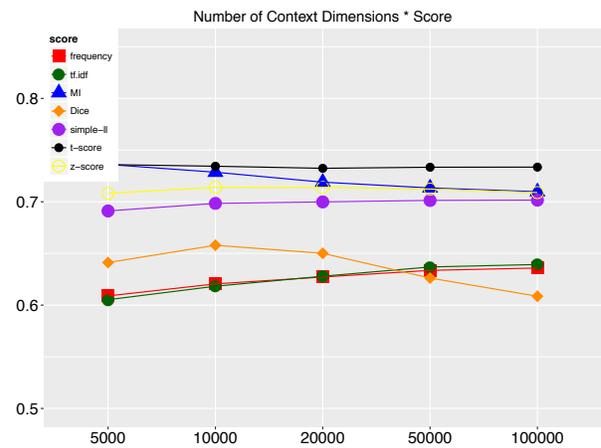


Figure 7.22: MITCHELL,filtered,reduced

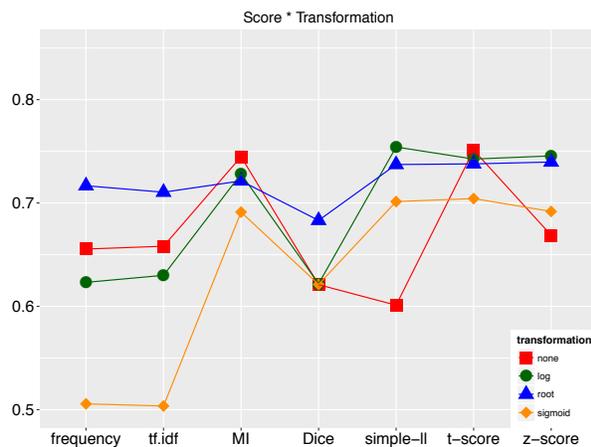


Figure 7.23: MITCHELL,filtered,reduced

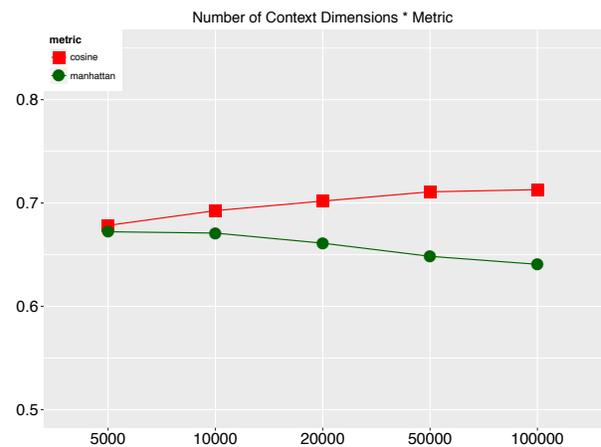


Figure 7.24: MITCHELL,filtered,reduced

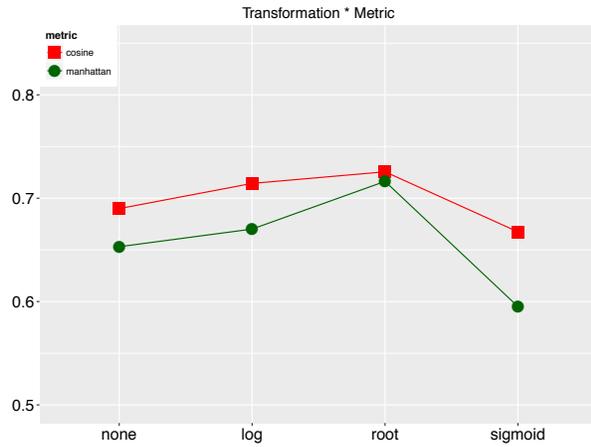


Figure 7.25: MITCHELL,filtered,reduced

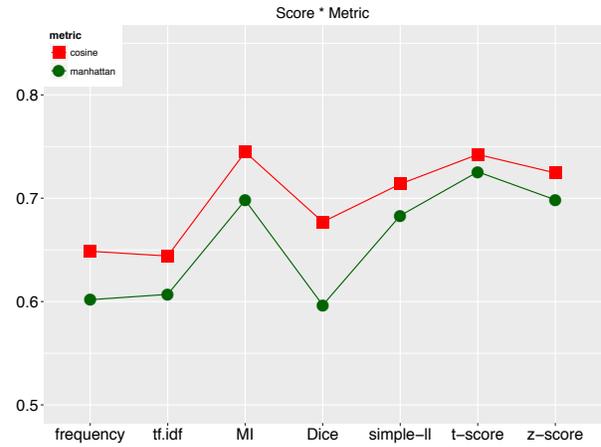


Figure 7.26: MITCHELL,filtered,reduced

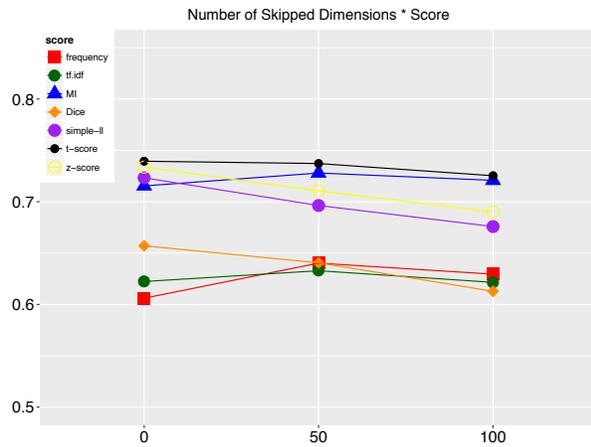


Figure 7.27: MITCHELL,filtered,reduced

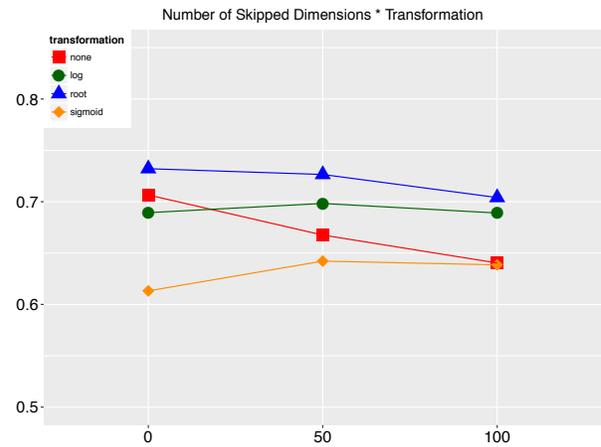


Figure 7.28: MITCHELL,filtered,reduced

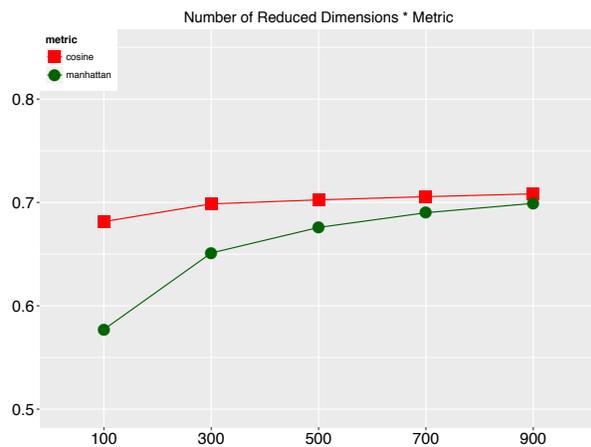


Figure 7.29: MITCHELL,filtered,reduced

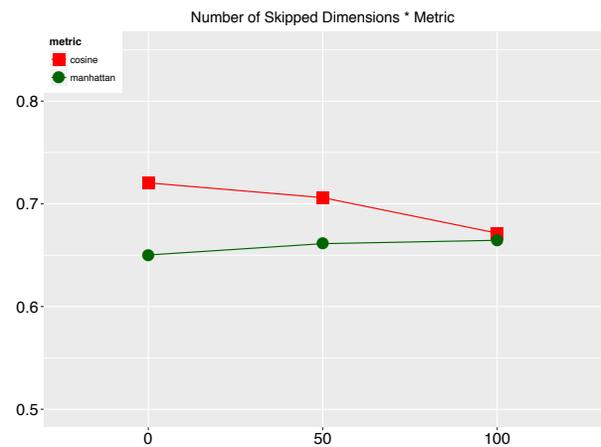


Figure 7.30: MITCHELL,filtered,reduced

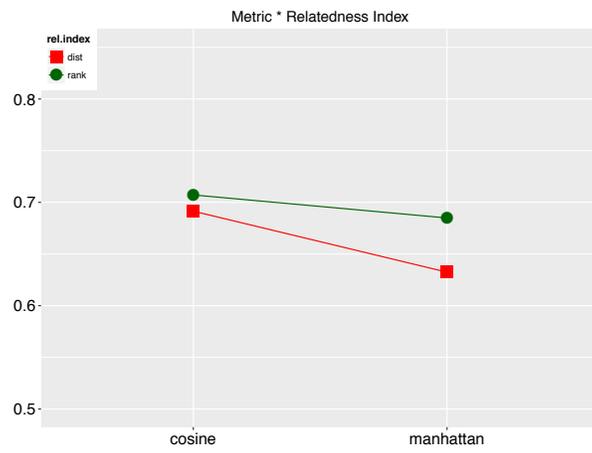


Figure 7.31: MITCHELL,filtered,reduced

## 7.6.4 Interactions: typed, unreduced

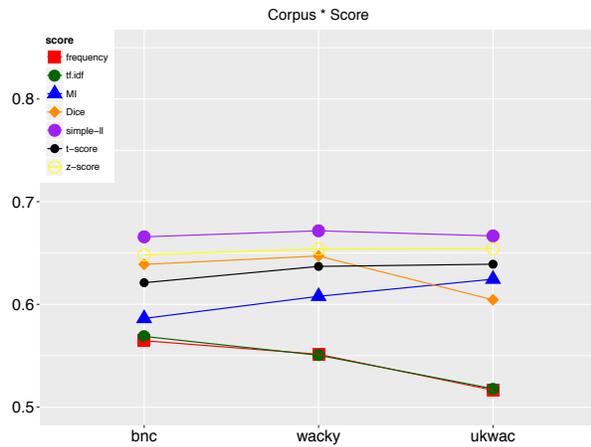


Figure 7.32: MITCHELL,typed,unreduced

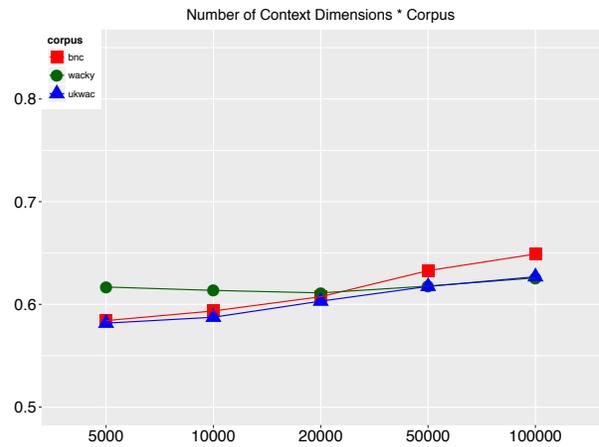


Figure 7.33: MITCHELL,typed,unreduced

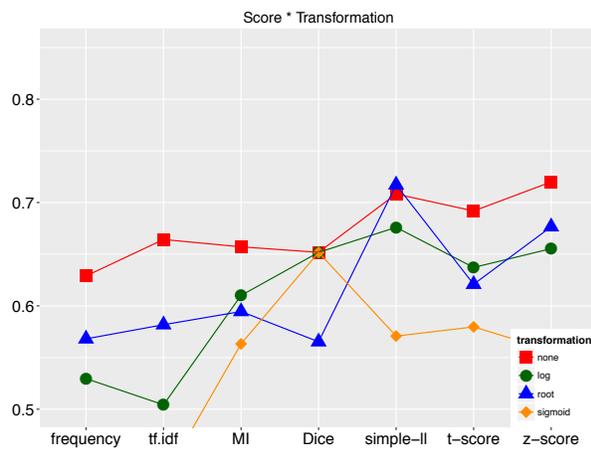


Figure 7.34: MITCHELL,typed,unreduced

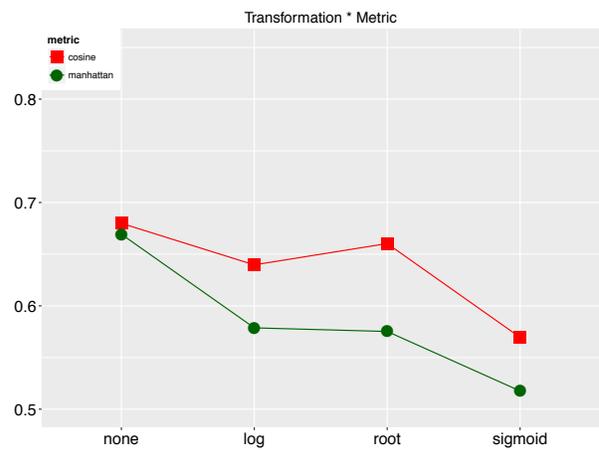


Figure 7.35: MITCHELL,typed,unreduced

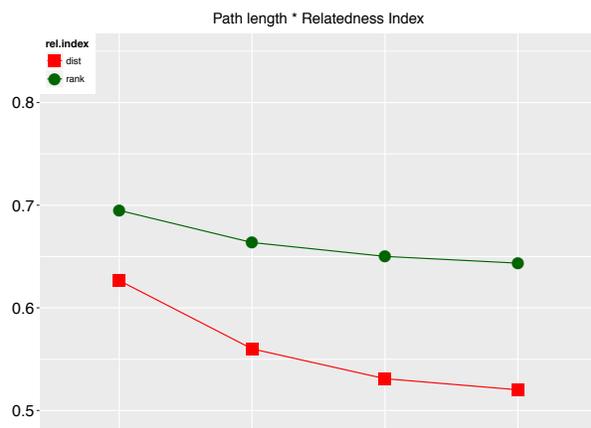


Figure 7.36: MITCHELL,typed,unreduced

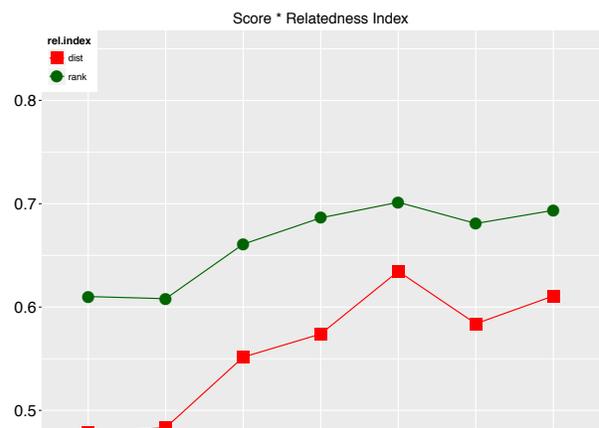


Figure 7.37: MITCHELL,typed,unreduced

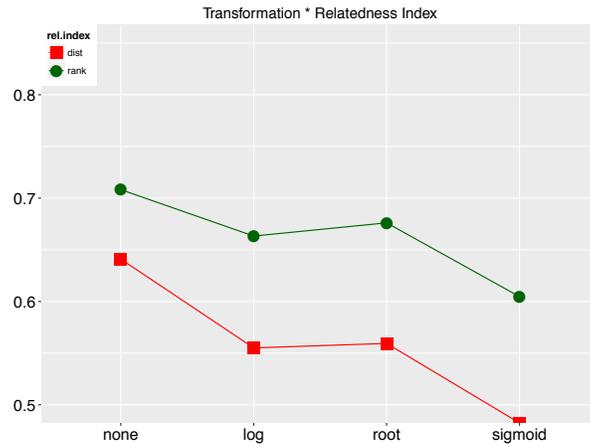


Figure 7.38: MITCHELL,typed,unreduced

### 7.6.5 Interactions: typed, reduced

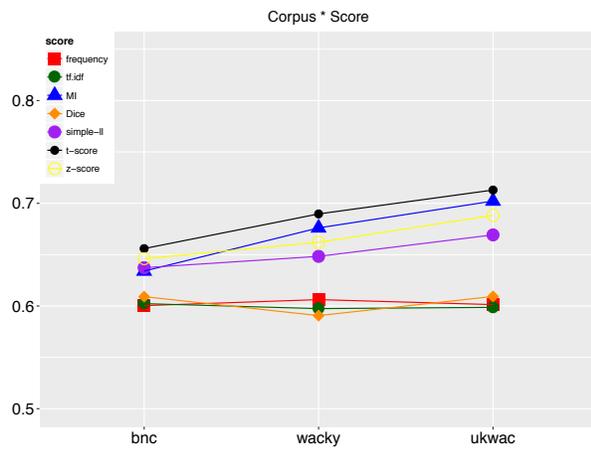


Figure 7.39: MITCHELL,typed,reduced

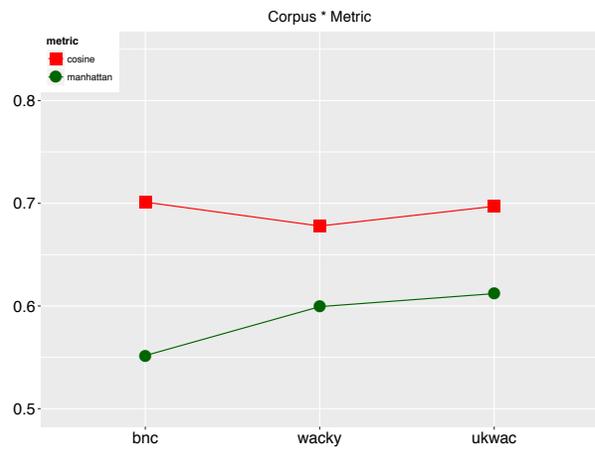


Figure 7.40: MITCHELL,typed,reduced

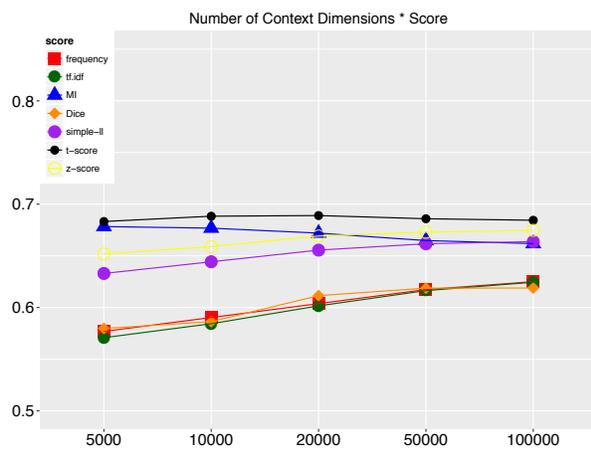


Figure 7.41: MITCHELL,typed,reduced

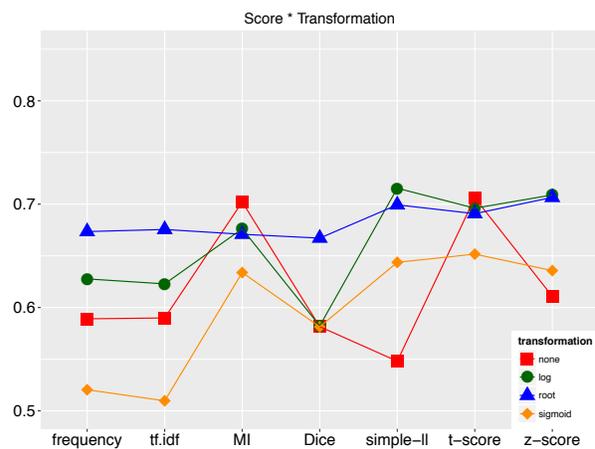


Figure 7.42: MITCHELL,typed,reduced

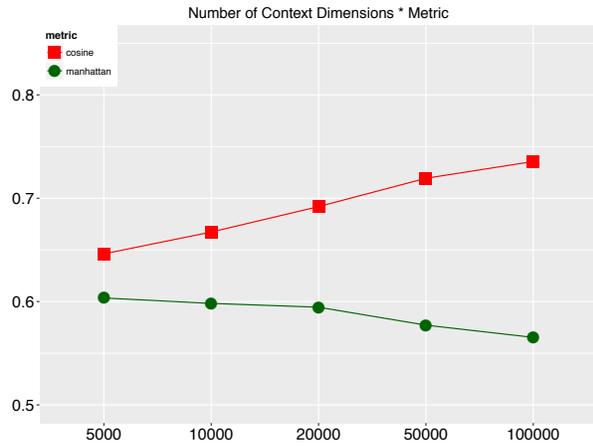


Figure 7.43: MITCHELL,typed,reduced

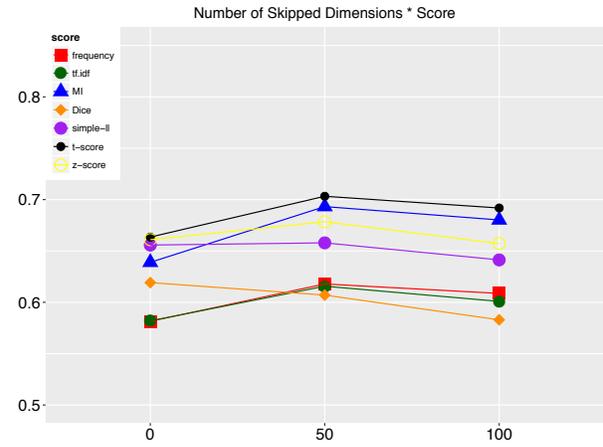


Figure 7.44: MITCHELL,typed,reduced

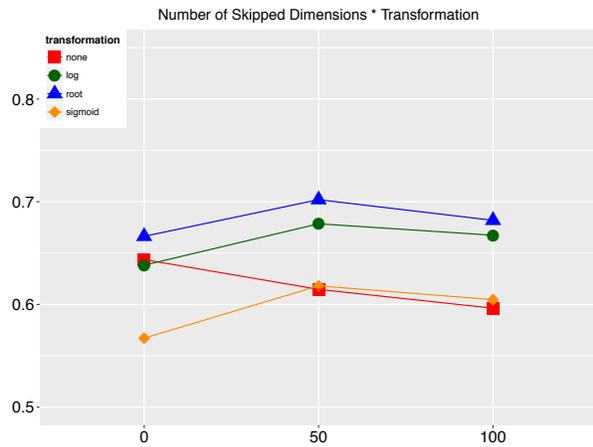


Figure 7.45: MITCHELL,typed,reduced

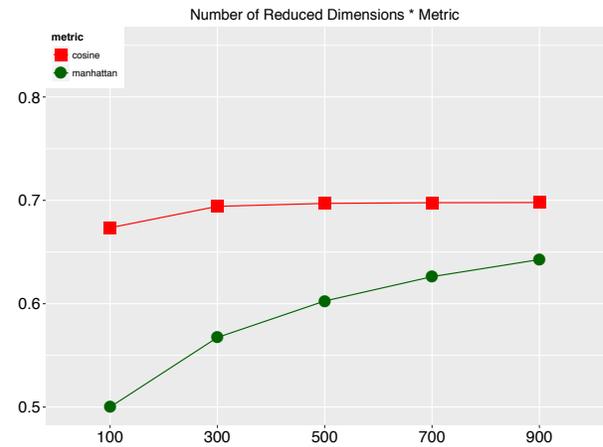


Figure 7.46: MITCHELL,typed,reduced

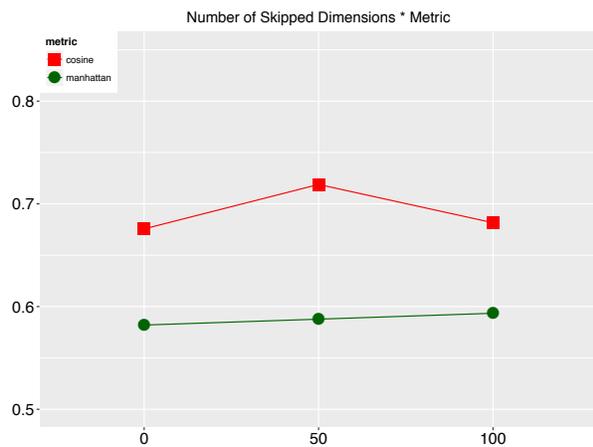


Figure 7.47: MITCHELL,typed,reduced

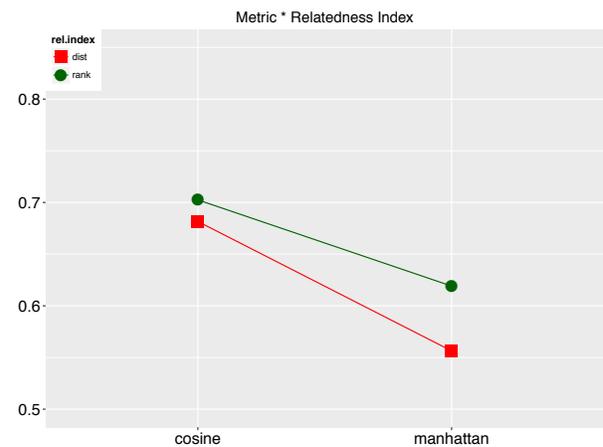


Figure 7.48: MITCHELL,typed,reduced

## 7.7 ESSLLI

### 7.7.1 Main Effects

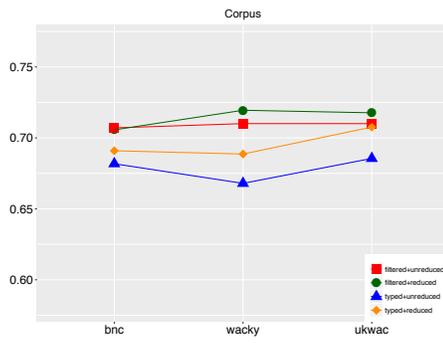


Figure 7.1

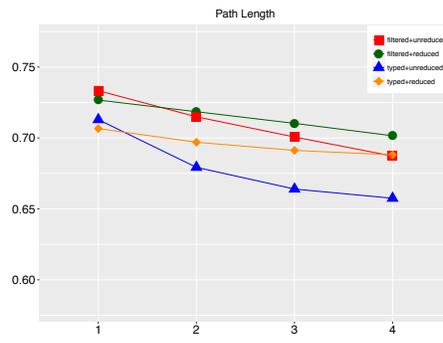


Figure 7.2

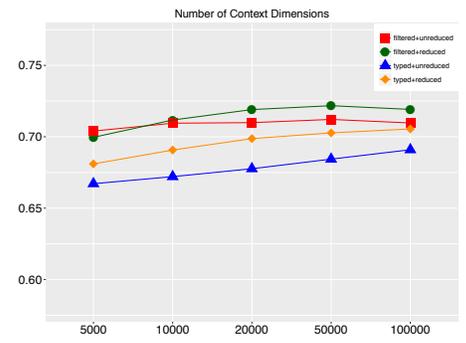


Figure 7.3

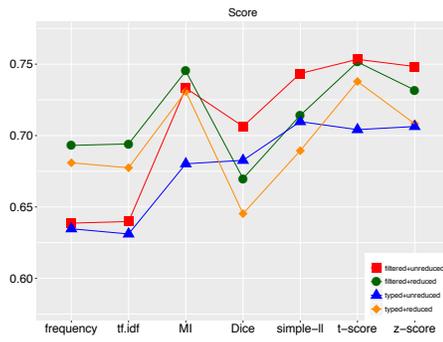


Figure 7.4

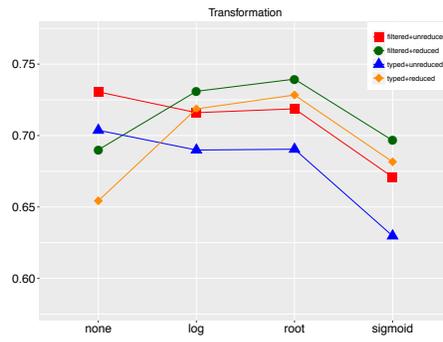


Figure 7.5

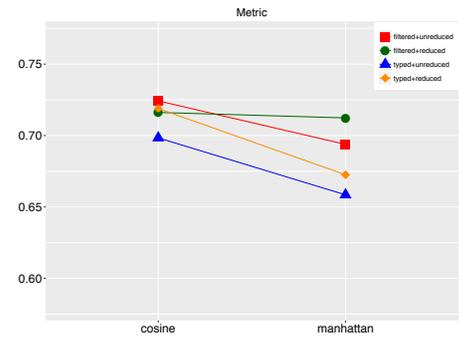


Figure 7.6

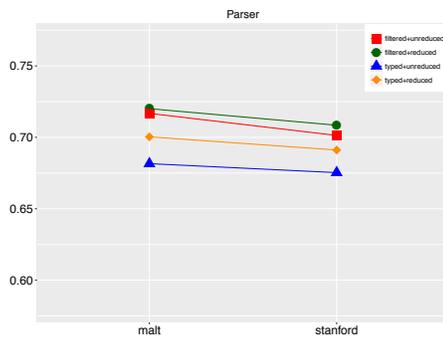


Figure 7.7

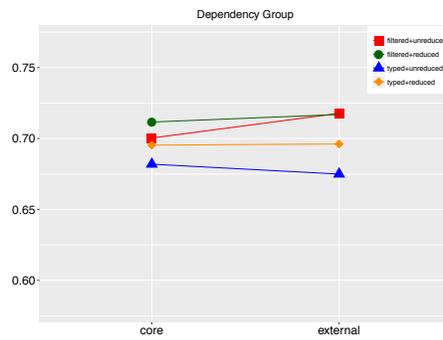


Figure 7.8

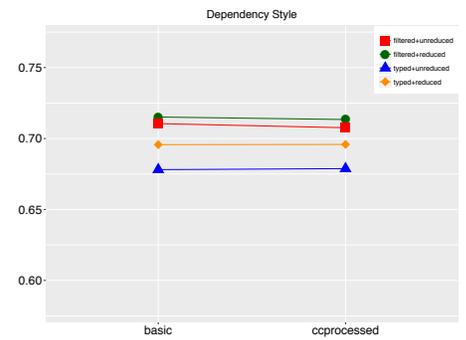


Figure 7.9

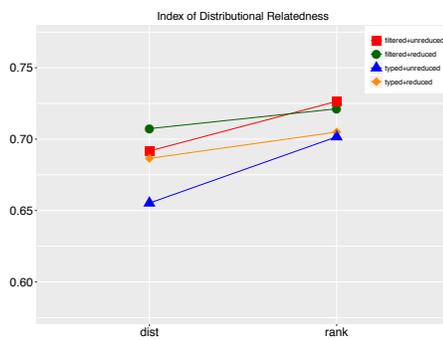


Figure 7.10

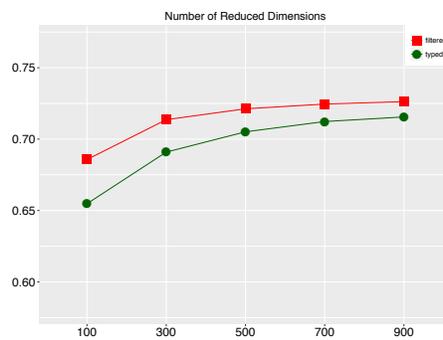


Figure 7.11

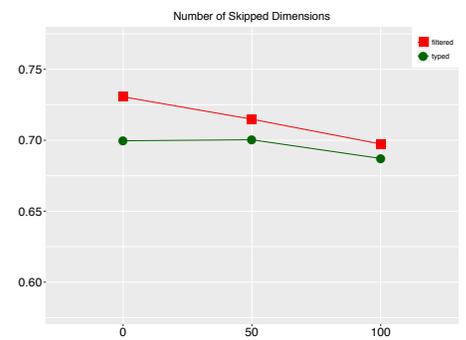


Figure 7.12

## 7.7.2 Interactions: filtered, unreduced

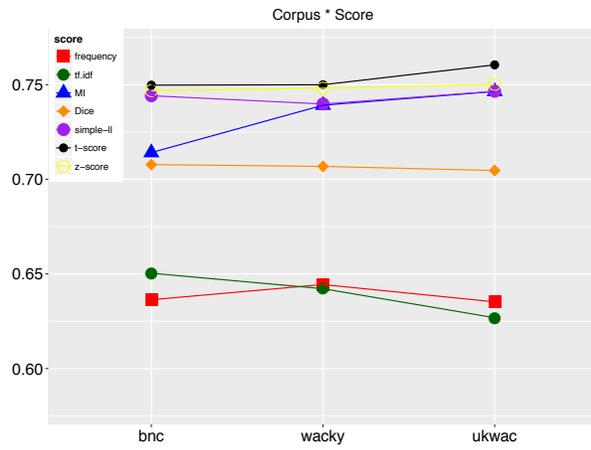


Figure 7.13: ESSLLI, filtered, unreduced

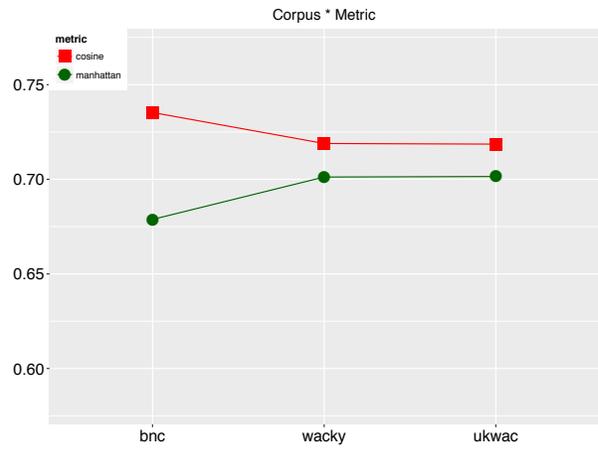


Figure 7.14: ESSLLI, filtered, unreduced

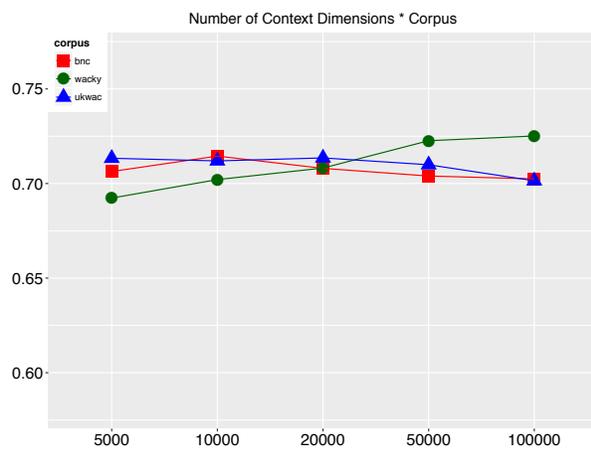


Figure 7.15: ESSLLI, filtered, unreduced

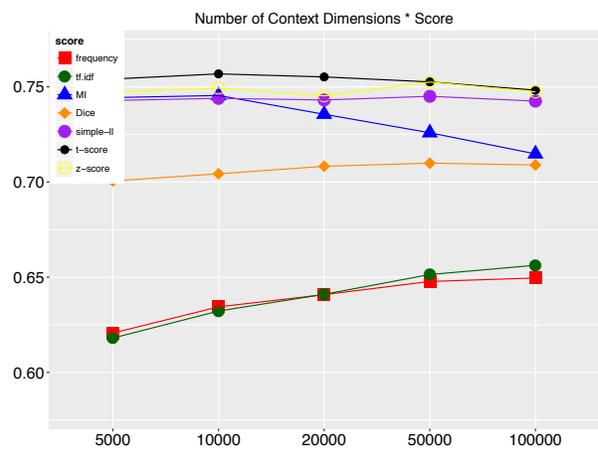


Figure 7.16: ESSLLI, filtered, unreduced

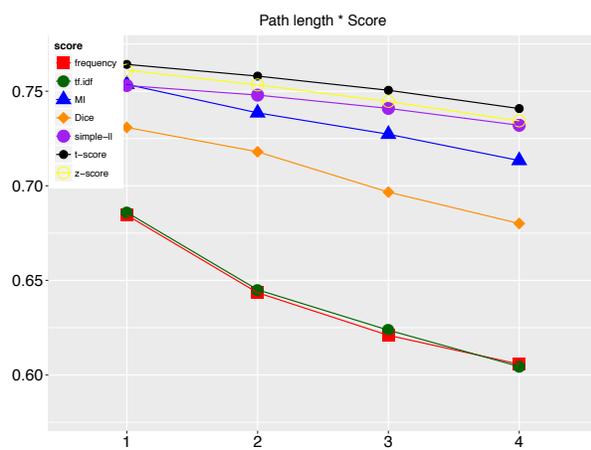


Figure 7.17: ESSLLI, filtered, unreduced

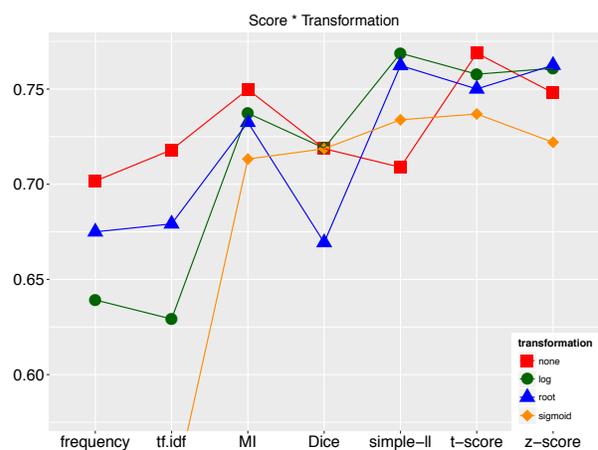


Figure 7.18: ESSLLI, filtered, unreduced

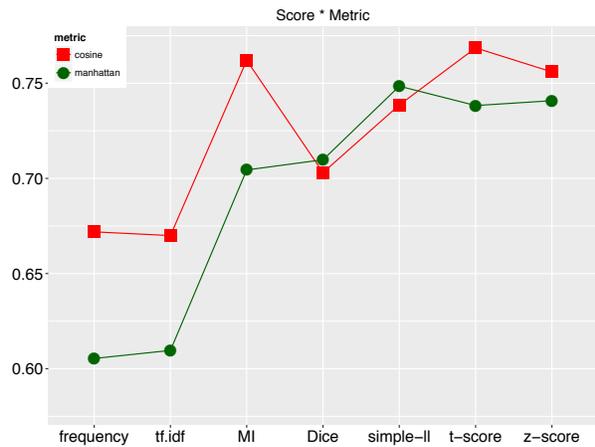


Figure 7.19: ESSLLI, filtered, unreduced

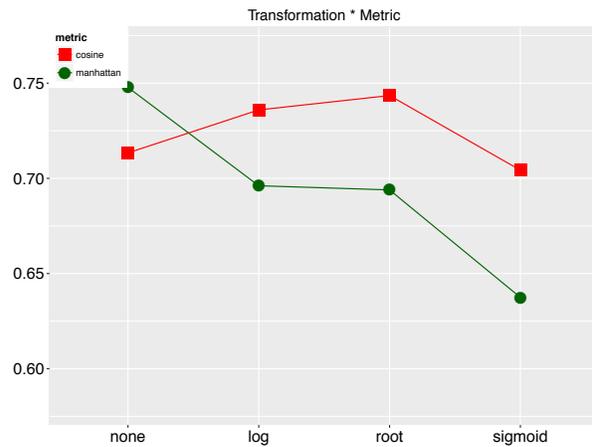


Figure 7.20: ESSLLI, filtered, unreduced

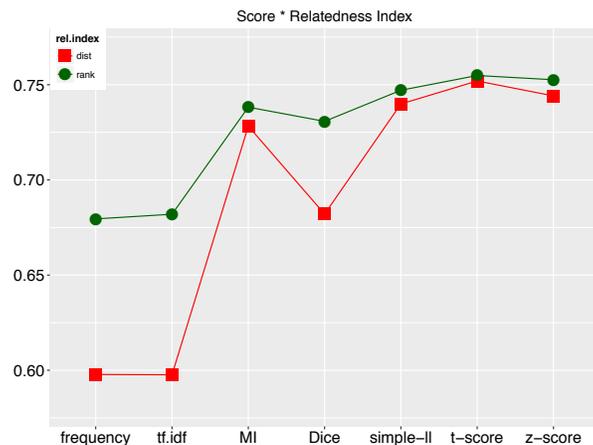


Figure 7.21: ESSLLI, filtered, unreduced

### 7.7.3 Interactions: filtered, reduced

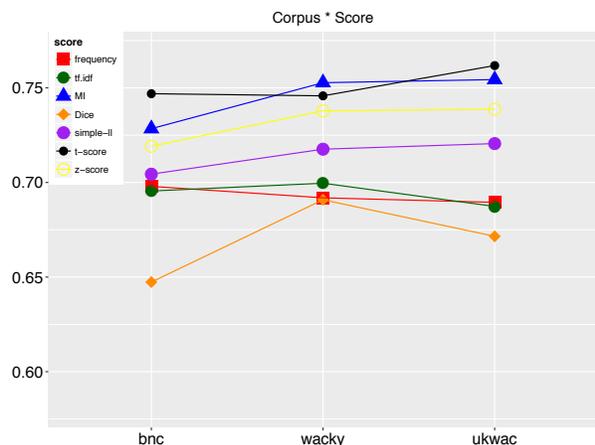


Figure 7.22: ESSLLI, filtered, reduced

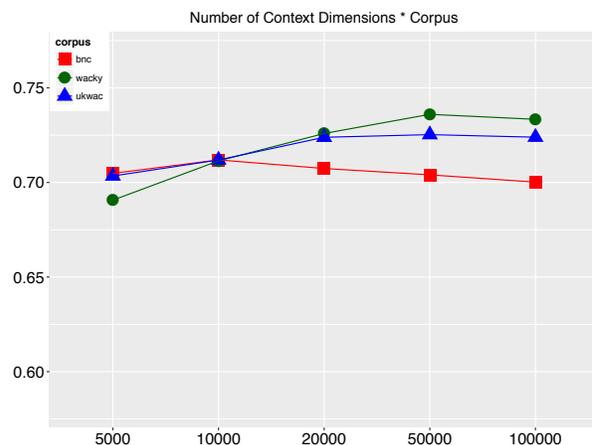


Figure 7.23: ESSLLI, filtered, reduced

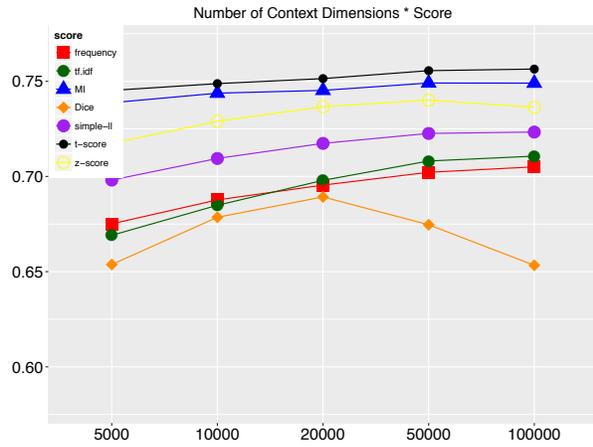


Figure 7.24: ESLLI,filtered,reduced

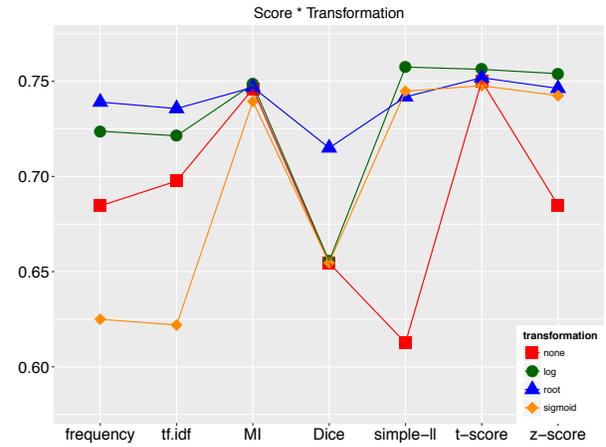


Figure 7.25: ESLLI,filtered,reduced

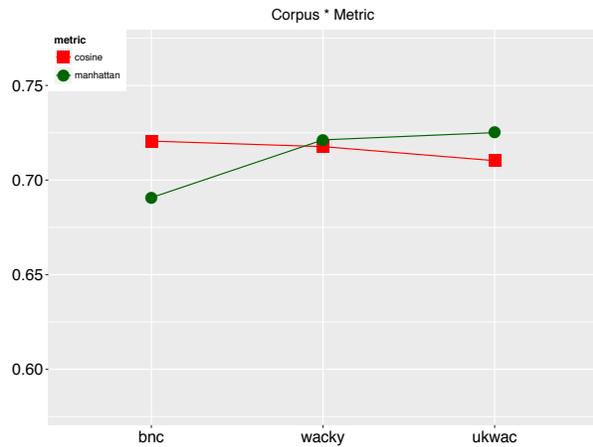


Figure 7.26: ESLLI,filtered,reduced

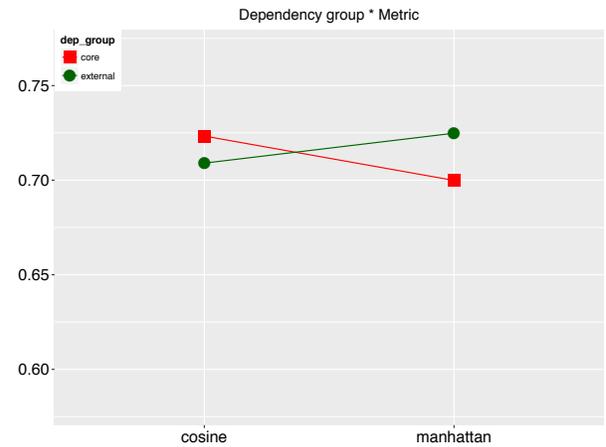


Figure 7.27: ESLLI,filtered,reduced

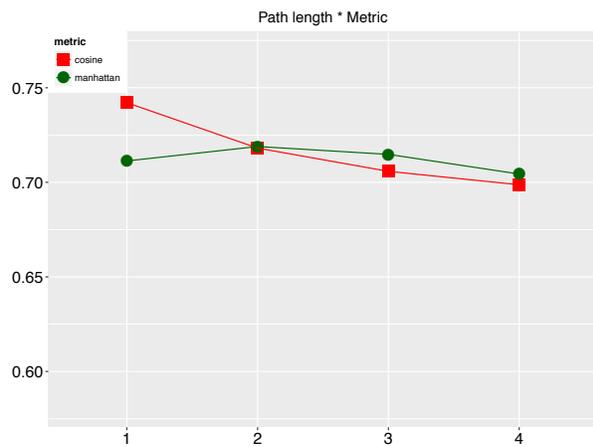


Figure 7.28: ESLLI,filtered,reduced

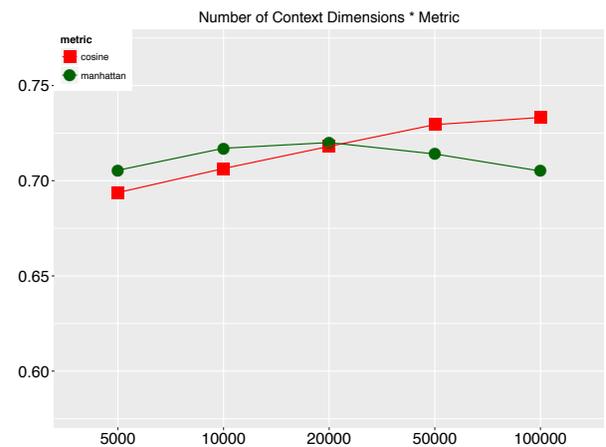


Figure 7.29: ESLLI,filtered,reduced

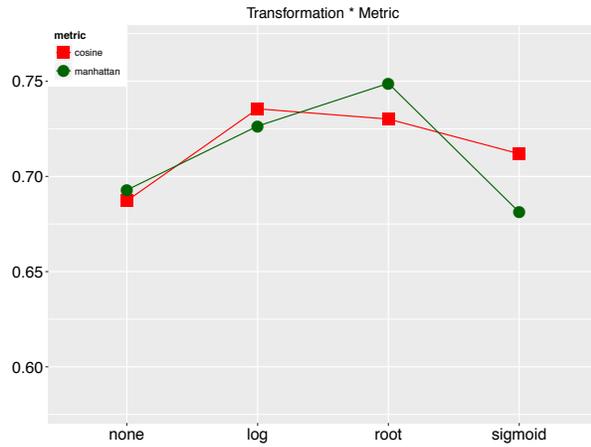


Figure 7.30: ESLLI,filtered,reduced

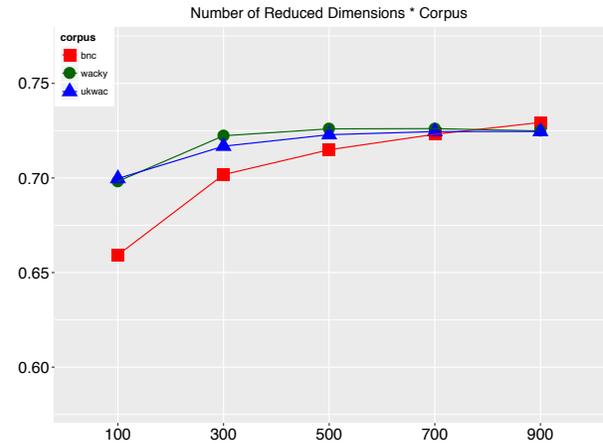


Figure 7.31: ESLLI,filtered,reduced

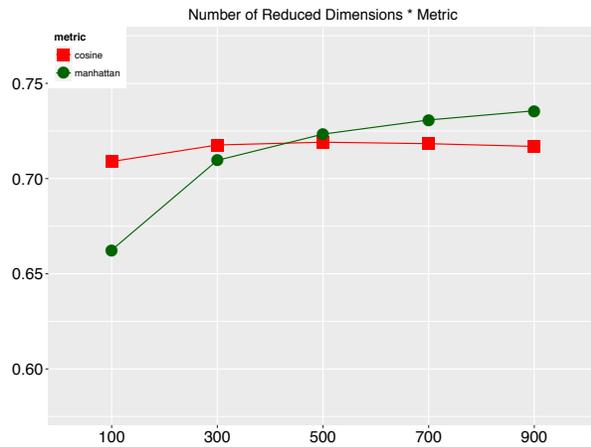


Figure 7.32: ESLLI,filtered,reduced

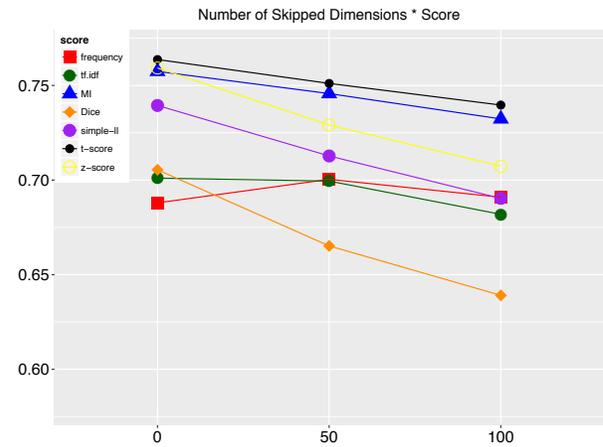


Figure 7.33: ESLLI,filtered,reduced

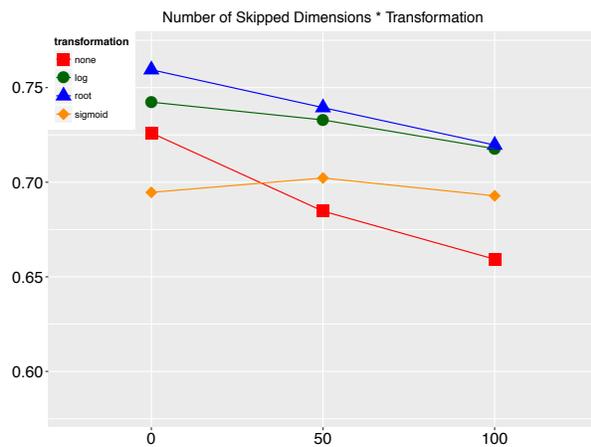


Figure 7.34: ESLLI,filtered,reduced

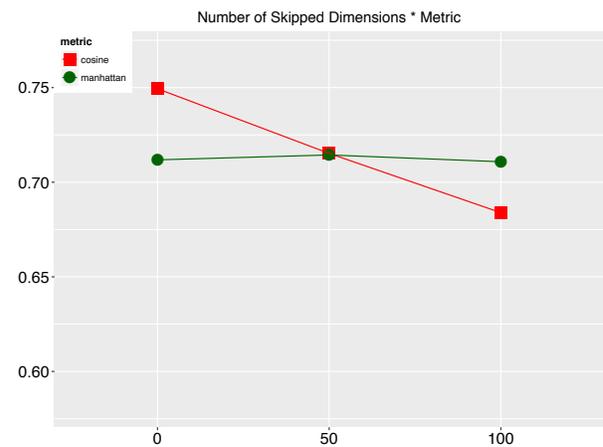


Figure 7.35: ESLLI,filtered,reduced

## 7.7.4 Interactions: typed, unreduced

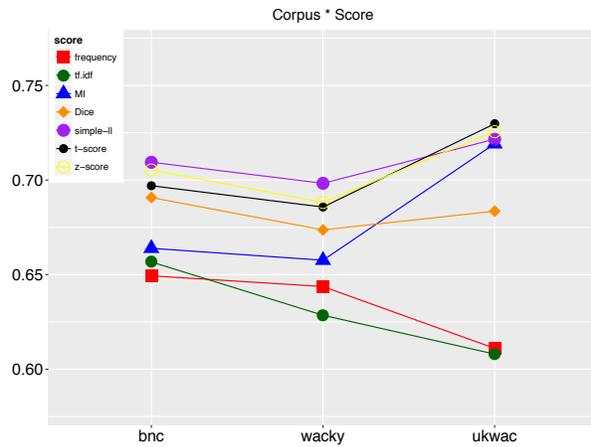


Figure 7.36: ESSLLI,typed,unreduced

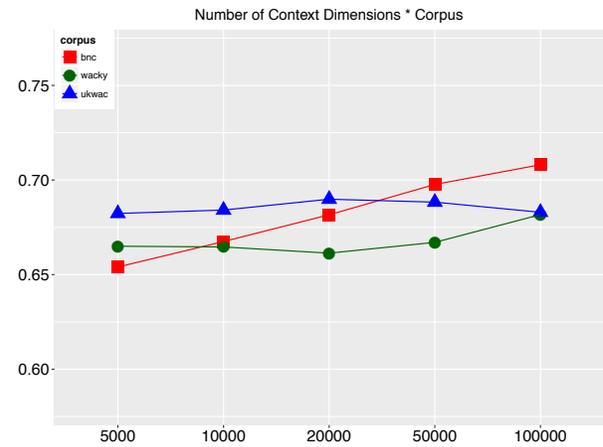


Figure 7.37: ESSLLI,typed,unreduced

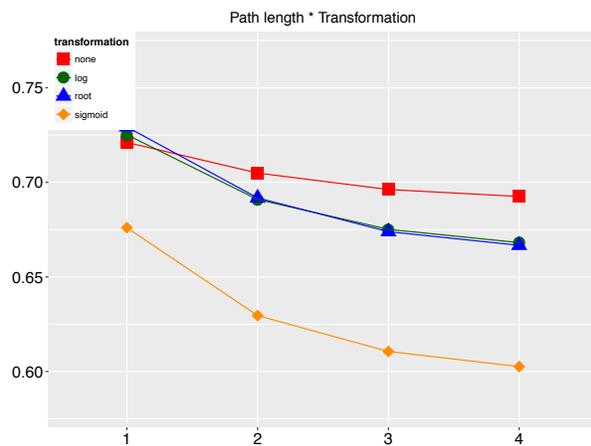


Figure 7.38: ESSLLI,typed,unreduced

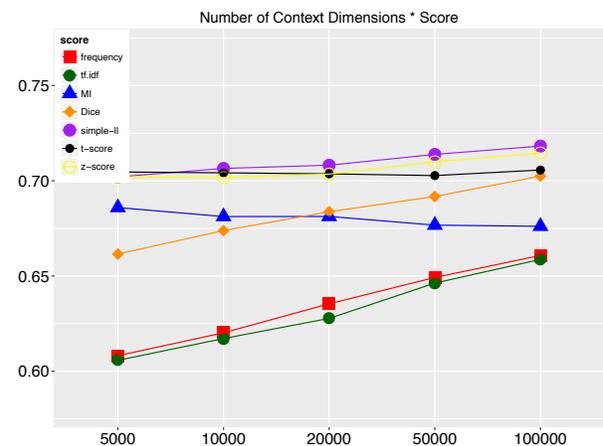


Figure 7.39: ESSLLI,typed,unreduced

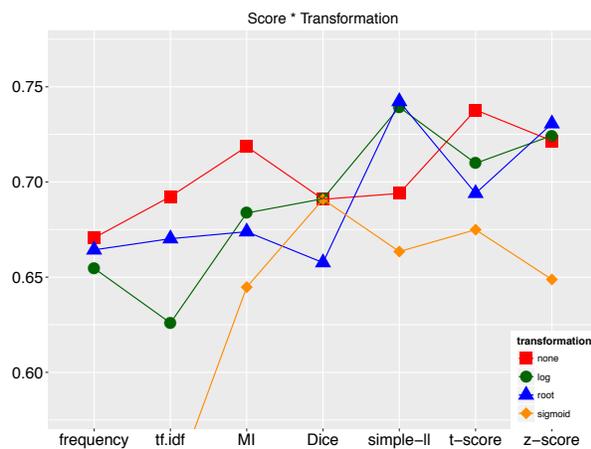


Figure 7.40: ESSLLI,typed,unreduced

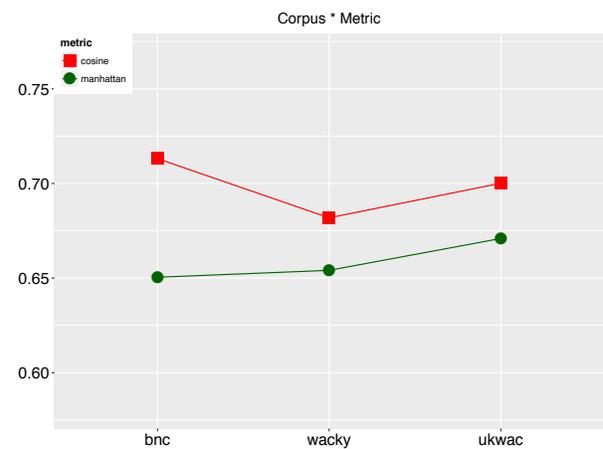


Figure 7.41: ESSLLI,typed,unreduced

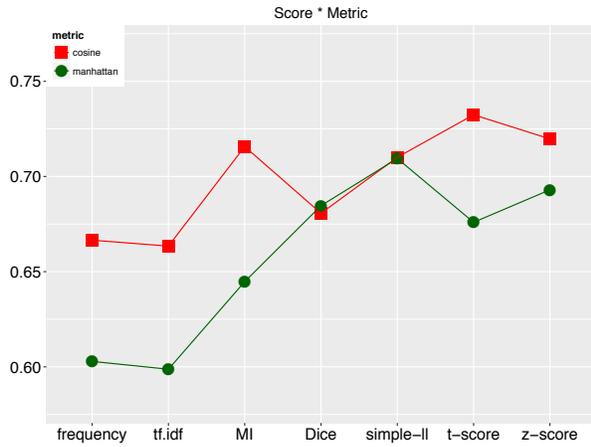


Figure 7.42: ESSLLI,typed,unreduced

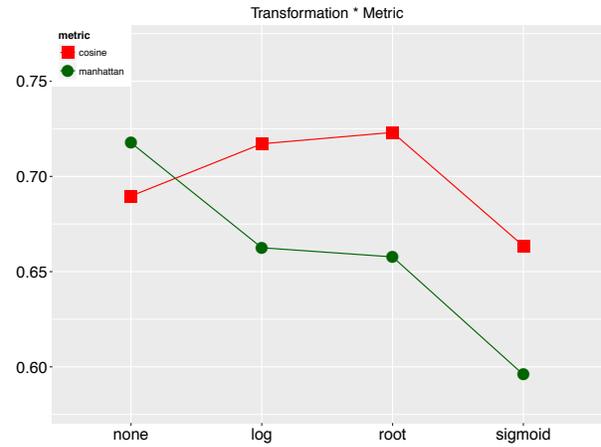


Figure 7.43: ESSLLI,typed,unreduced

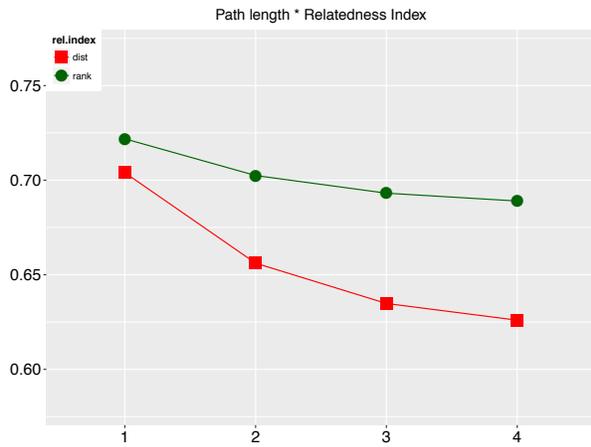


Figure 7.44: ESSLLI,typed,unreduced

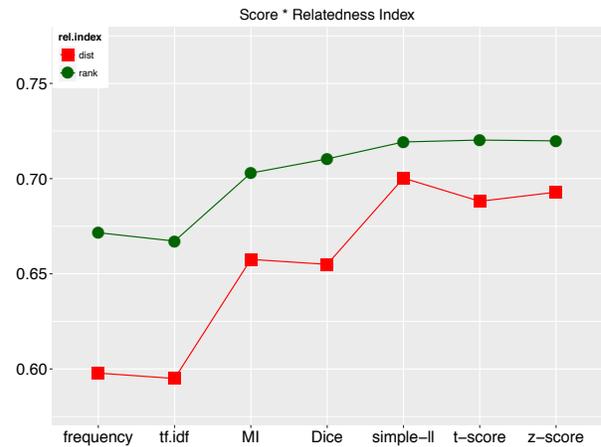


Figure 7.45: ESSLLI,typed,unreduced

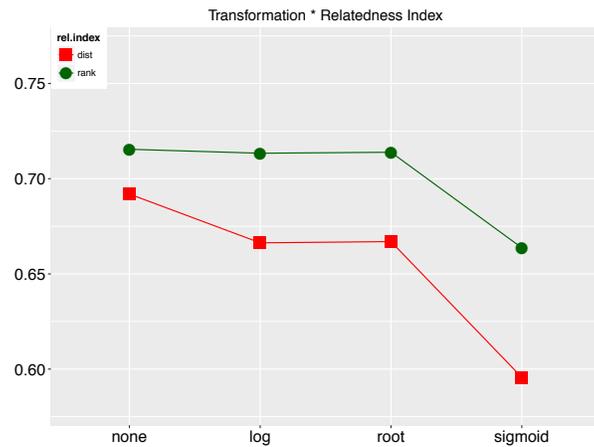


Figure 7.46: ESSLLI,typed,unreduced

### 7.7.5 Interactions: typed, reduced

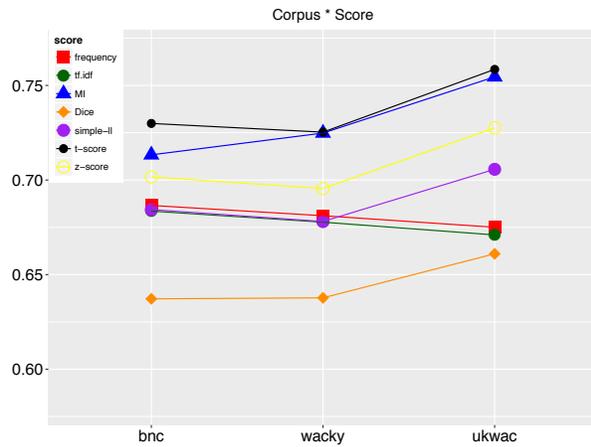


Figure 7.47: ESSLLI,typed,reduced

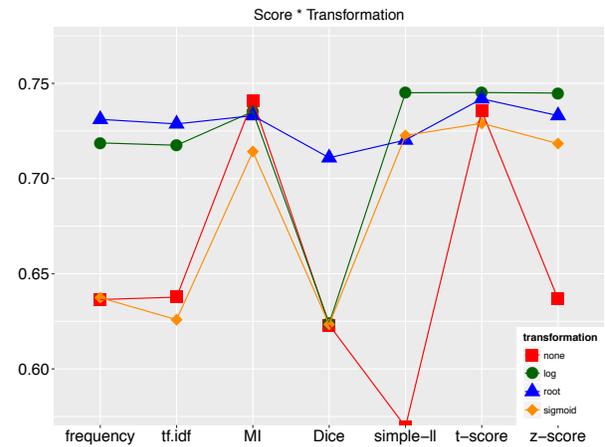


Figure 7.48: ESSLLI,typed,reduced

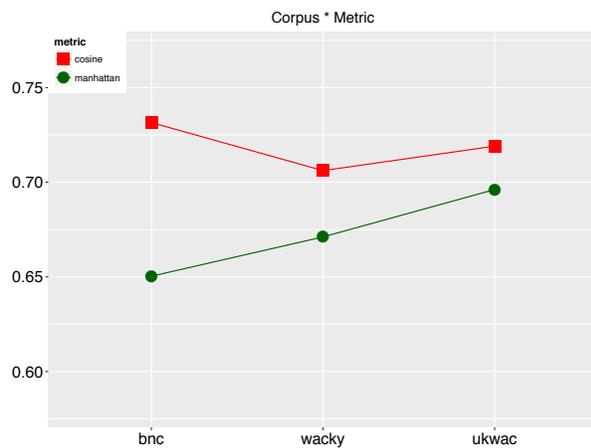


Figure 7.49: ESSLLI,typed,reduced

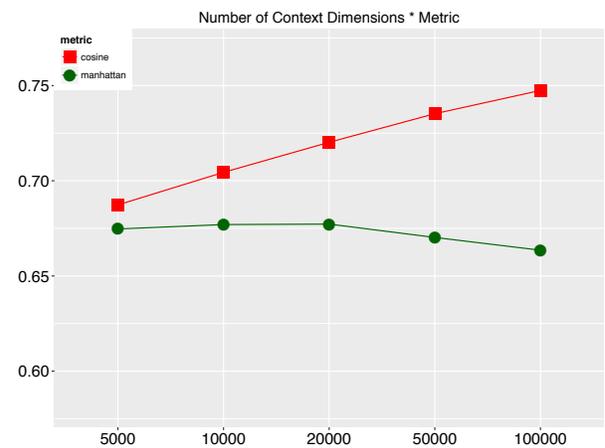


Figure 7.50: ESSLLI,typed,reduced

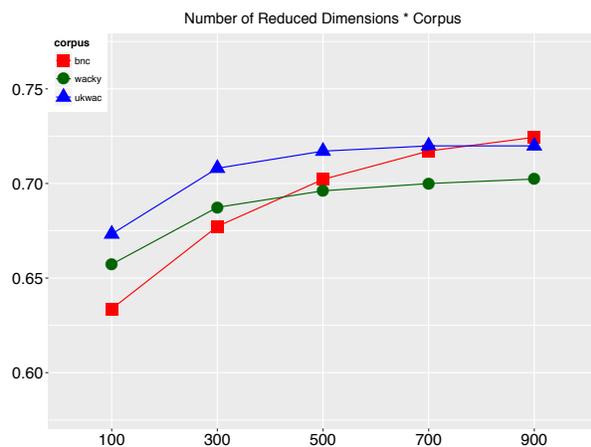


Figure 7.51: ESSLLI,typed,reduced

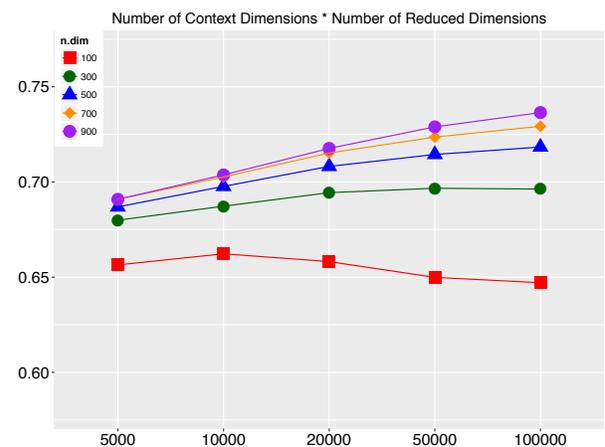


Figure 7.52: ESSLLI,typed,reduced

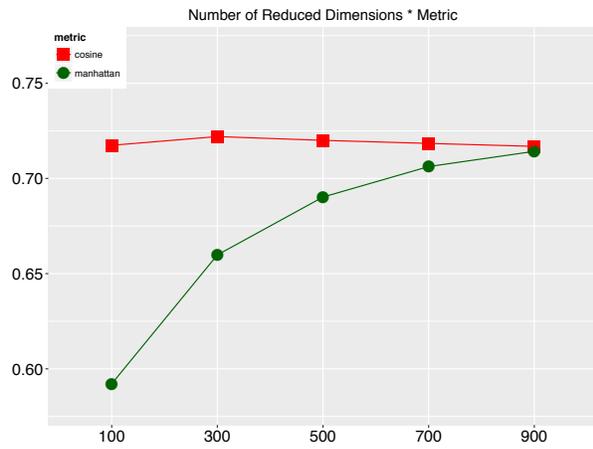


Figure 7.53: ESSLLI,typed,reduced

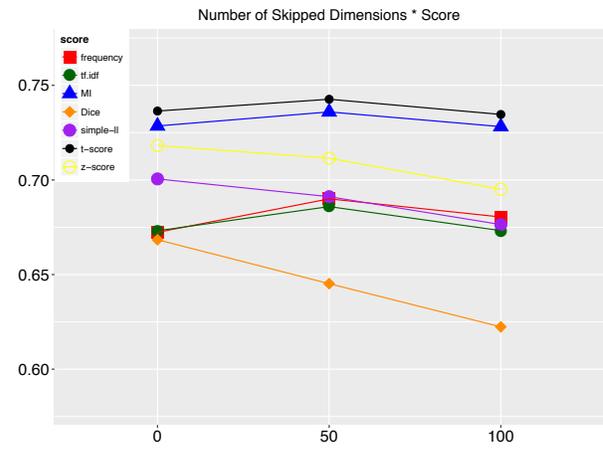


Figure 7.54: ESSLLI,typed,reduced

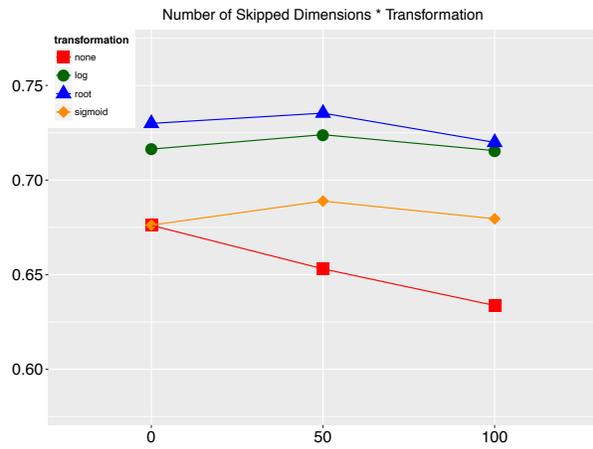


Figure 7.55: ESSLLI,typed,reduced

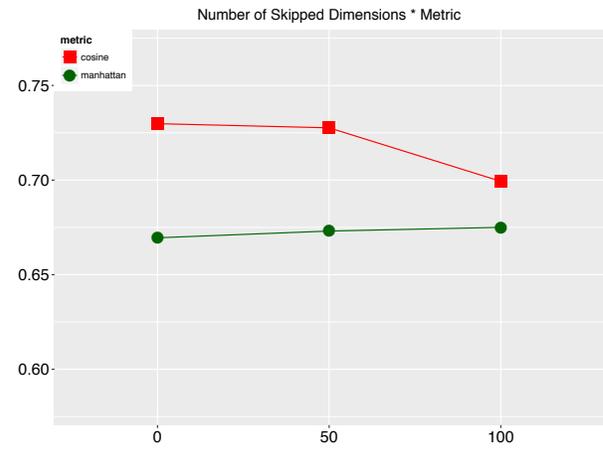


Figure 7.56: ESSLLI,typed,reduced

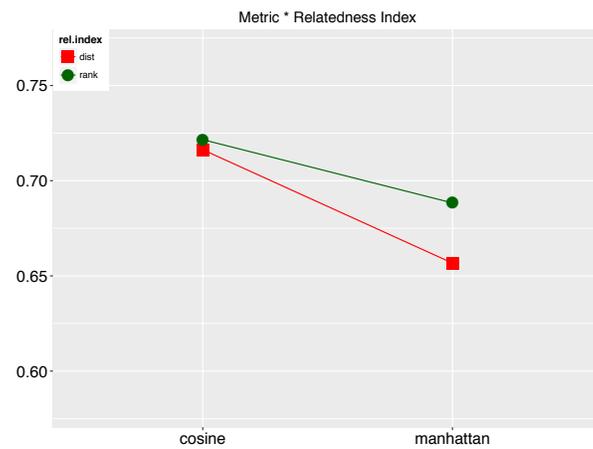


Figure 7.57: ESSLLI,typed,reduced

## 7.8 SYN

### 7.8.1 Main Effects

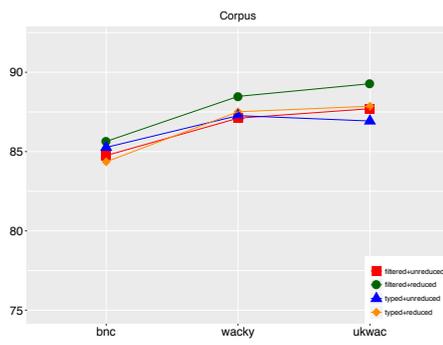


Figure 7.1

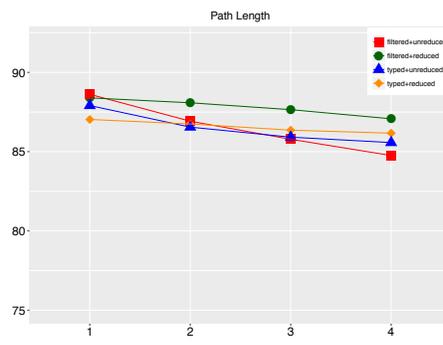


Figure 7.2

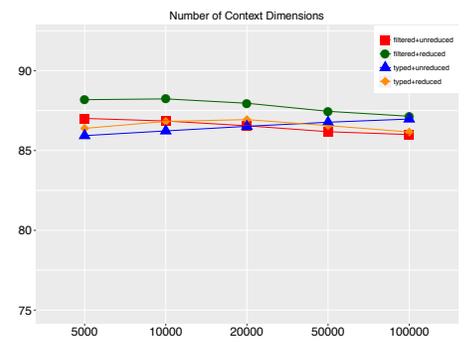


Figure 7.3

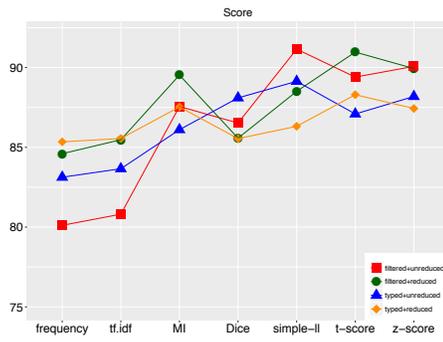


Figure 7.4

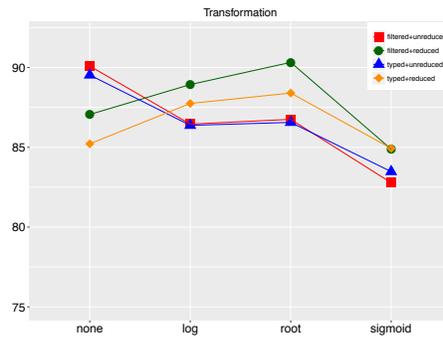


Figure 7.5

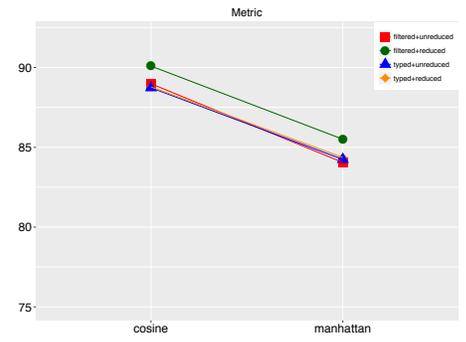


Figure 7.6

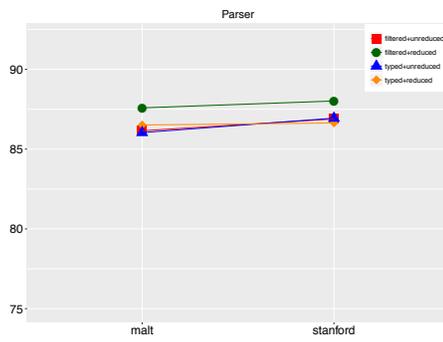


Figure 7.7

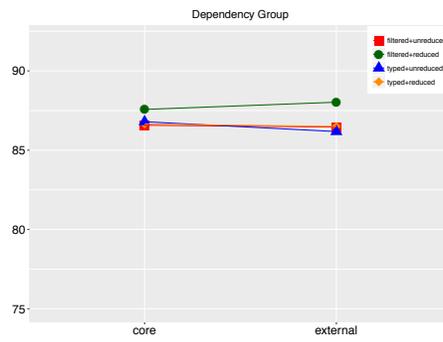


Figure 7.8

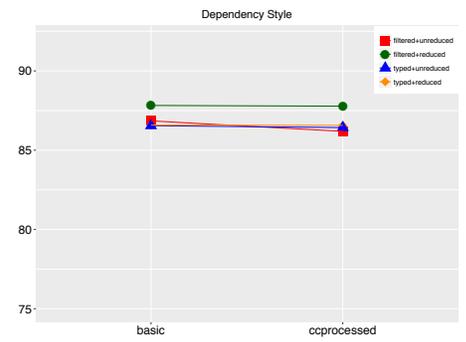


Figure 7.9

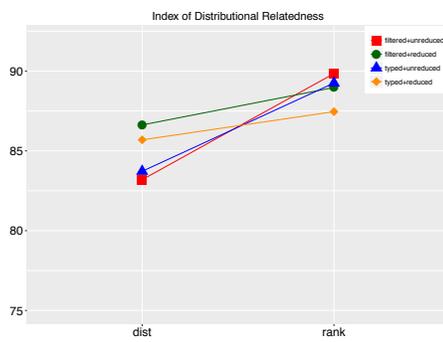


Figure 7.10

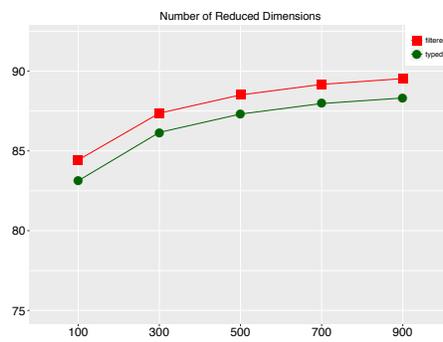


Figure 7.11

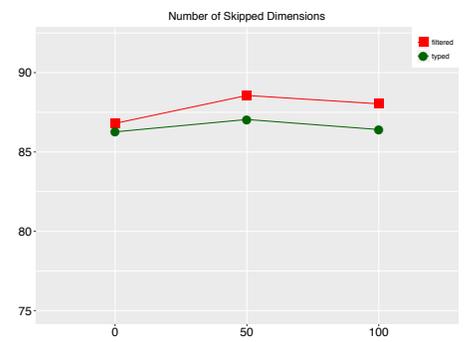


Figure 7.12

## 7.8.2 Interactions: filtered, unreduced

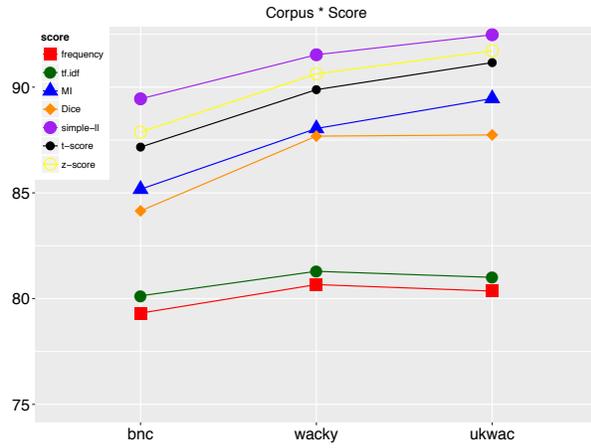


Figure 7.13: SYN, filtered, unreduced

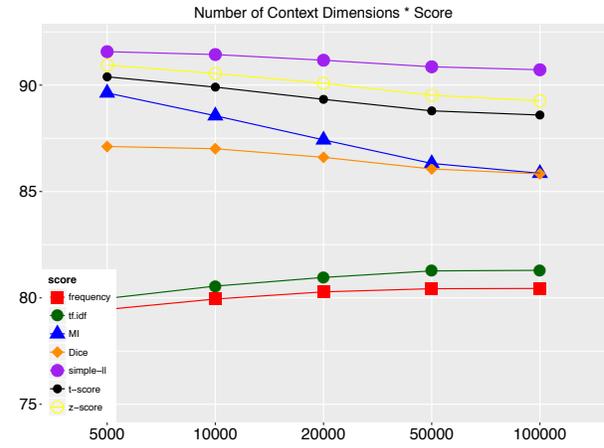


Figure 7.14: SYN, filtered, unreduced

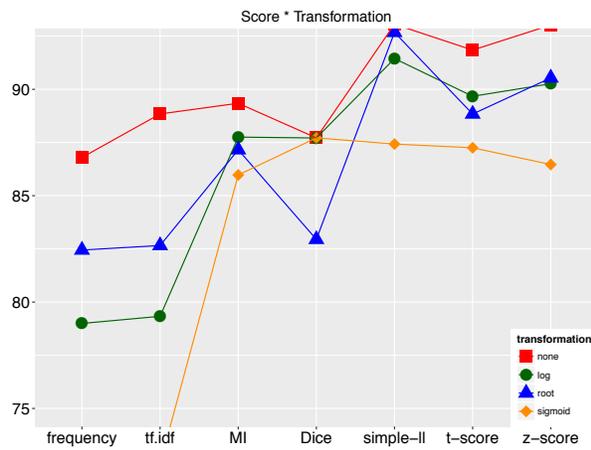


Figure 7.15: SYN, filtered, unreduced

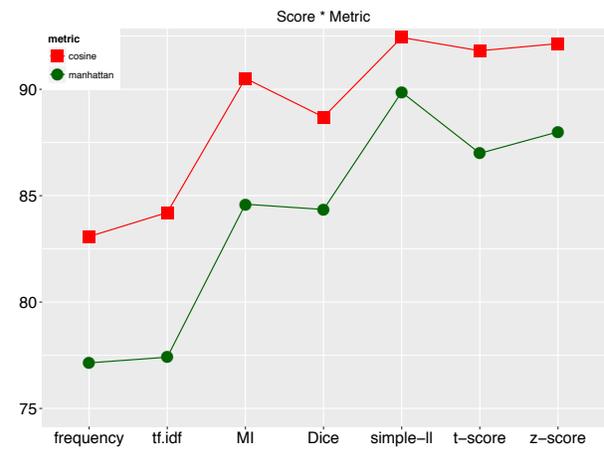


Figure 7.16: SYN, filtered, unreduced

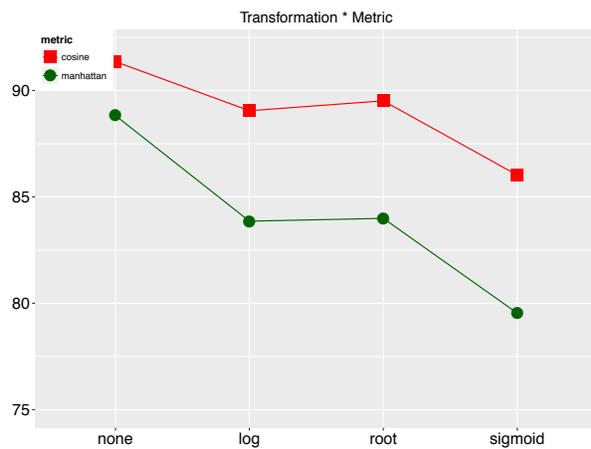


Figure 7.17: SYN, filtered, unreduced

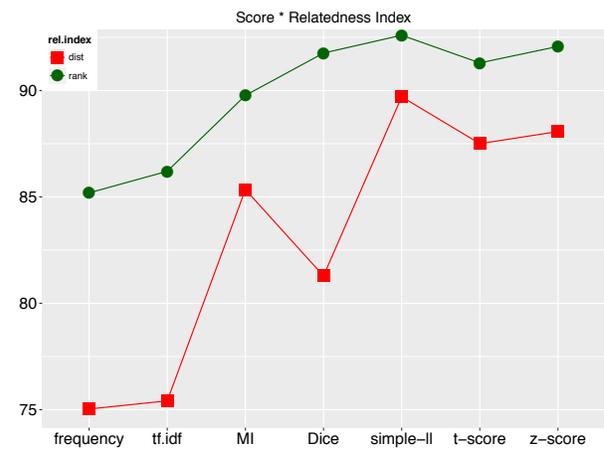


Figure 7.18: SYN, filtered, unreduced

### 7.8.3 Interactions: filtered, reduced

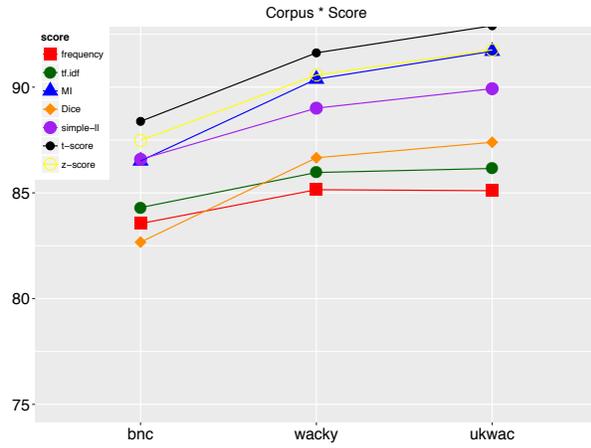


Figure 7.19: SYN,filtered,reduced

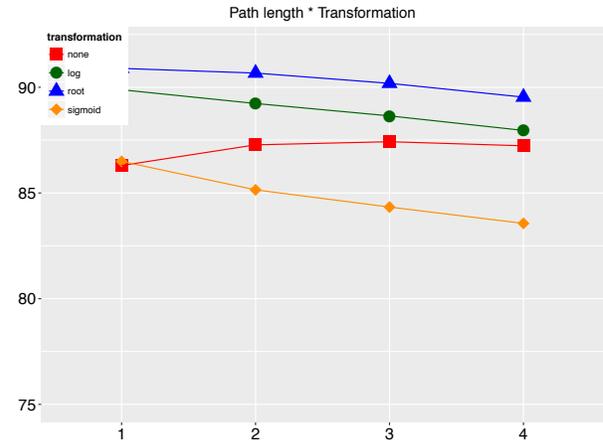


Figure 7.20: SYN,filtered,reduced

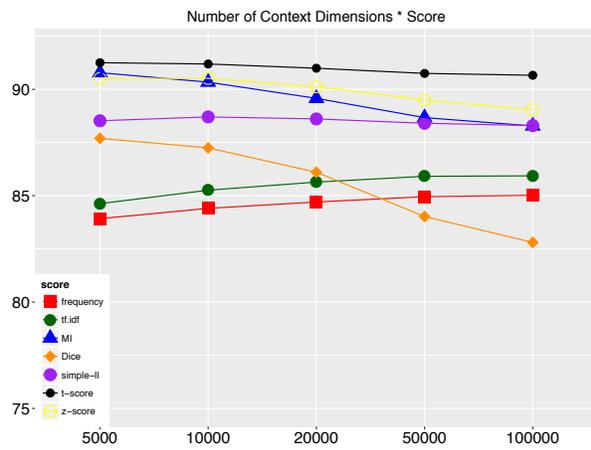


Figure 7.21: SYN,filtered,reduced

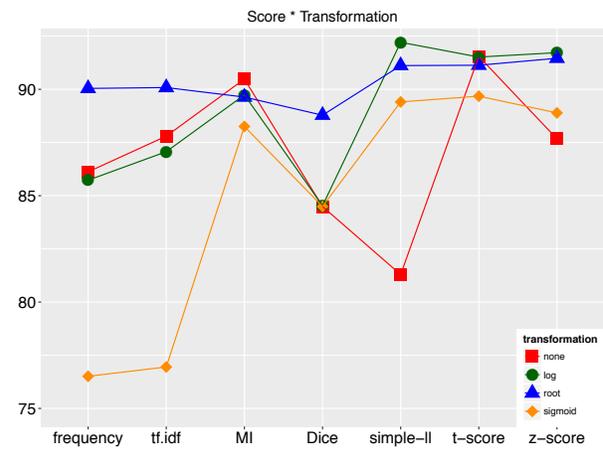


Figure 7.22: SYN,filtered,reduced

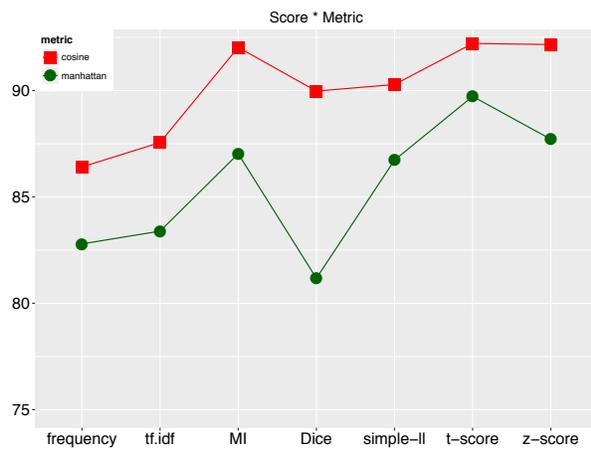


Figure 7.23: SYN,filtered,reduced

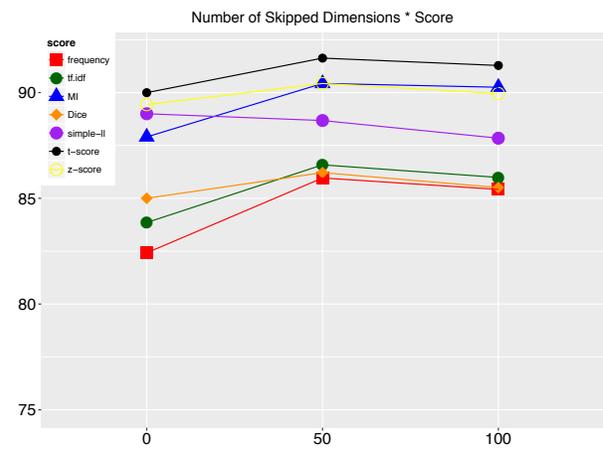


Figure 7.24: SYN,filtered,reduced

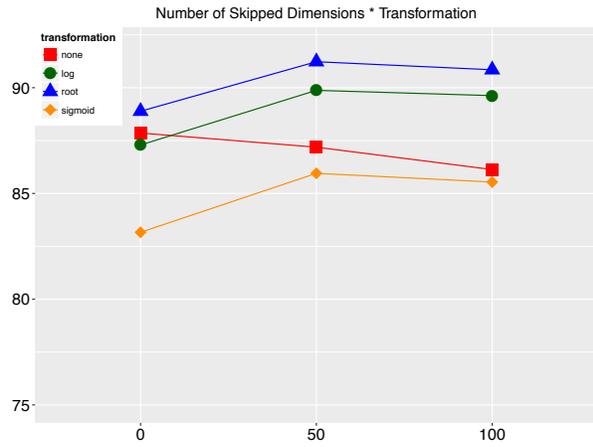


Figure 7.25: SYN,filtered,reduced

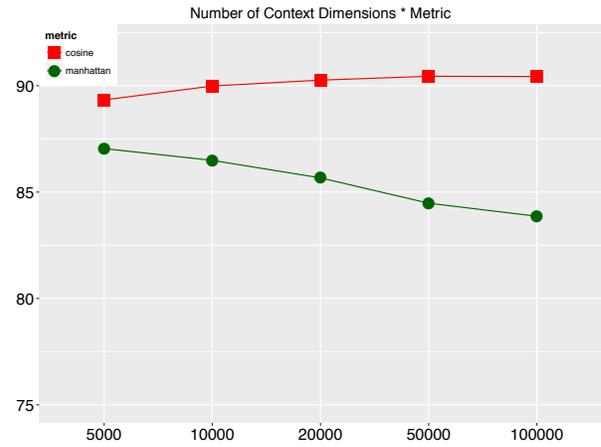


Figure 7.26: SYN,filtered,reduced

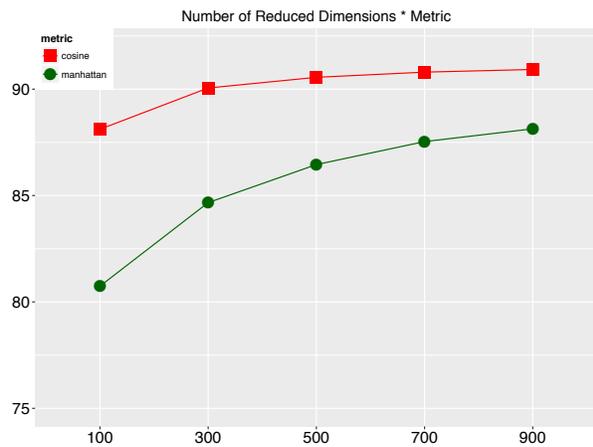


Figure 7.27: SYN,filtered,reduced

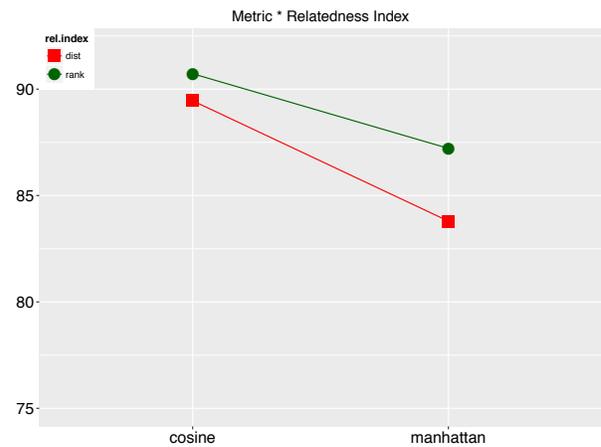


Figure 7.28: SYN,filtered,reduced

### 7.8.4 Interactions: typed, unreduced

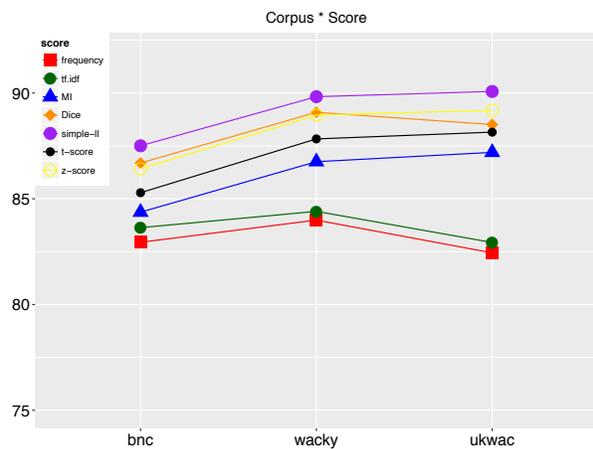


Figure 7.29: SYN,typed,unreduced

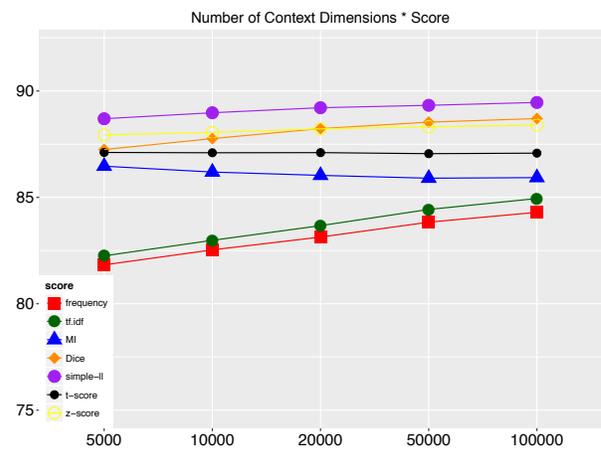


Figure 7.30: SYN,typed,unreduced

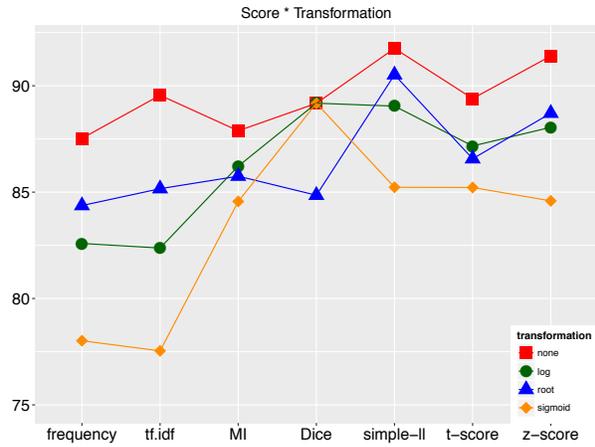


Figure 7.31: SYN,typed,unreduced

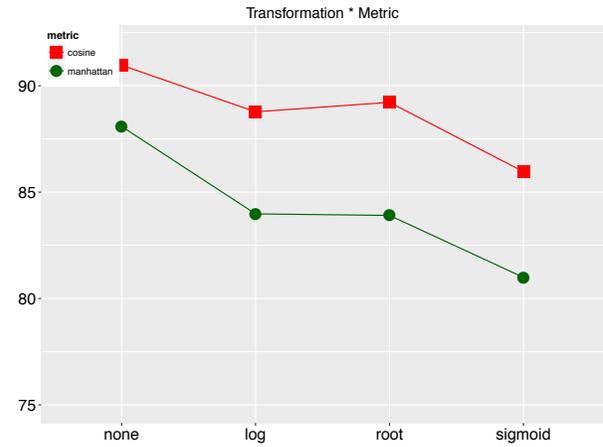


Figure 7.32: SYN,typed,unreduced

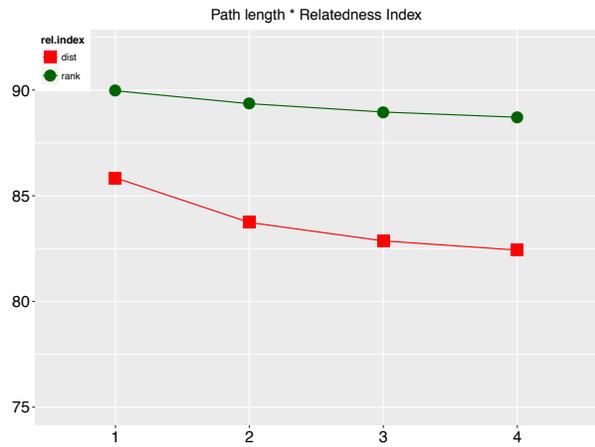


Figure 7.33: SYN,typed,unreduced

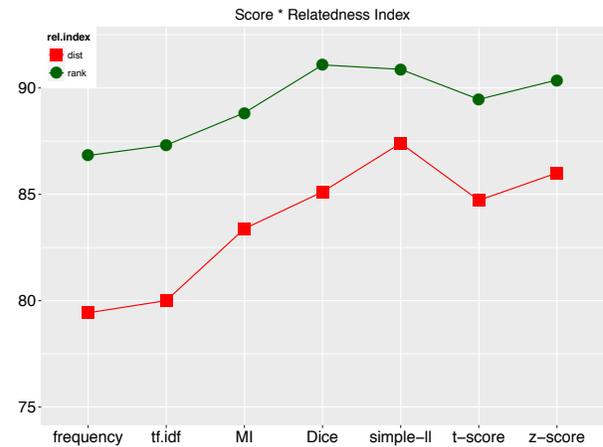


Figure 7.34: SYN,typed,unreduced

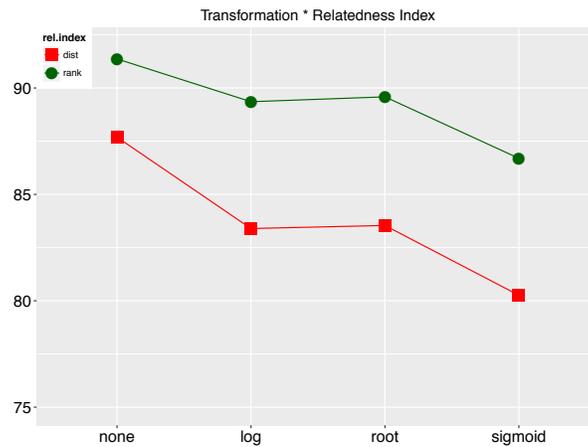


Figure 7.35: SYN,typed,unreduced

## 7.8.5 Interactions: typed, reduced

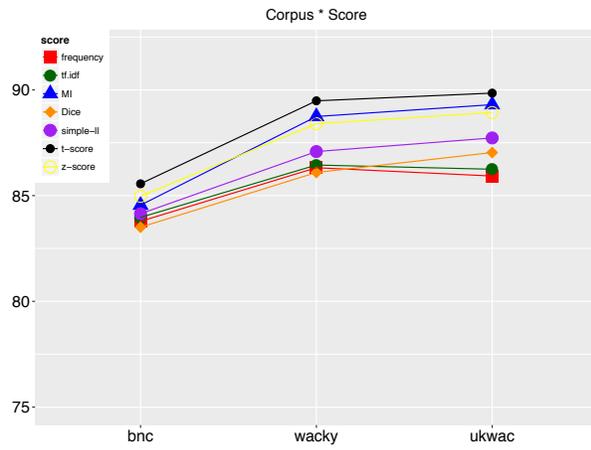


Figure 7.36: SYN,typed,reduced

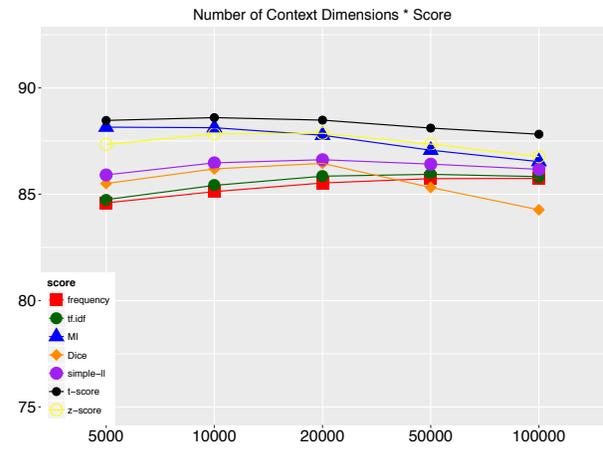


Figure 7.37: SYN,typed,reduced

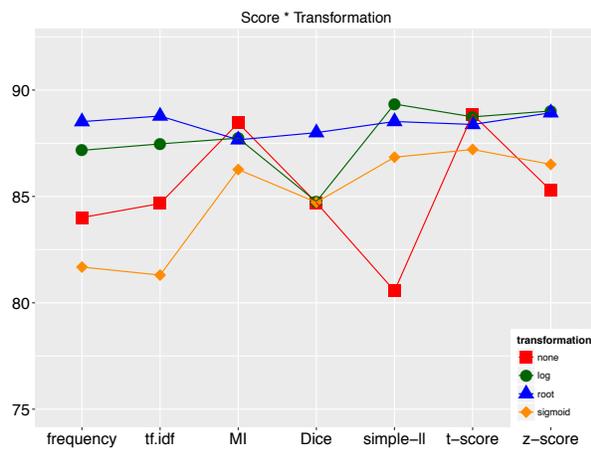


Figure 7.38: SYN,typed,reduced

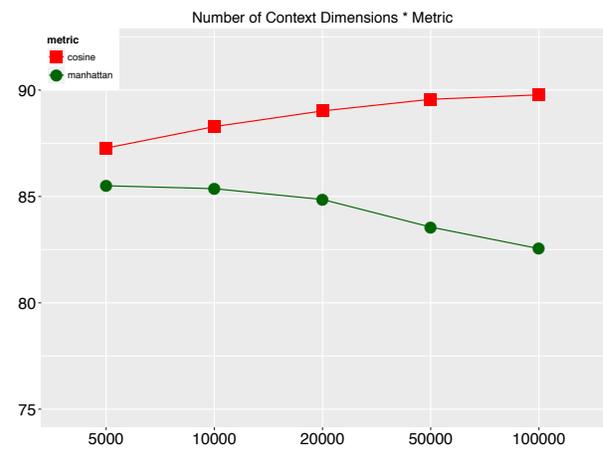


Figure 7.39: SYN,typed,reduced

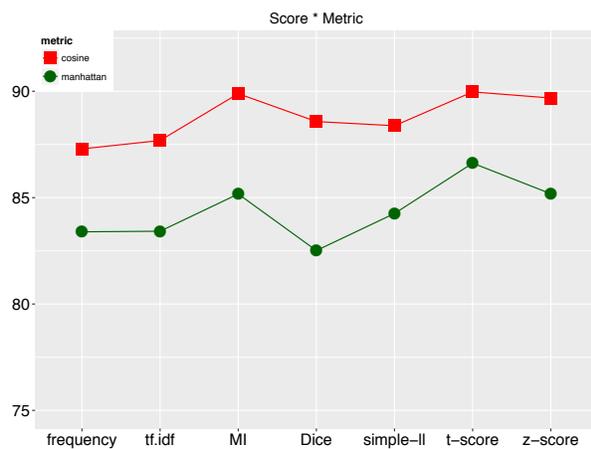


Figure 7.40: SYN,typed,reduced

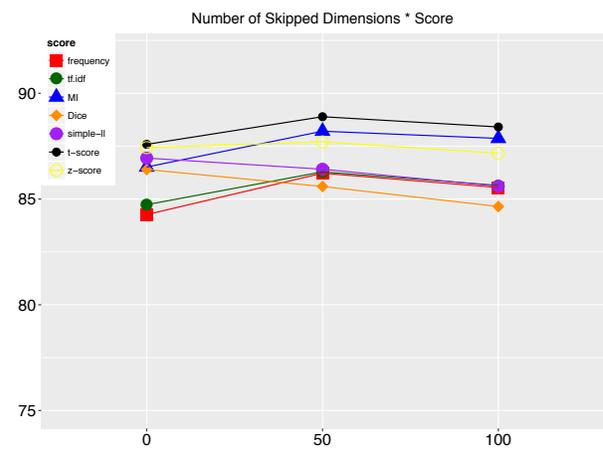


Figure 7.41: SYN,typed,reduced

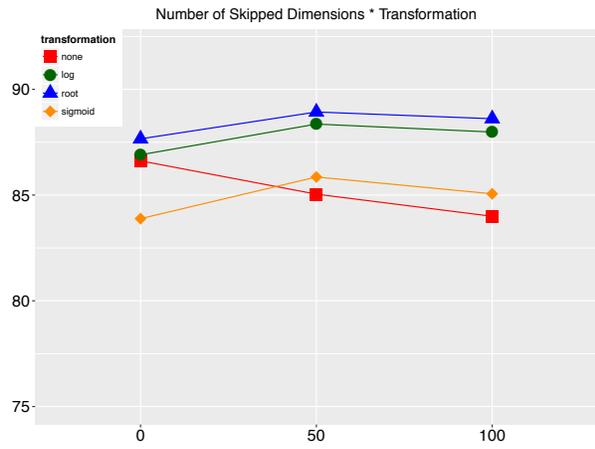


Figure 7.42: SYN,typed, reduced

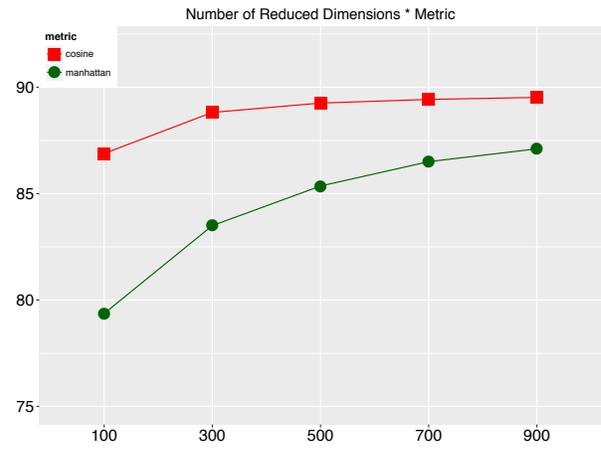


Figure 7.43: SYN,typed, reduced

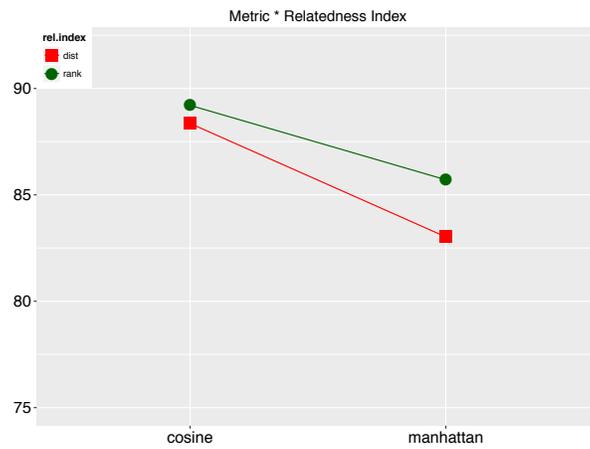


Figure 7.44: SYN,typed, reduced

## 7.9 ANT

### 7.9.1 Main Effects

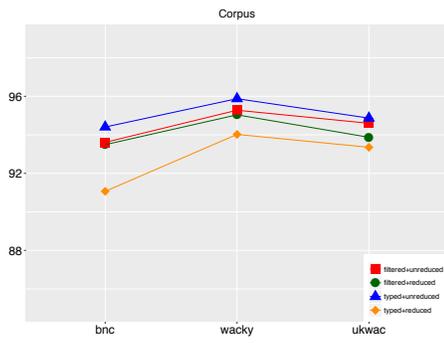


Figure 7.1

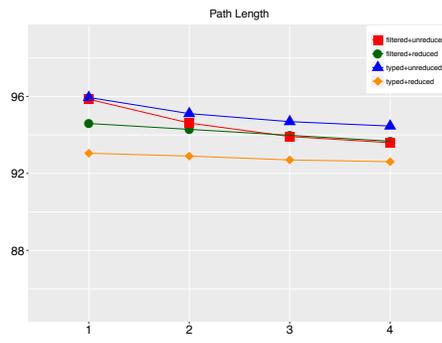


Figure 7.2

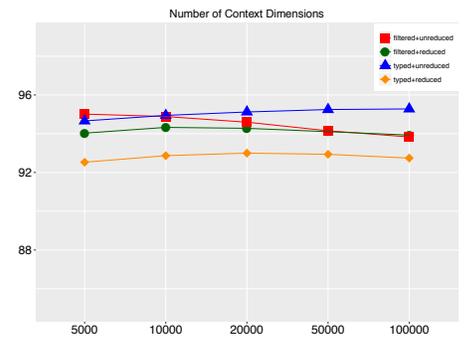


Figure 7.3

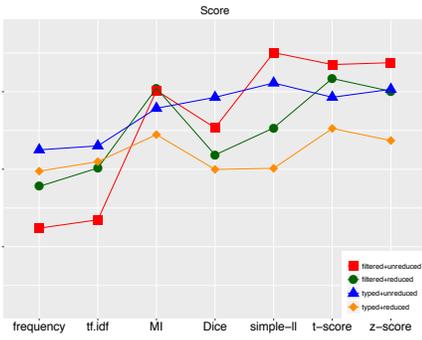


Figure 7.4

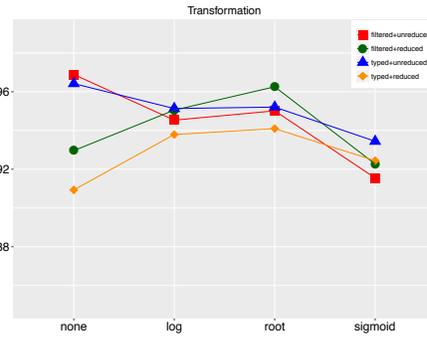


Figure 7.5

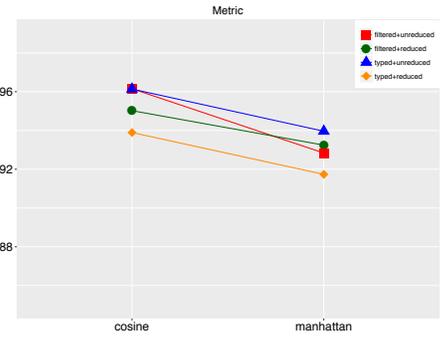


Figure 7.6

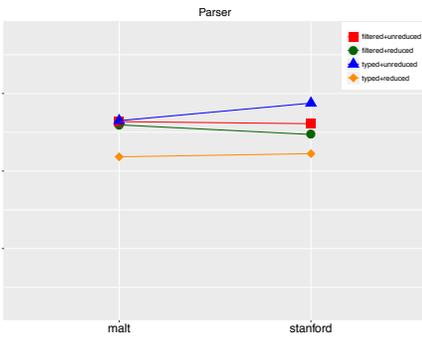


Figure 7.7

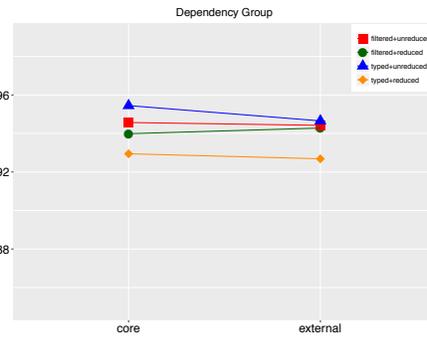


Figure 7.8

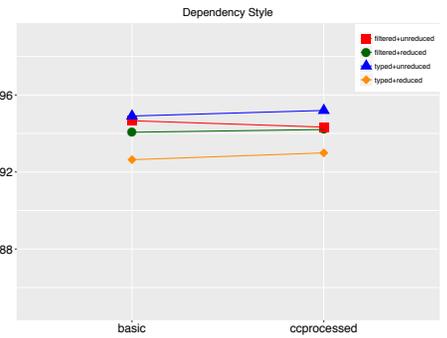


Figure 7.9

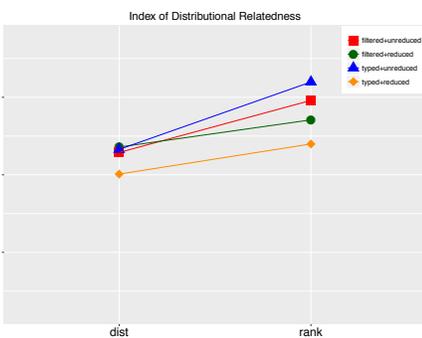


Figure 7.10

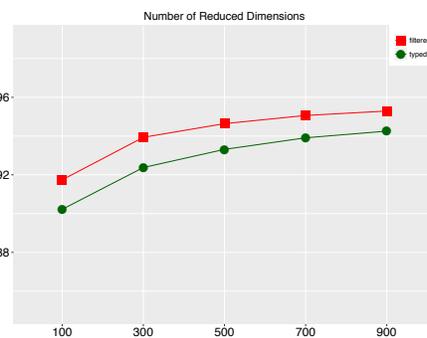


Figure 7.11

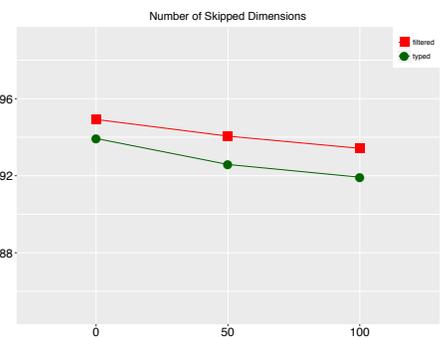


Figure 7.12

## 7.9.2 Interactions: filtered, unreduced

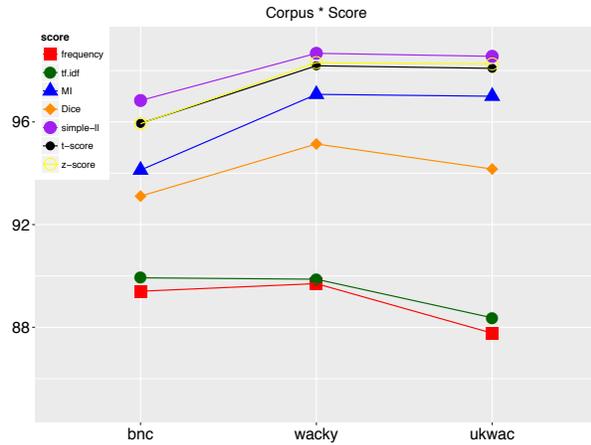


Figure 7.13: ANT, filtered, unreduced

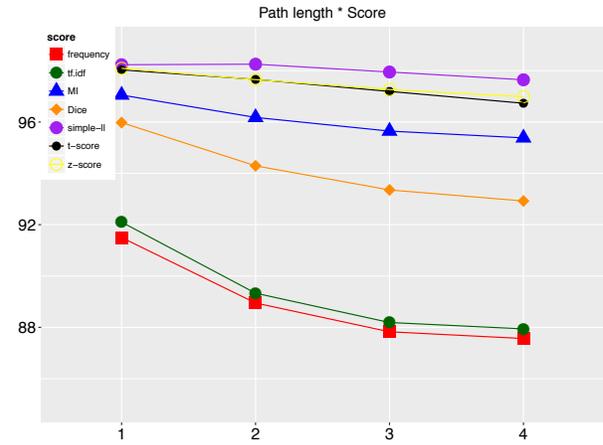


Figure 7.14: ANT, filtered, unreduced

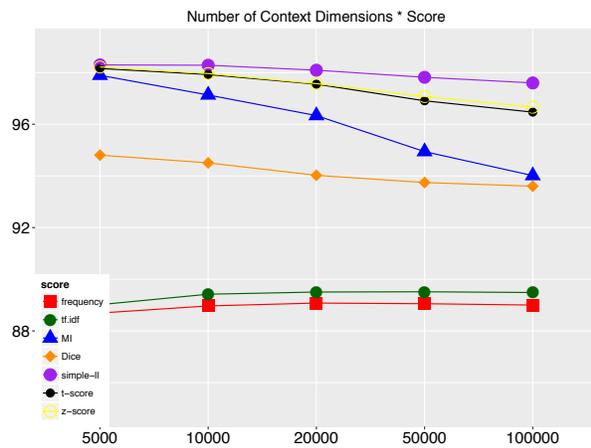


Figure 7.15: ANT, filtered, unreduced

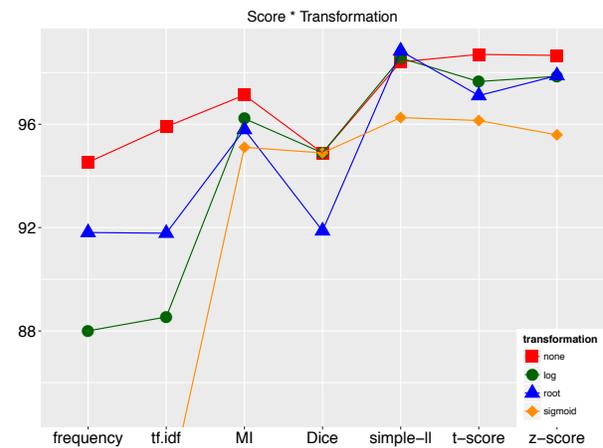


Figure 7.16: ANT, filtered, unreduced

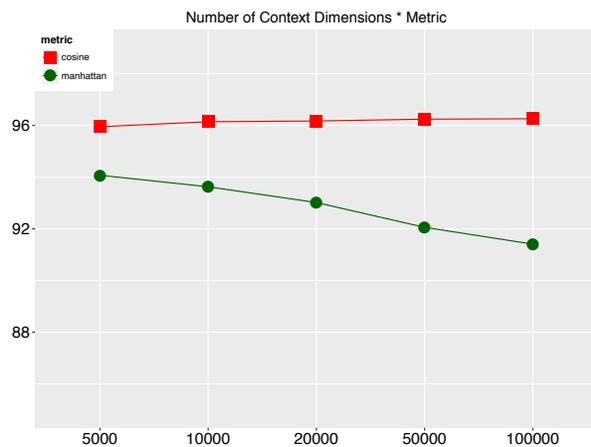


Figure 7.17: ANT, filtered, unreduced

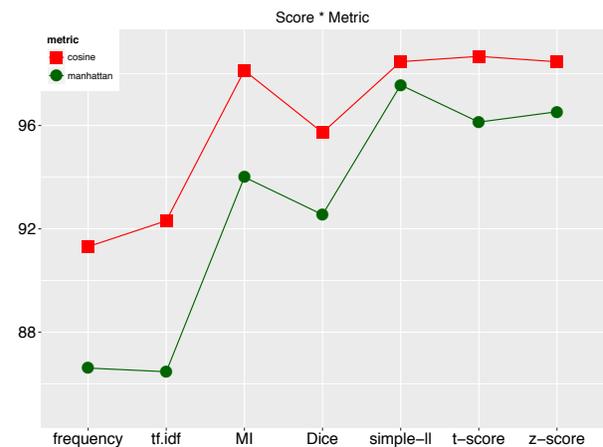


Figure 7.18: ANT, filtered, unreduced

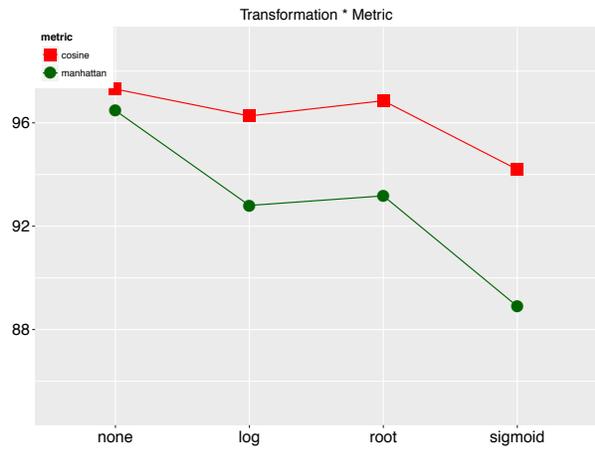


Figure 7.19: ANT, filtered, unreduced

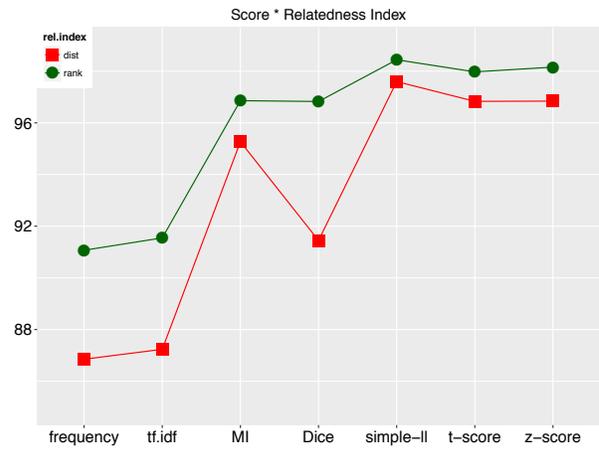


Figure 7.20: ANT, filtered, unreduced

### 7.9.3 Interactions: filtered, reduced

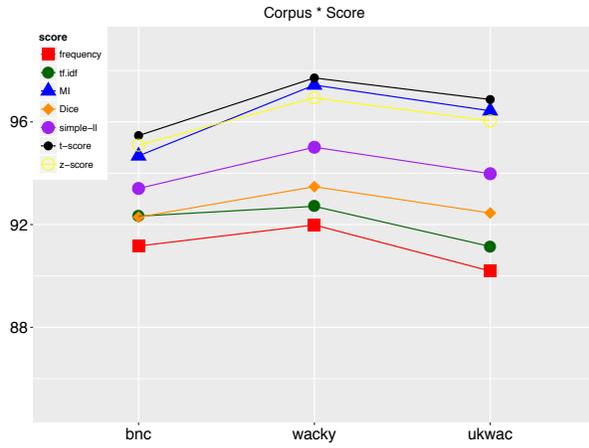


Figure 7.21: ANT,filtered, reduced

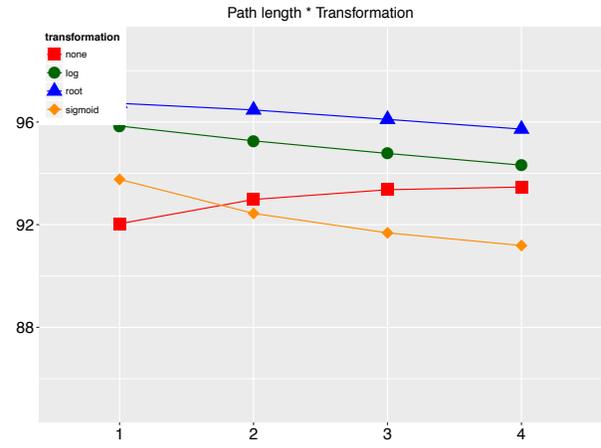


Figure 7.22: ANT,filtered, reduced

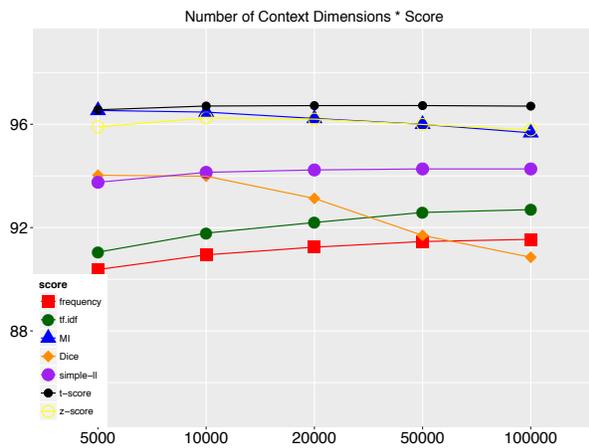


Figure 7.23: ANT,filtered, reduced

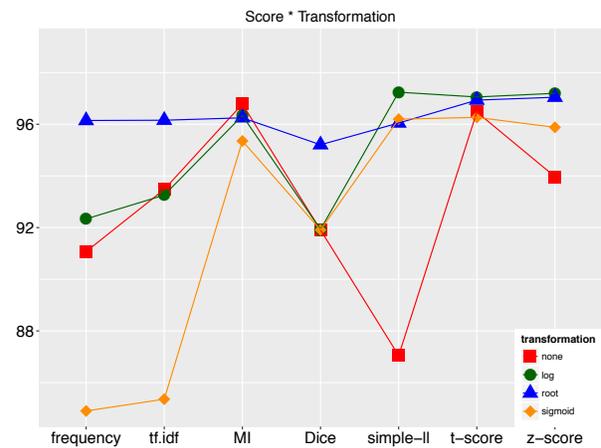


Figure 7.24: ANT,filtered, reduced

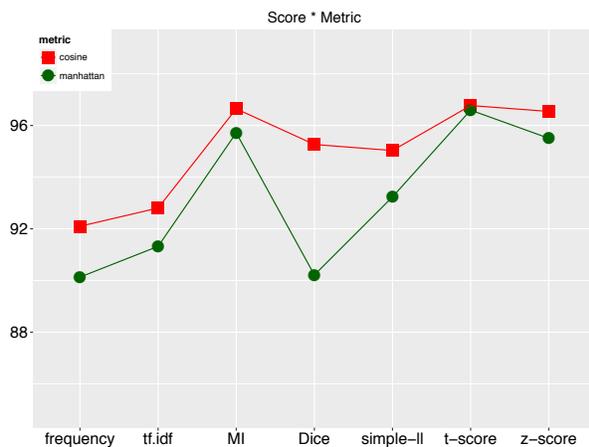


Figure 7.25: ANT,filtered, reduced

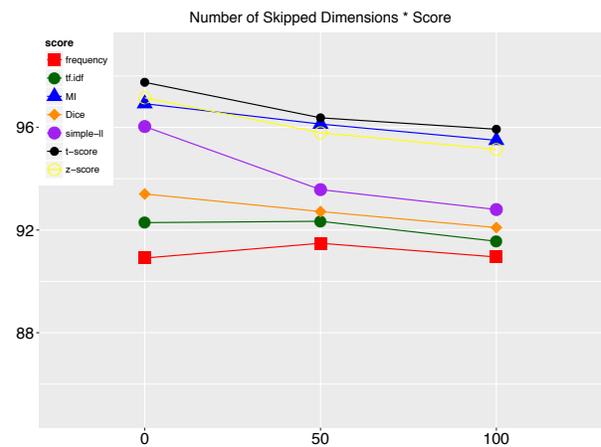


Figure 7.26: ANT,filtered, reduced

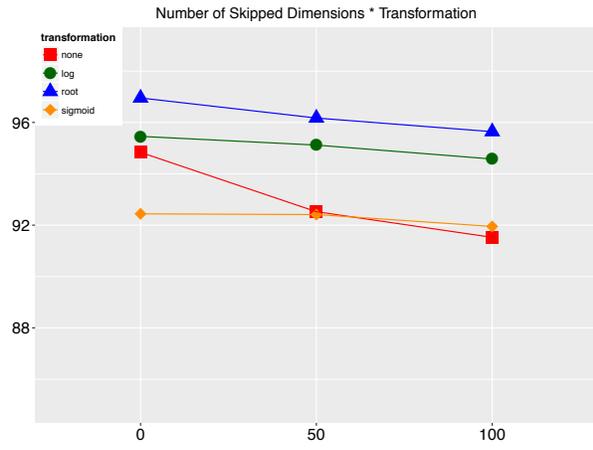


Figure 7.27: ANT,filtered,reduced

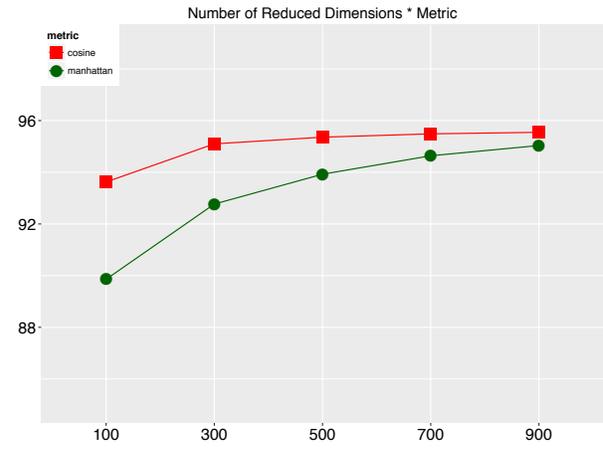


Figure 7.28: ANT,filtered,reduced

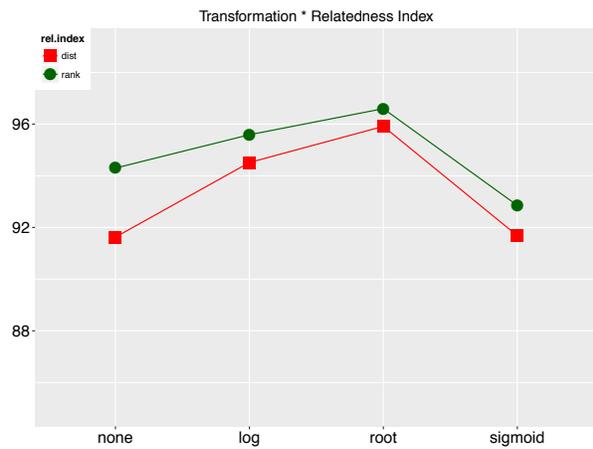


Figure 7.29: ANT,filtered,reduced

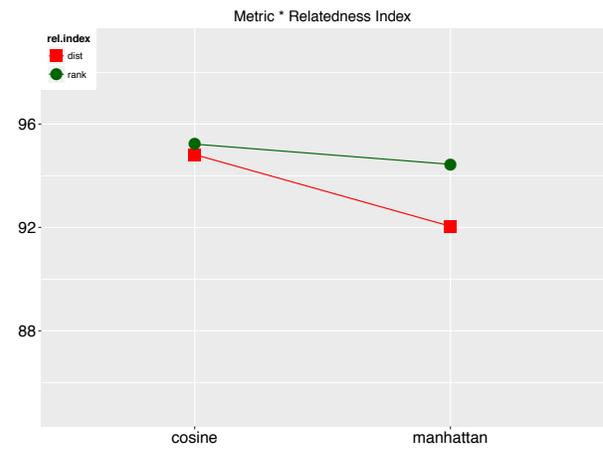


Figure 7.30: ANT,filtered,reduced

### 7.9.4 Interactions: typed, unreduced

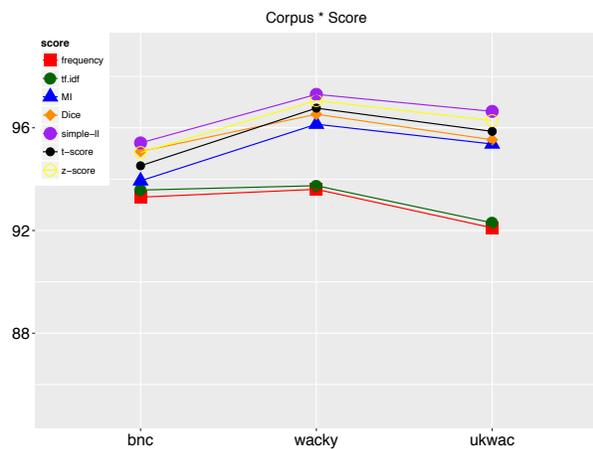


Figure 7.31: ANT,typed,unreduced

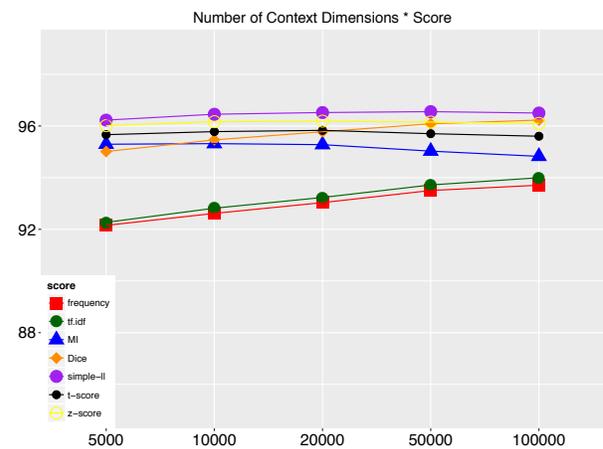


Figure 7.32: ANT,typed,unreduced

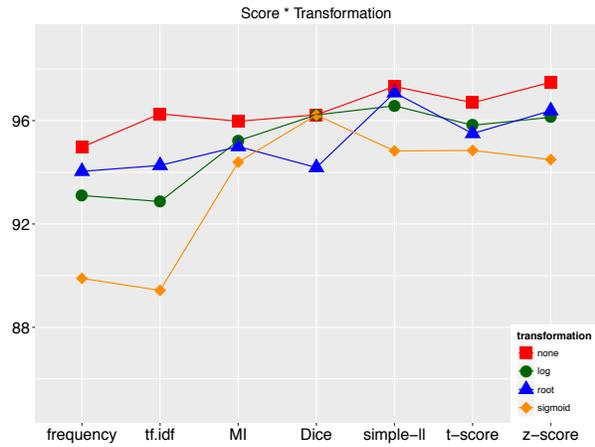


Figure 7.33: ANT,typed,unreduced

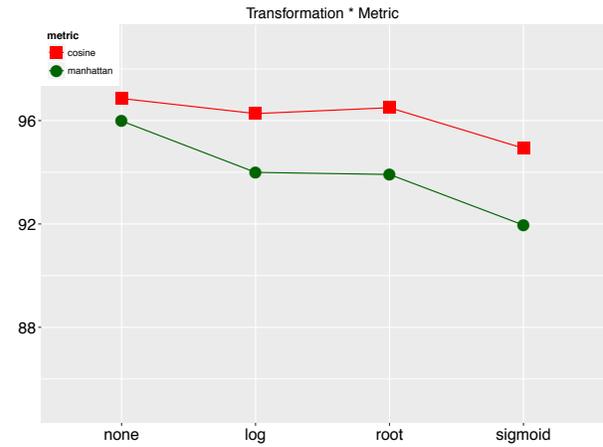


Figure 7.34: ANT,typed,unreduced

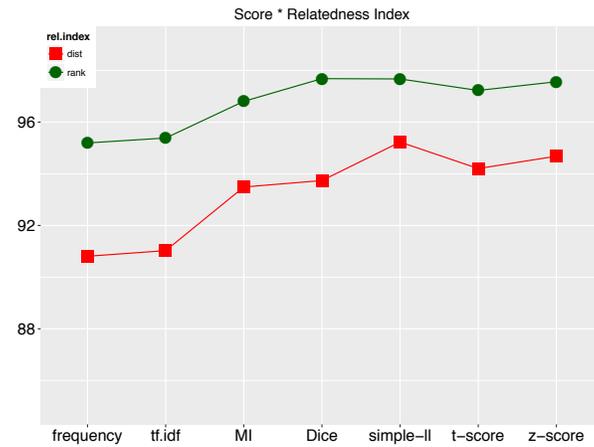


Figure 7.35: ANT,typed,unreduced

### 7.9.5 Interactions: typed, reduced

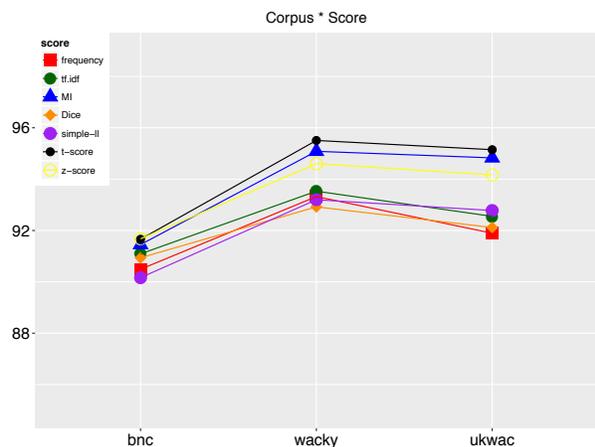


Figure 7.36: ANT,typed,reduced

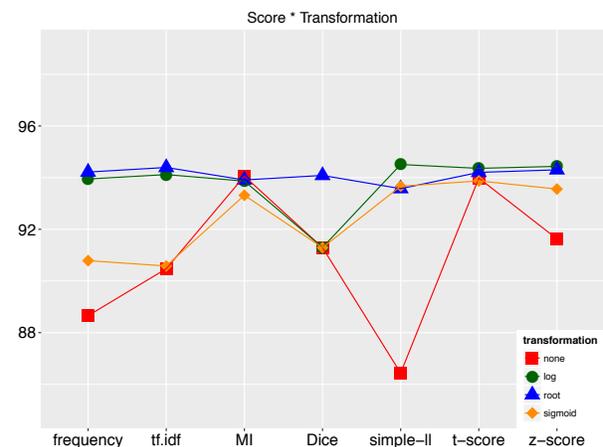


Figure 7.37: ANT,typed,reduced

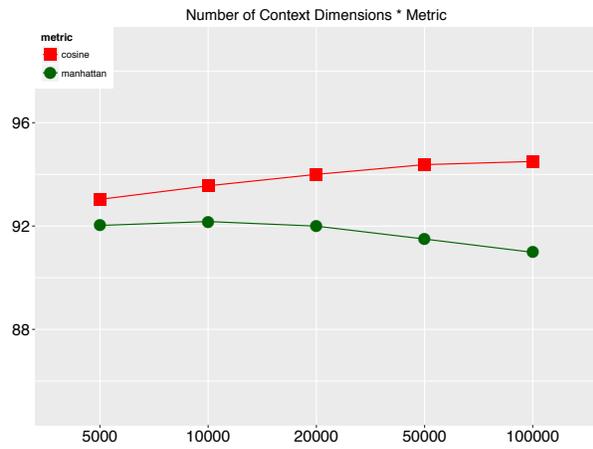


Figure 7.38: ANT,typed,reduced

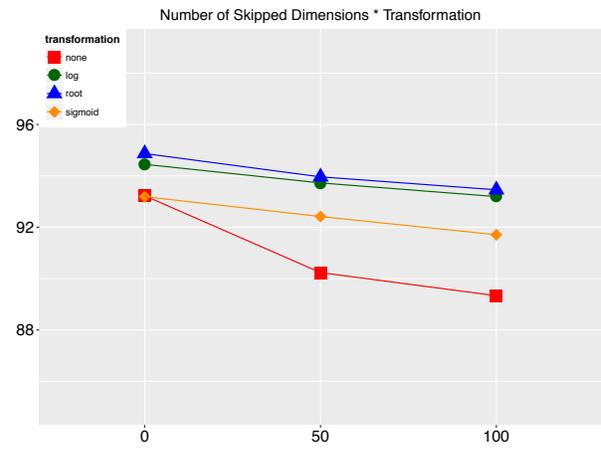


Figure 7.39: ANT,typed,reduced

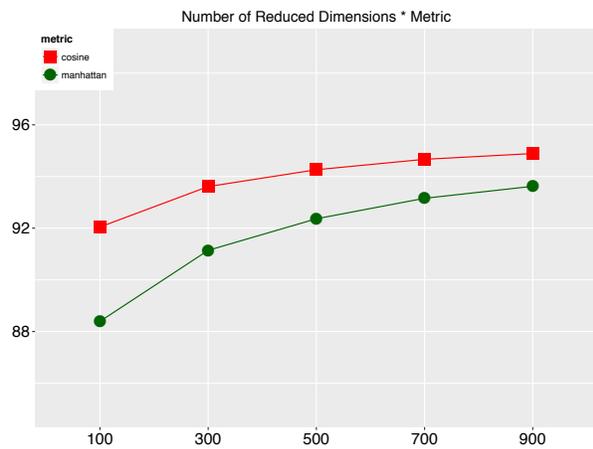


Figure 7.40: ANT,typed,reduced

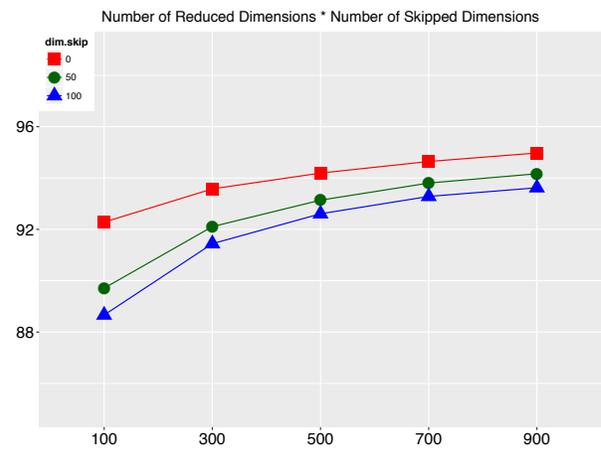


Figure 7.41: ANT,typed,reduced

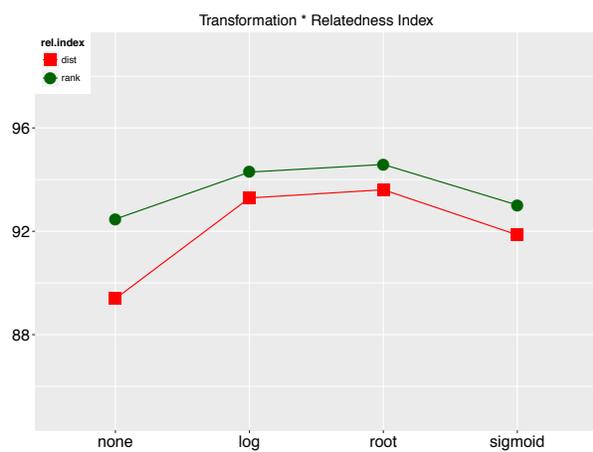


Figure 7.42: ANT,typed,reduced

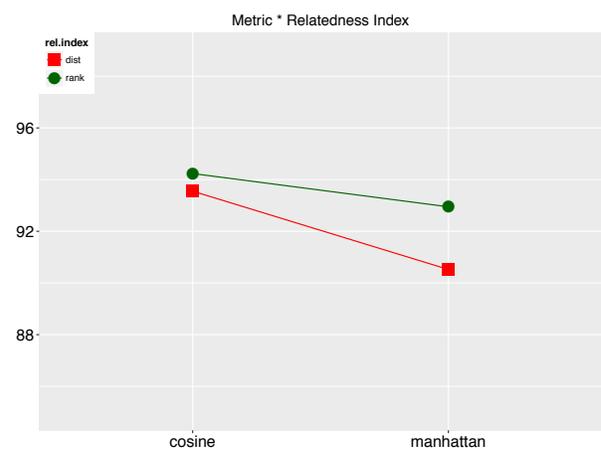


Figure 7.43: ANT,typed,reduced

# 7.10 COH

## 7.10.1 Main Effects

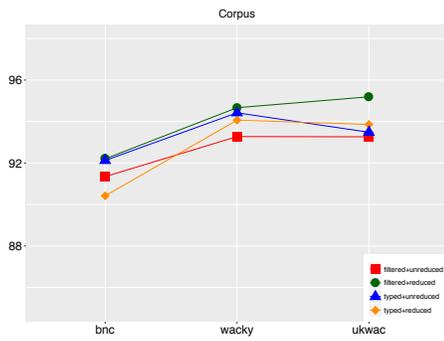


Figure 7.1

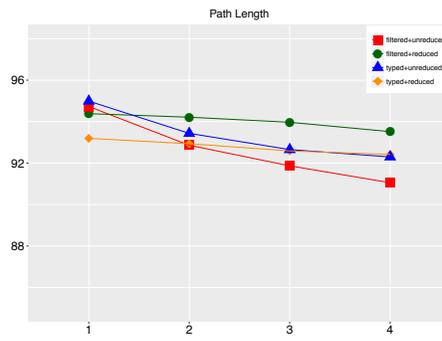


Figure 7.2

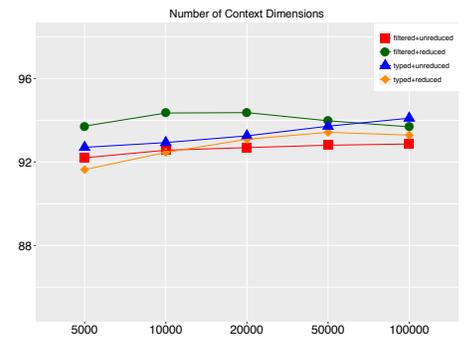


Figure 7.3

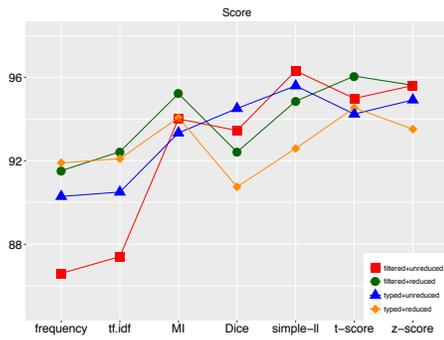


Figure 7.4

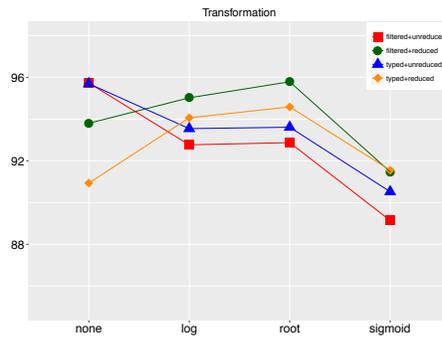


Figure 7.5

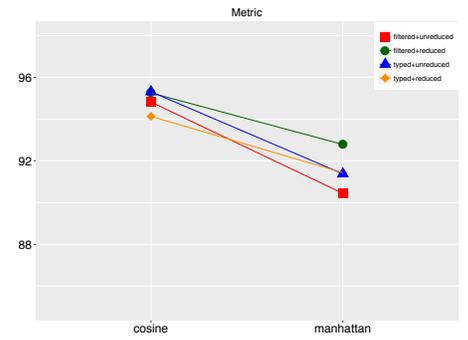


Figure 7.6

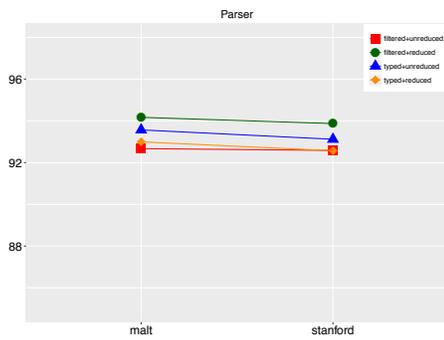


Figure 7.7

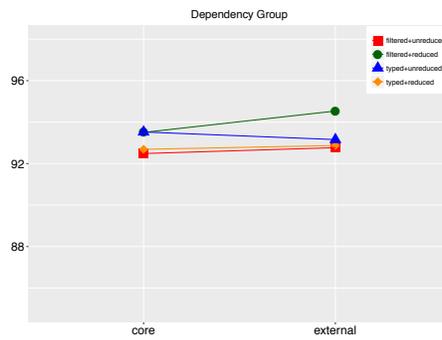


Figure 7.8

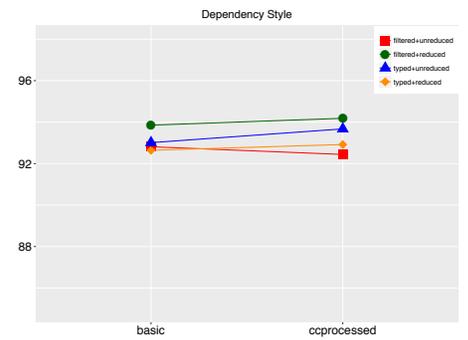


Figure 7.9

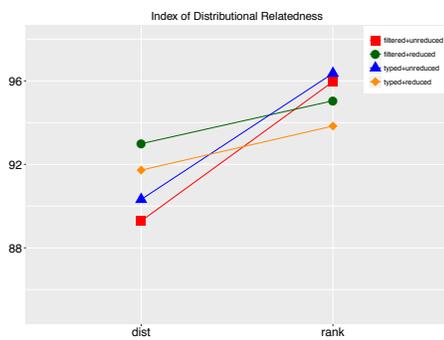


Figure 7.10

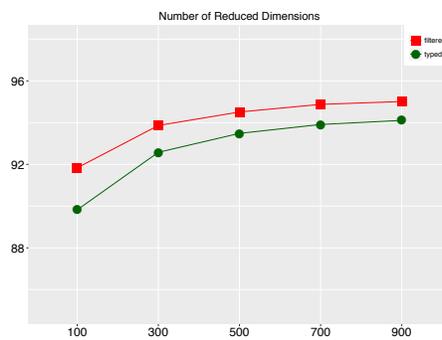


Figure 7.11

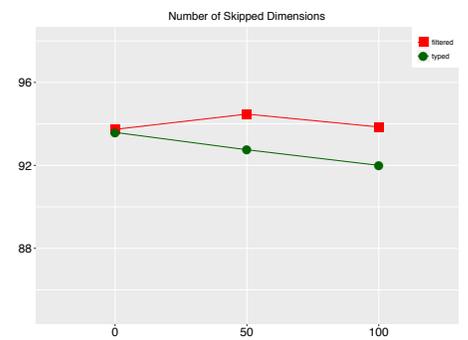


Figure 7.12

## 7.10.2 Interactions: filtered, unreduced

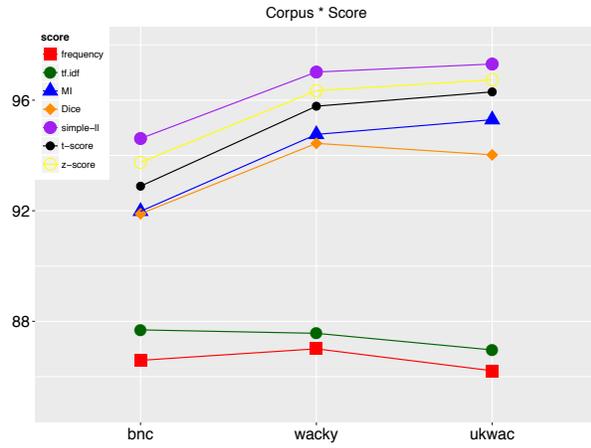


Figure 7.13: COH,filtered,unreduced

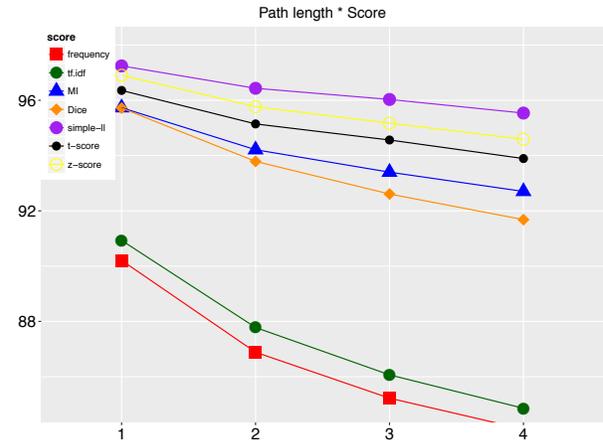


Figure 7.14: COH, filtered, unreduced

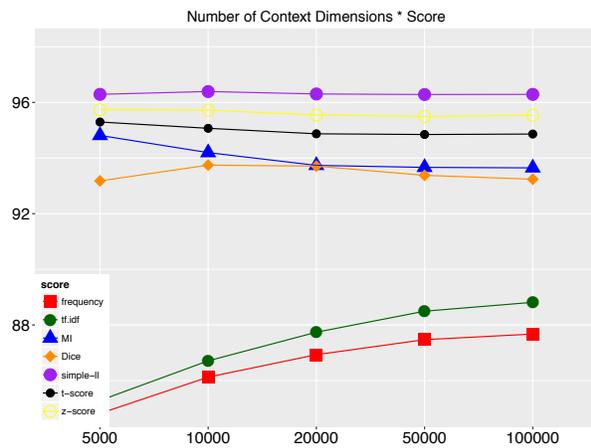


Figure 7.15: COH,filtered,unreduced

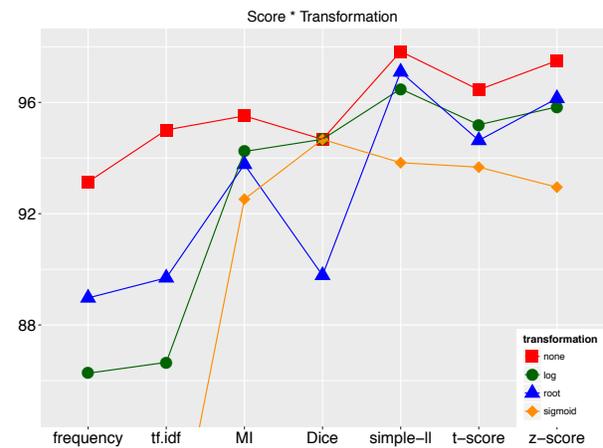


Figure 7.16: COH, filtered, unreduced

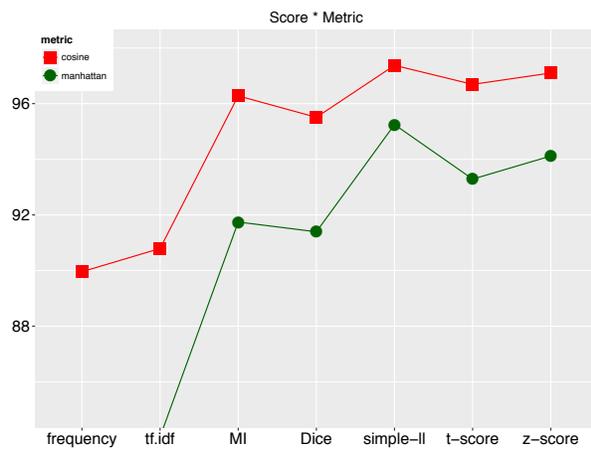


Figure 7.17: COH,filtered,unreduced

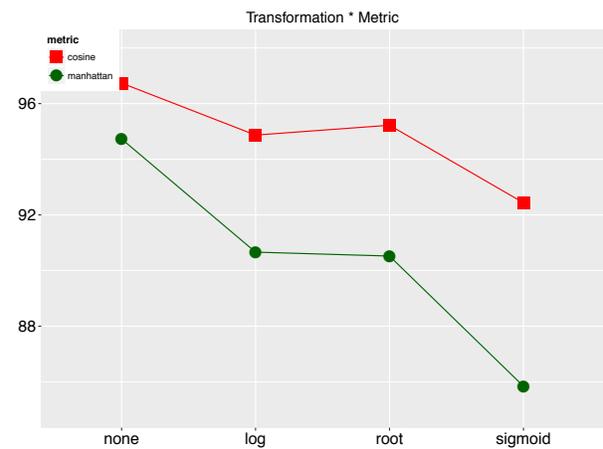


Figure 7.18: COH, filtered, unreduced

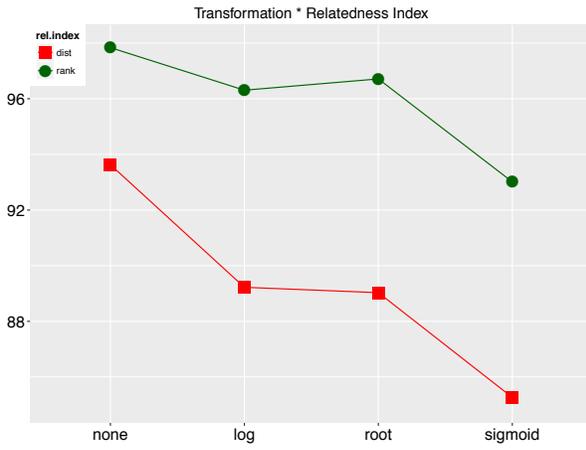


Figure 7.19: COH, filtered, unreduced

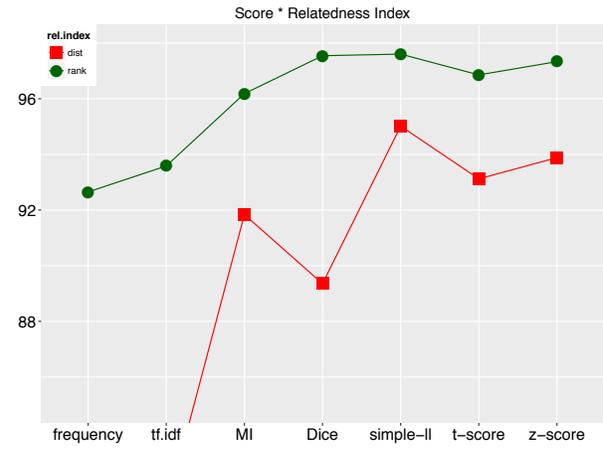


Figure 7.20: COH, filtered, unreduced

### 7.10.3 Interactions: filtered, reduced

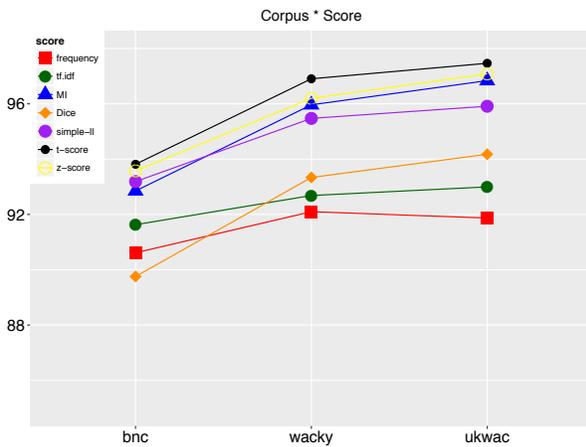


Figure 7.21: COH, filtered, reduced

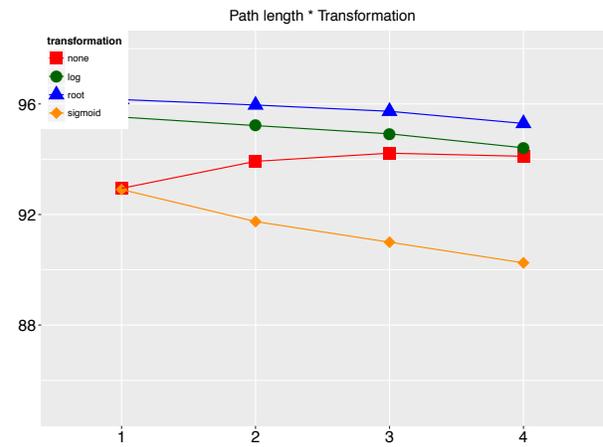


Figure 7.22: COH, filtered, reduced

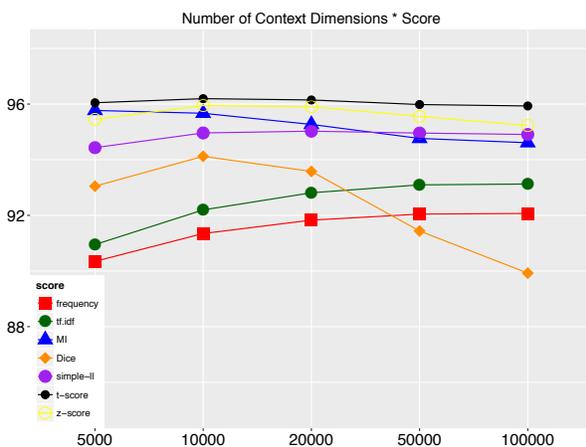


Figure 7.23: COH, filtered, reduced

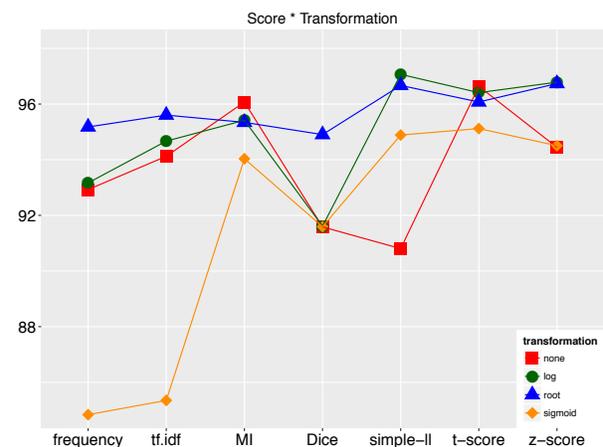


Figure 7.24: COH, filtered, reduced

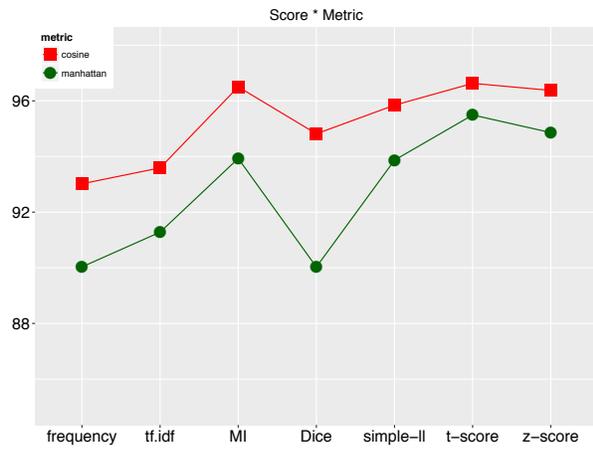


Figure 7.25: COH,filtered,reduced

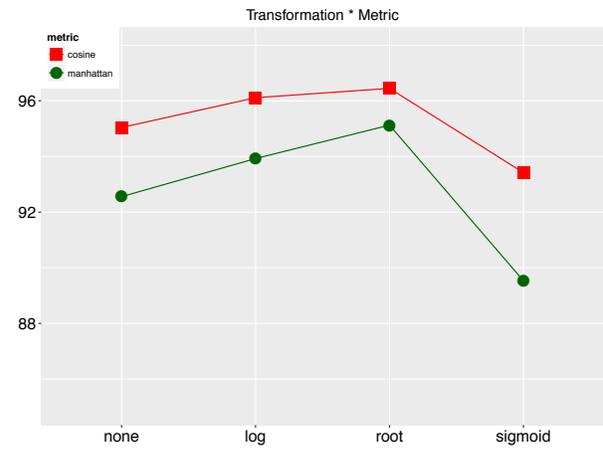


Figure 7.26: COH,filtered,reduced

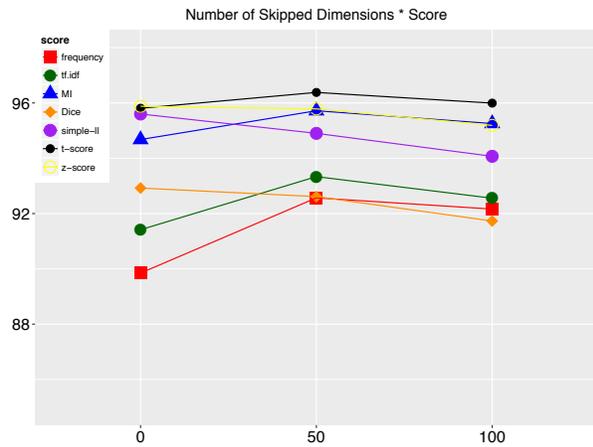


Figure 7.27: COH,filtered,reduced

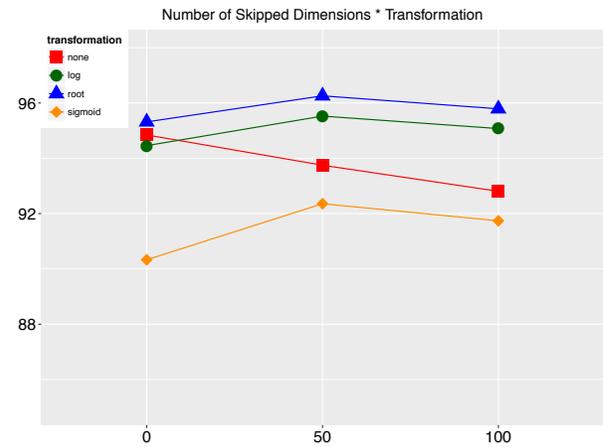


Figure 7.28: COH,filtered,reduced

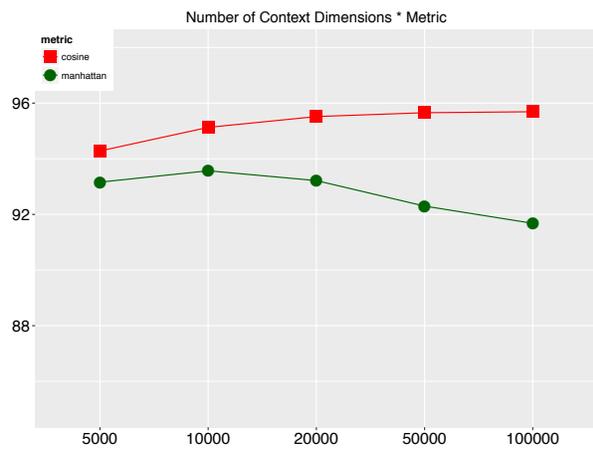


Figure 7.29: COH,filtered,reduced

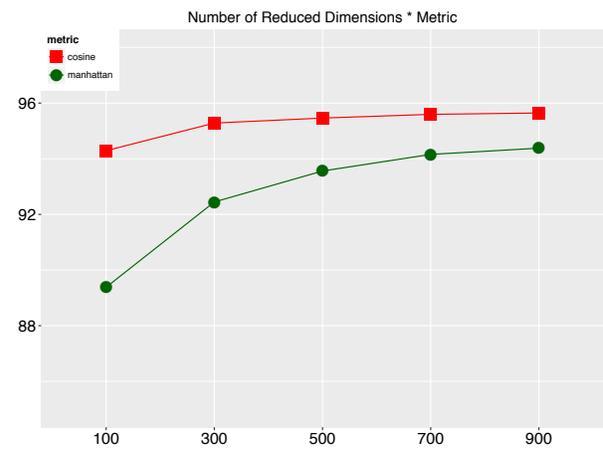


Figure 7.30: COH,filtered,reduced

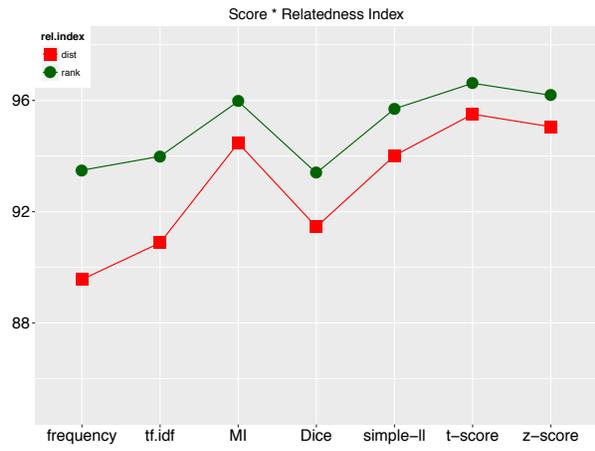


Figure 7.31: COH,filtered,reduced

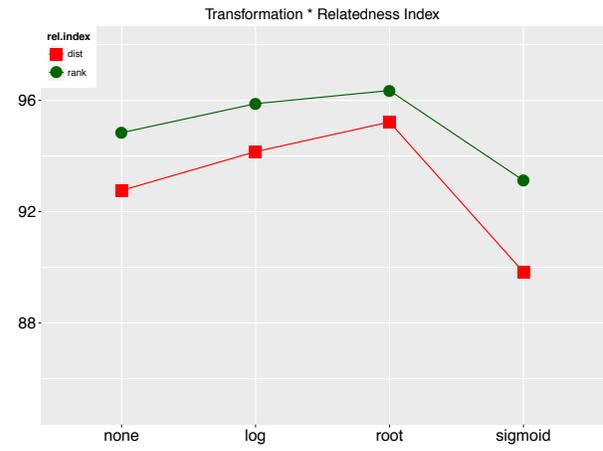


Figure 7.32: COH,filtered,reduced

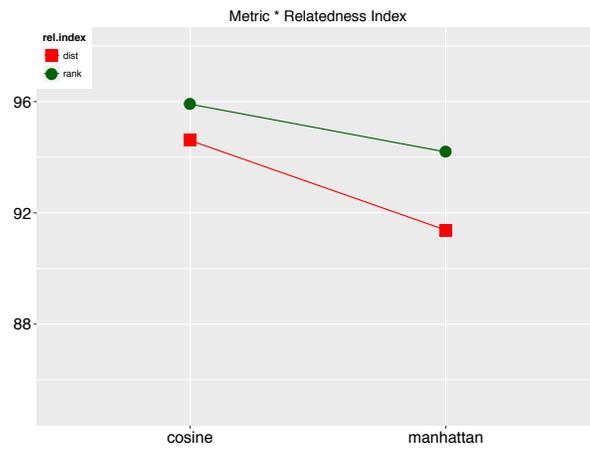


Figure 7.33: COH,filtered,reduced

### 7.10.4 Interactions: typed, unreduced

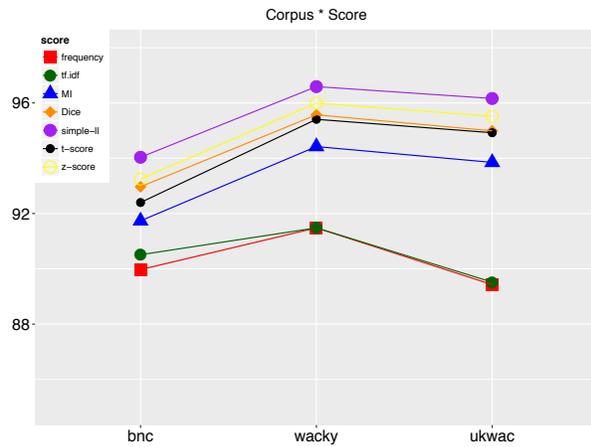


Figure 7.34: COH,typed,unreduced

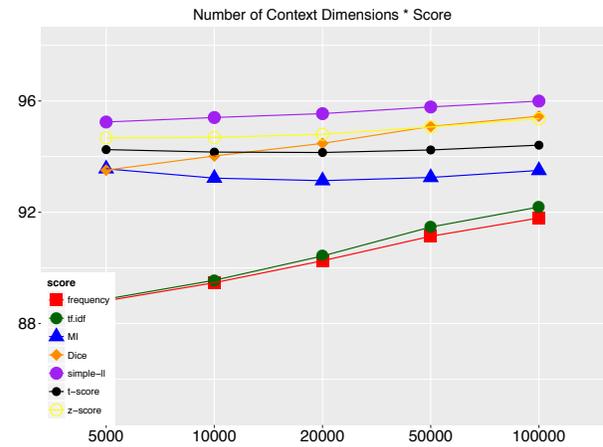


Figure 7.35: COH,typed,unreduced

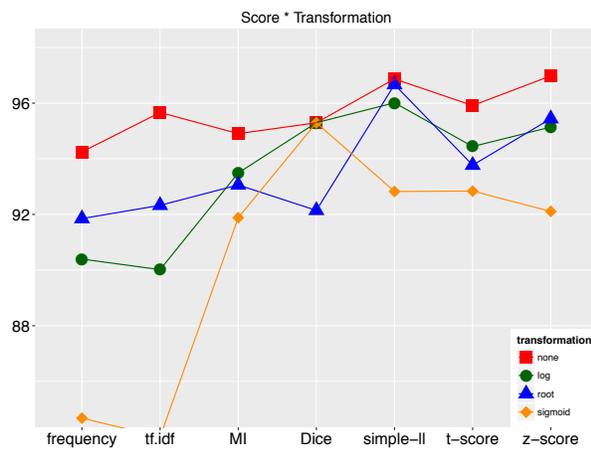


Figure 7.36: COH,typed,unreduced

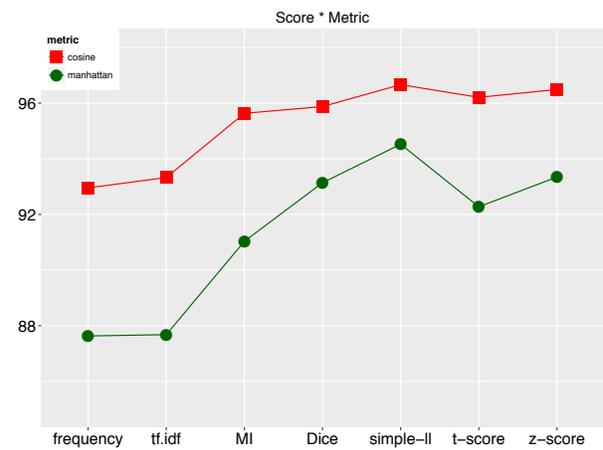


Figure 7.37: COH,typed,unreduced

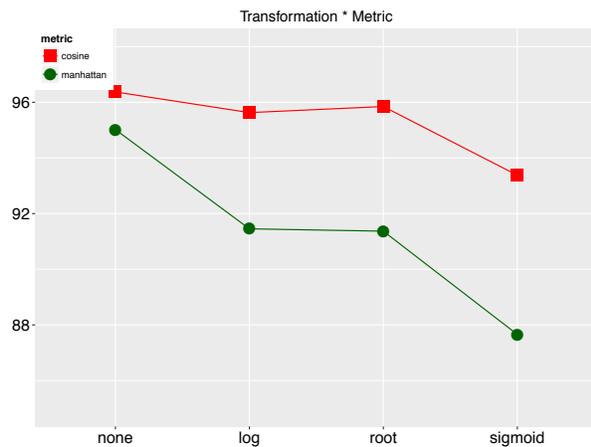


Figure 7.38: COH,typed,unreduced

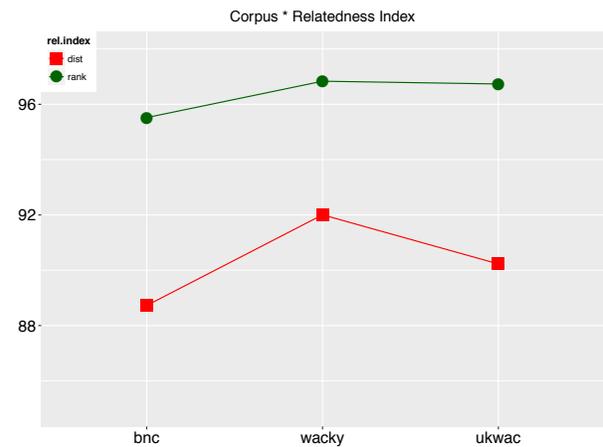


Figure 7.39: COH,typed,unreduced

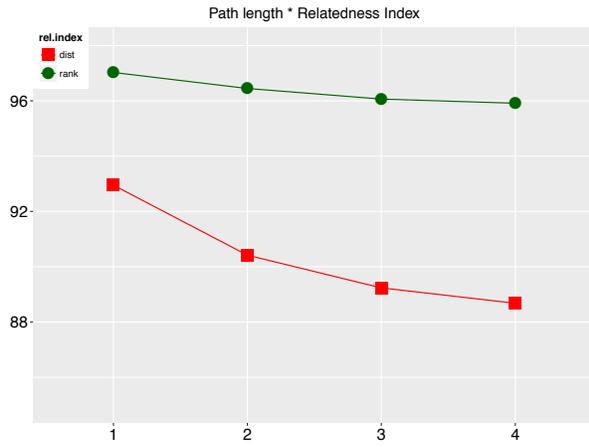


Figure 7.40: COH,typed,unreduced

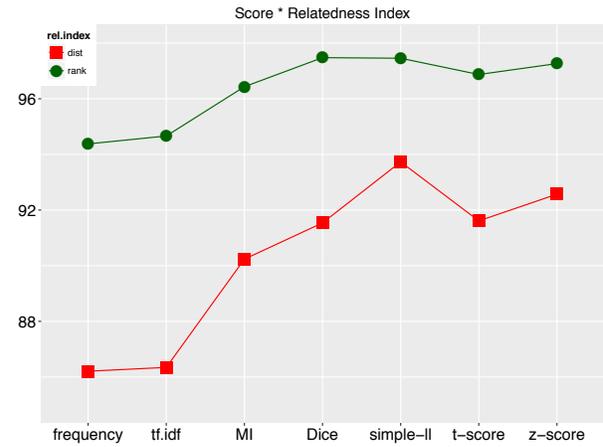


Figure 7.41: COH,typed,unreduced

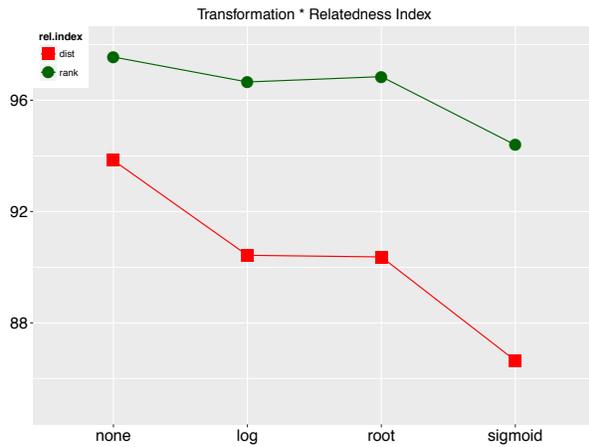


Figure 7.42: COH,typed,unreduced

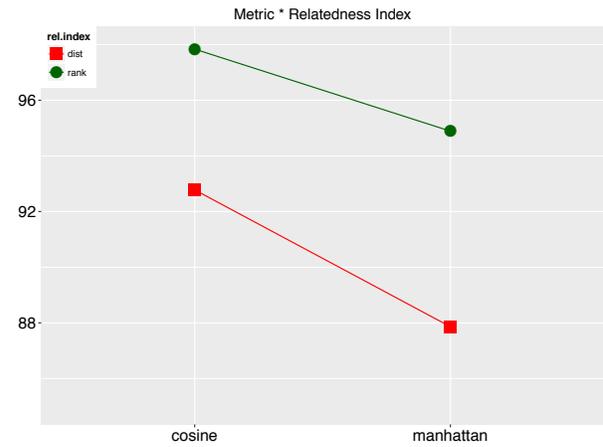


Figure 7.43: COH,typed,unreduced

### 7.10.5 Interactions: typed, reduced

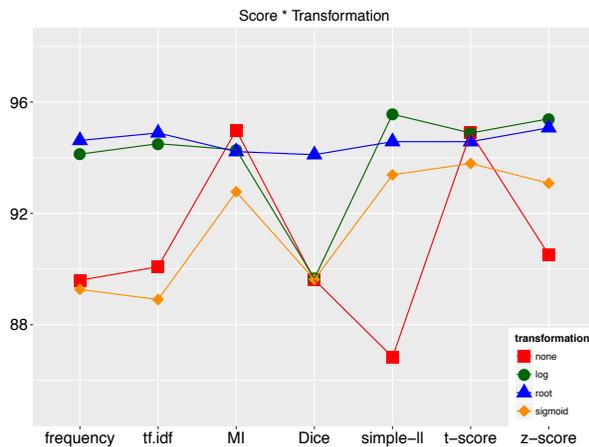


Figure 7.44: COH,typed,reduced

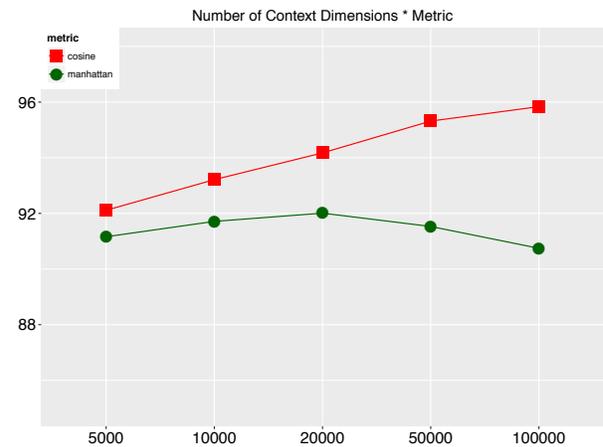


Figure 7.45: COH,typed,reduced

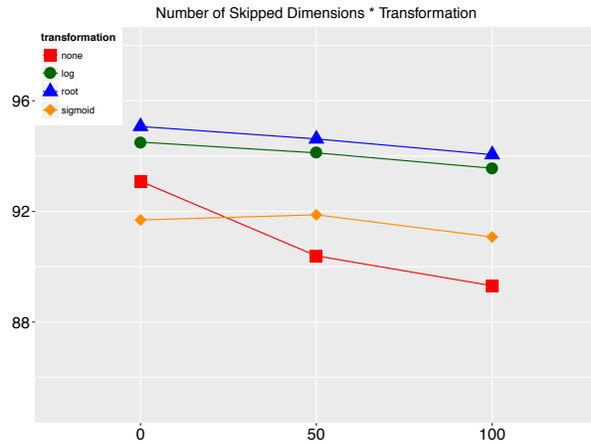


Figure 7.46: COH,typed, reduced

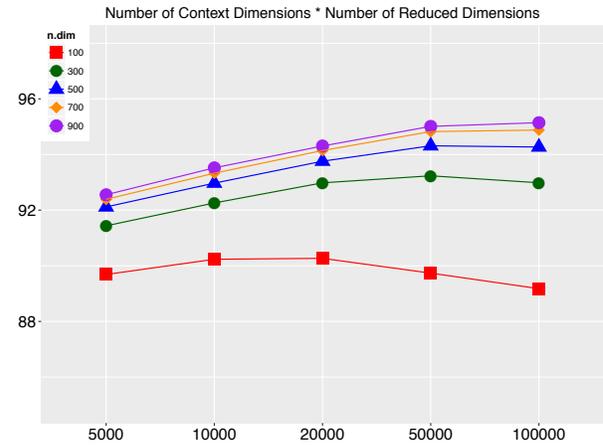


Figure 7.47: COH,typed, reduced

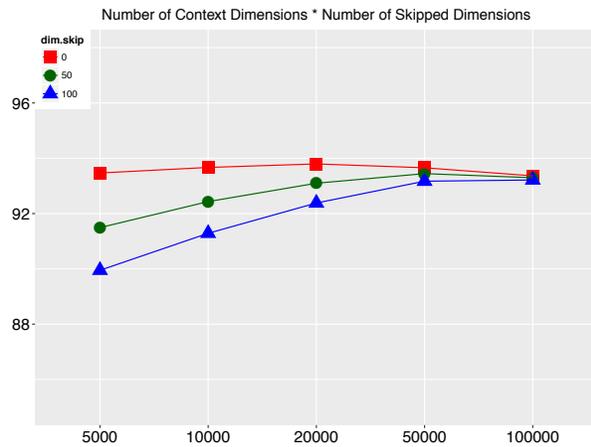


Figure 7.48: COH,typed, reduced

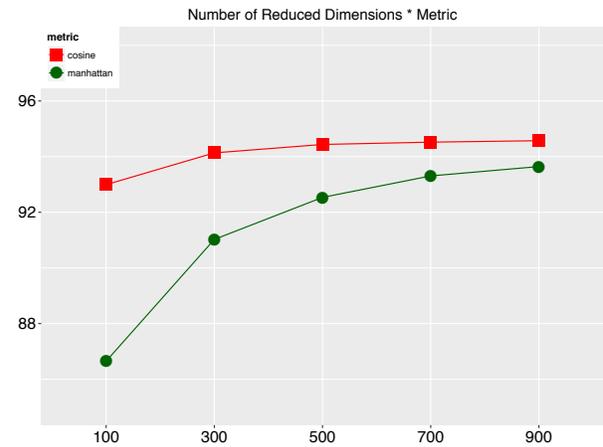


Figure 7.49: COH,typed, reduced

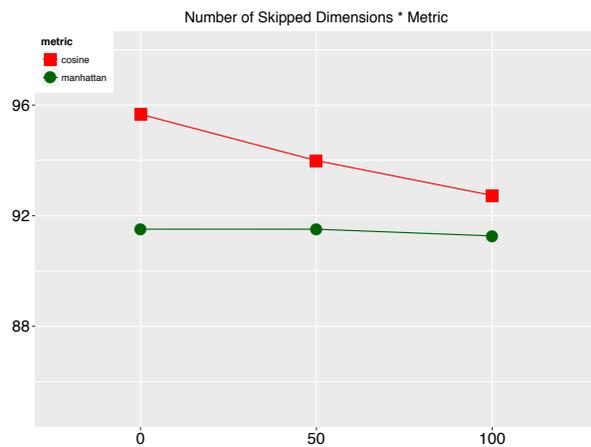


Figure 7.50: COH,typed, reduced

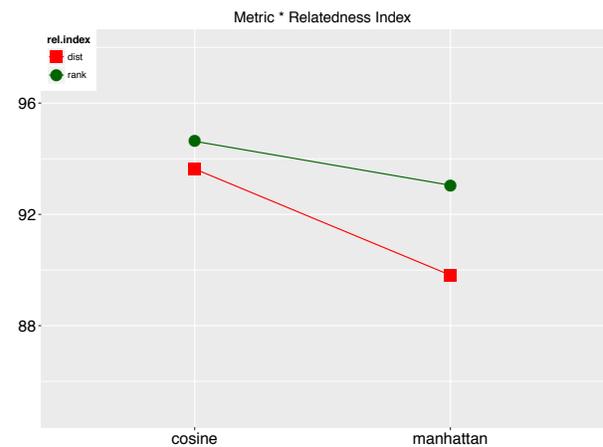


Figure 7.51: COH,typed, reduced

# 7.11 FPA

## 7.11.1 Main Effects

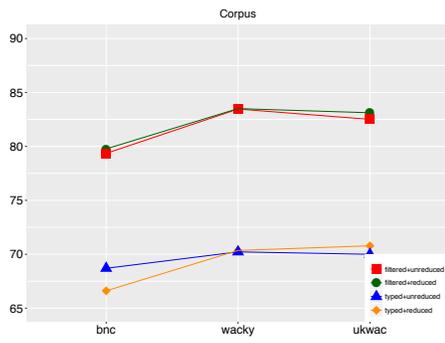


Figure 7.1

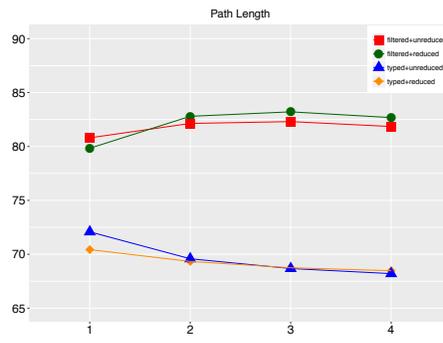


Figure 7.2

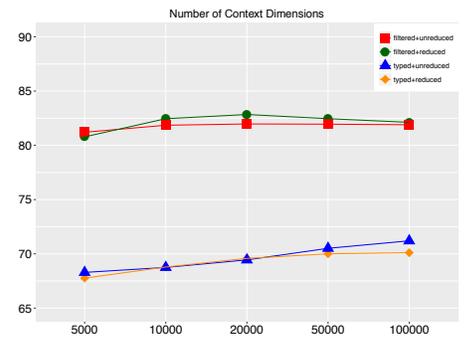


Figure 7.3

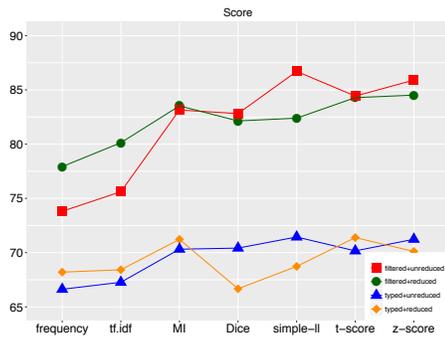


Figure 7.4

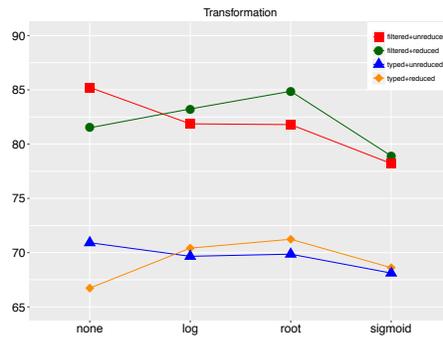


Figure 7.5

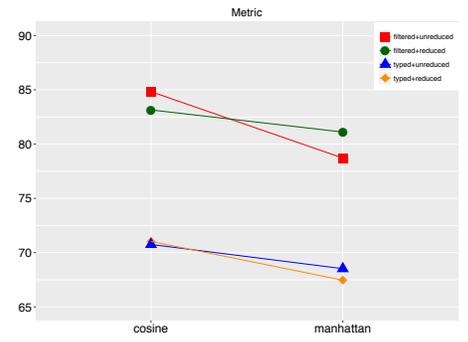


Figure 7.6

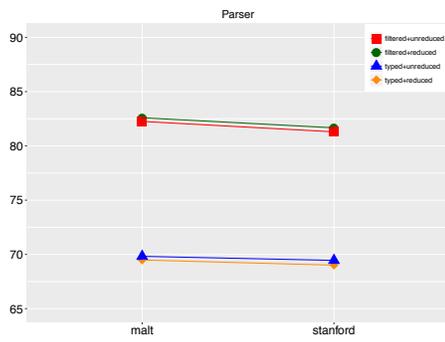


Figure 7.7

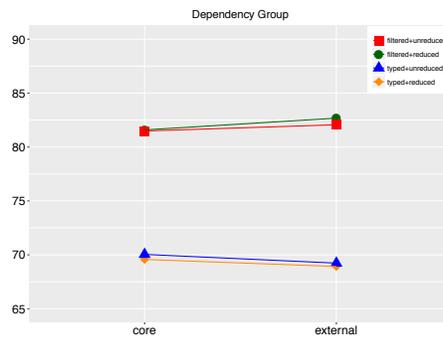


Figure 7.8

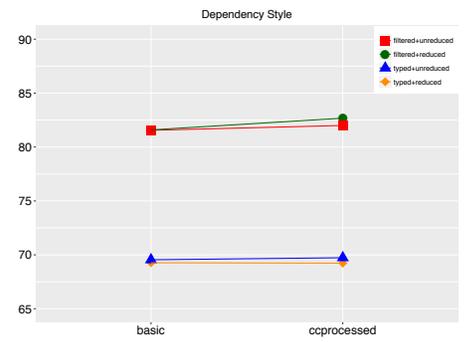


Figure 7.9

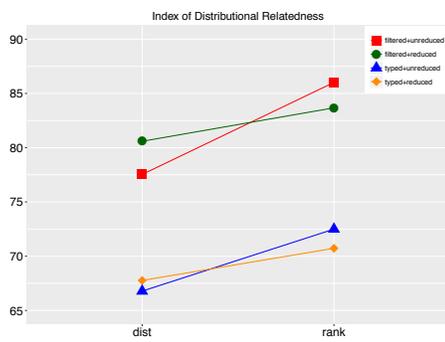


Figure 7.10

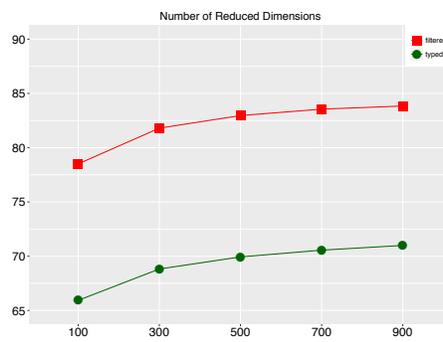


Figure 7.11

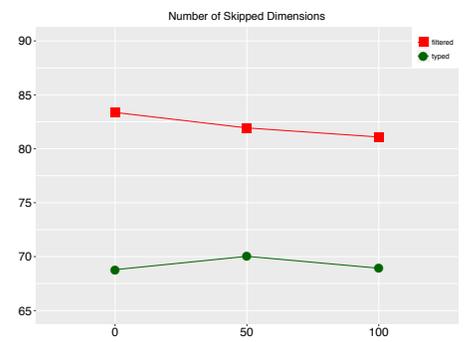


Figure 7.12

## 7.11.2 Interactions: filtered, unreduced

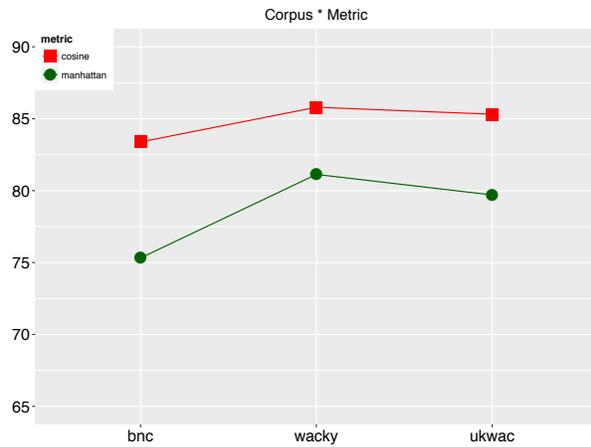


Figure 7.13: FPA,filtered,unreduced



Figure 7.14: FPA, filtered, unreduced

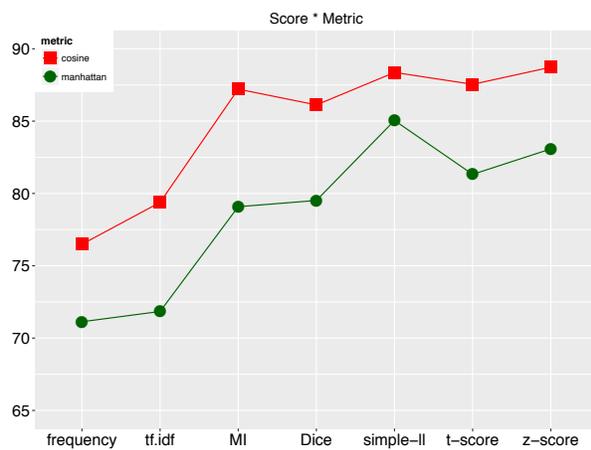


Figure 7.15: FPA,filtered,unreduced

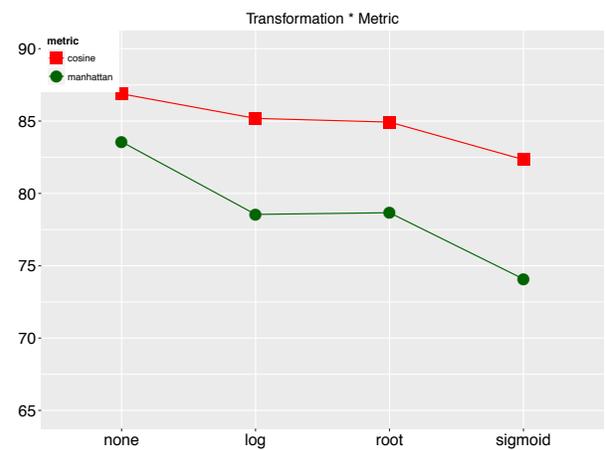


Figure 7.16: FPA, filtered, unreduced

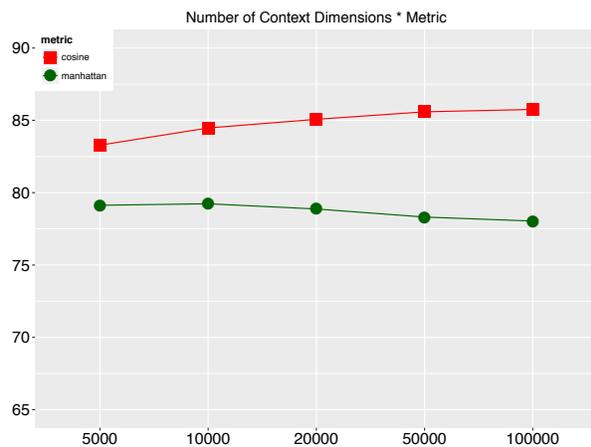


Figure 7.17: FPA,filtered,unreduced

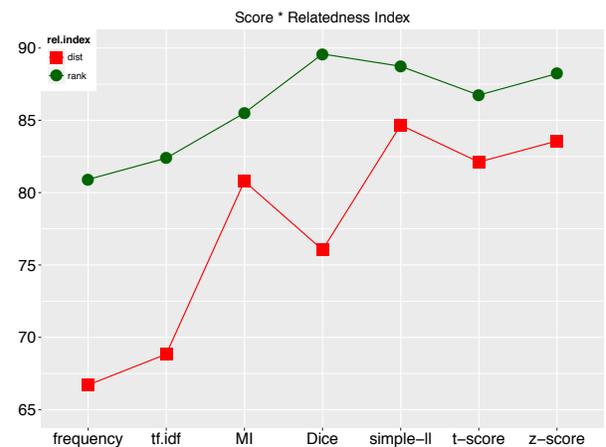


Figure 7.18: FPA, filtered, unreduced

### 7.11.3 Interactions: filtered, reduced

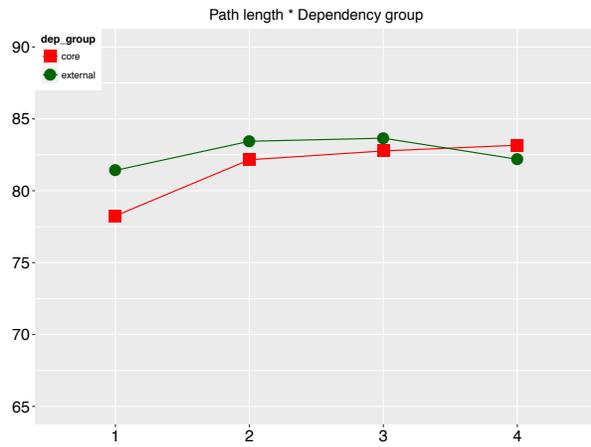


Figure 7.19: FPA,filtered,reduced

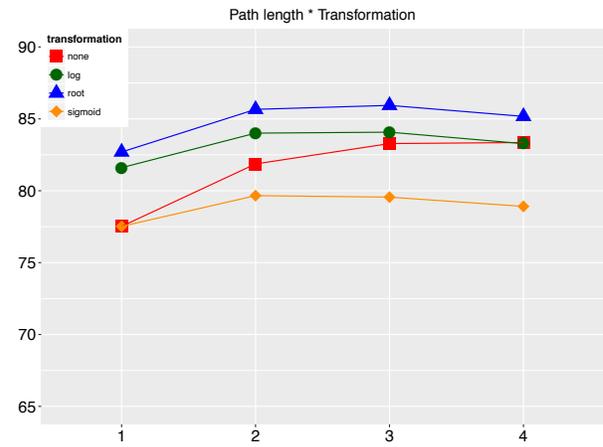


Figure 7.20: FPA,filtered,reduced

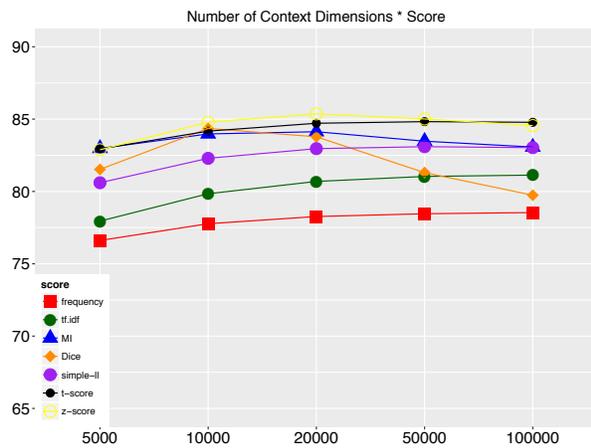


Figure 7.21: FPA,filtered,reduced

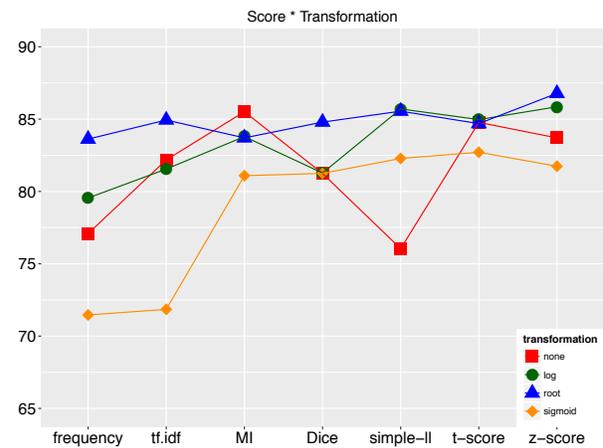


Figure 7.22: FPA,filtered,reduced

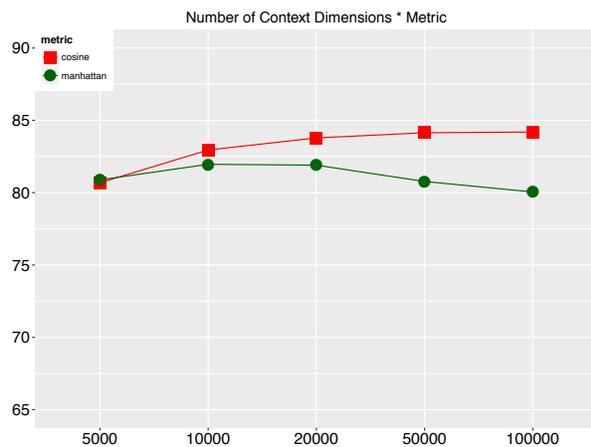


Figure 7.23: FPA,filtered,reduced

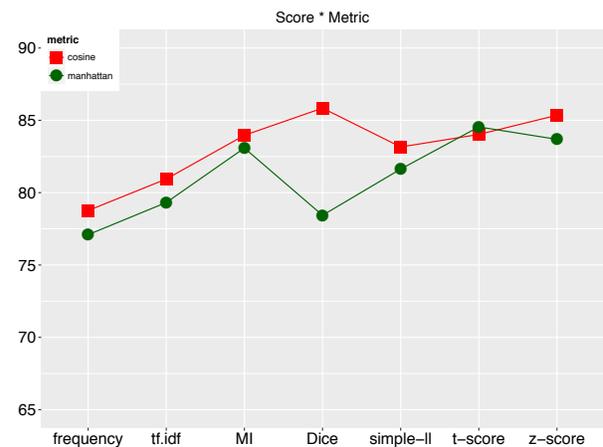


Figure 7.24: FPA,filtered,reduced

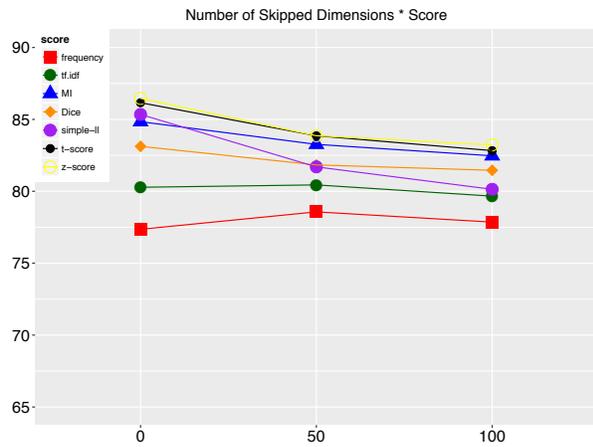


Figure 7.25: FPA,filtered,reduced

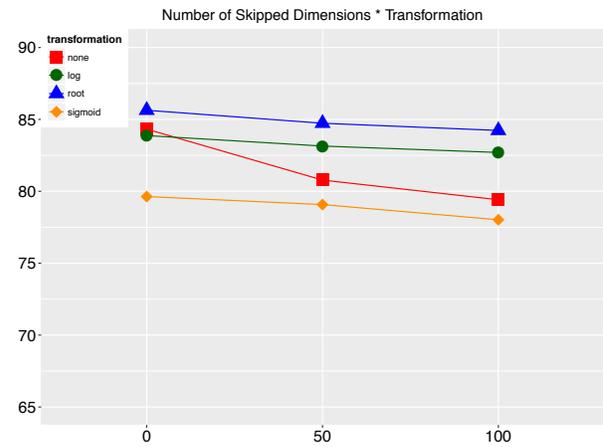


Figure 7.26: FPA,filtered,reduced

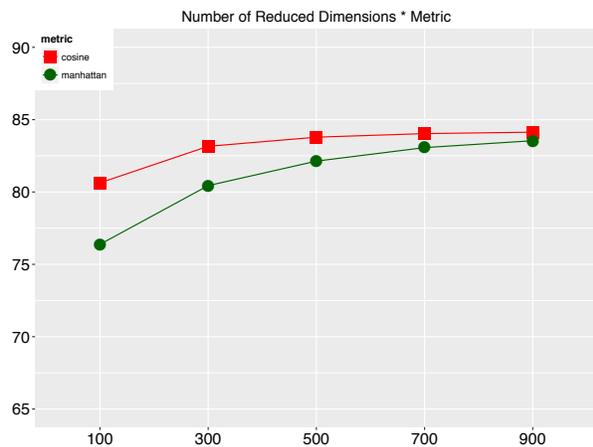


Figure 7.27: FPA,filtered,reduced

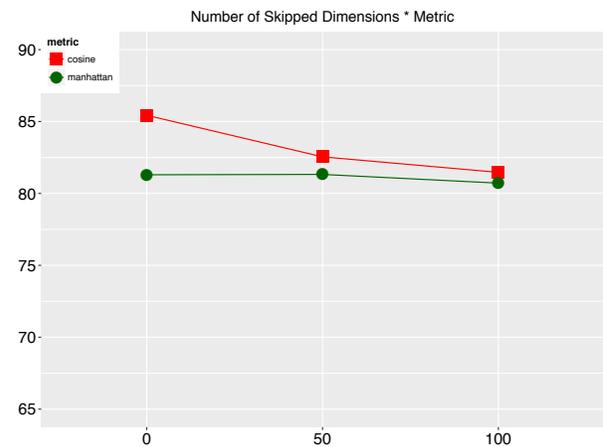


Figure 7.28: FPA,filtered,reduced

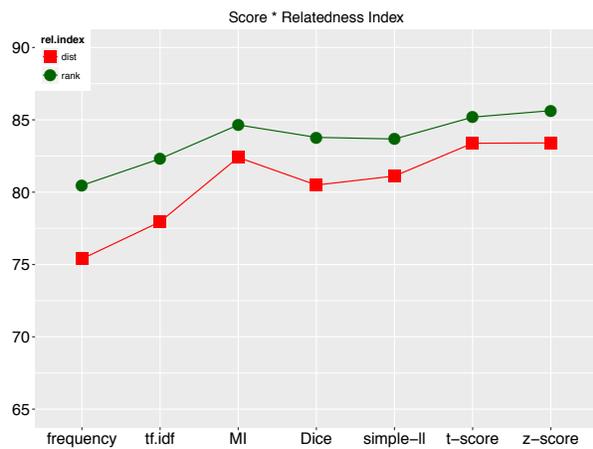


Figure 7.29: FPA,filtered,reduced

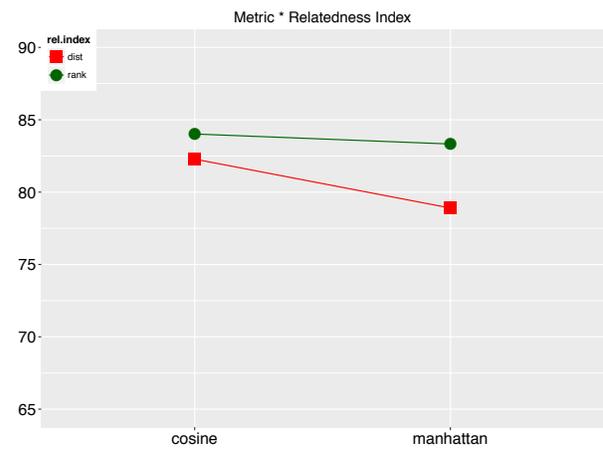


Figure 7.30: FPA,filtered,reduced

### 7.11.4 Interactions: typed, unreduced

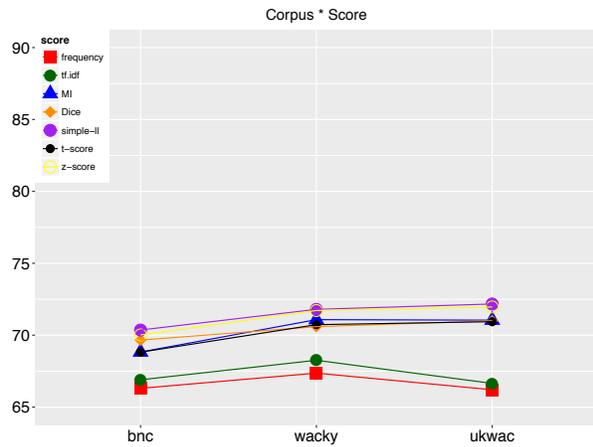


Figure 7.31: FPA,typed,unreduced

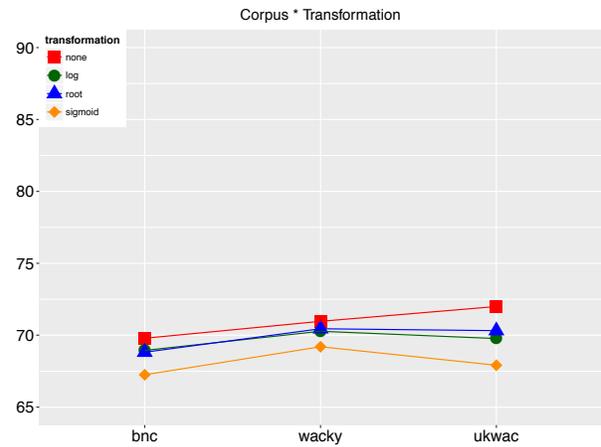


Figure 7.32: FPA,typed,unreduced

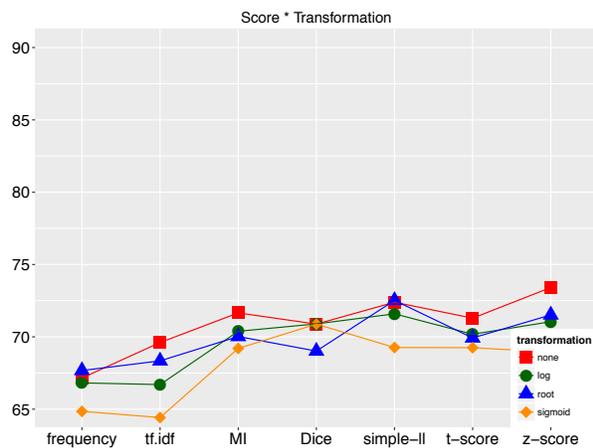


Figure 7.33: FPA,typed,unreduced

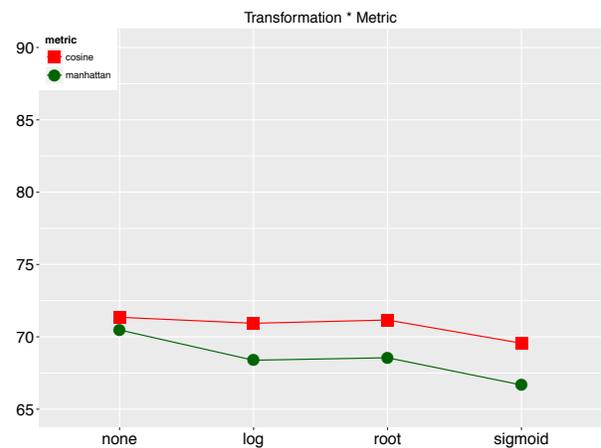


Figure 7.34: FPA,typed,unreduced

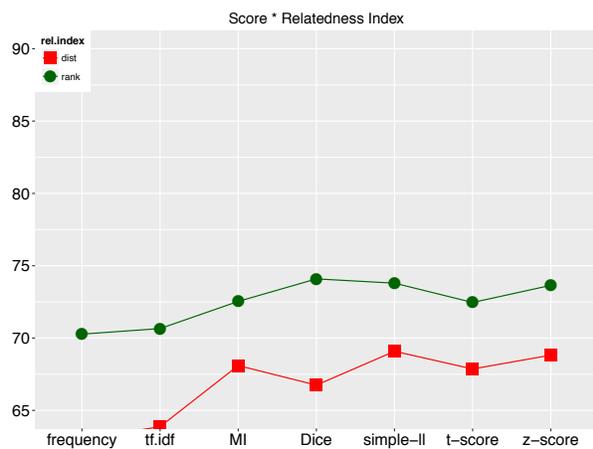


Figure 7.35: FPA,typed,unreduced

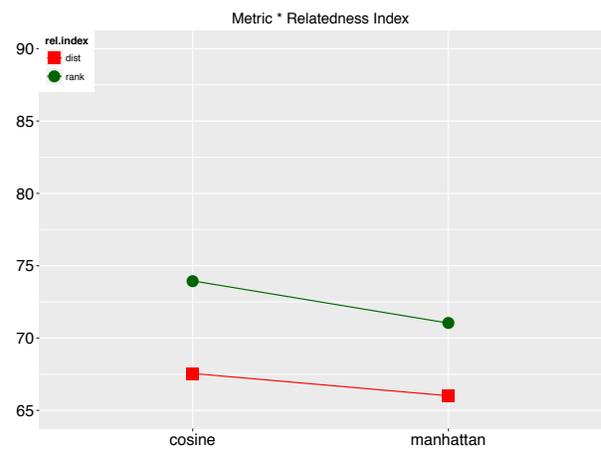


Figure 7.36: FPA,typed,unreduced

### 7.11.5 Interactions: typed, reduced

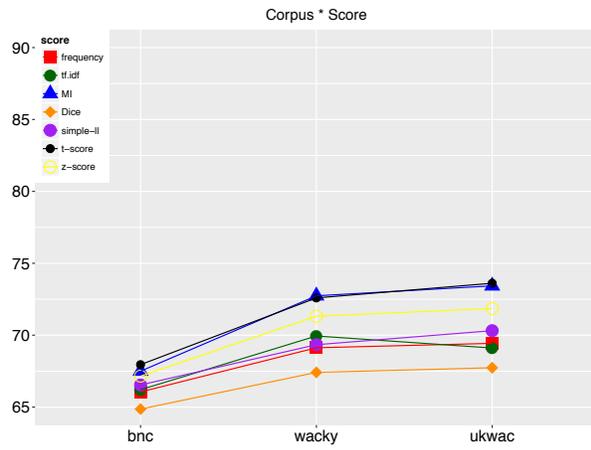


Figure 7.37: FPA,typed,reduced

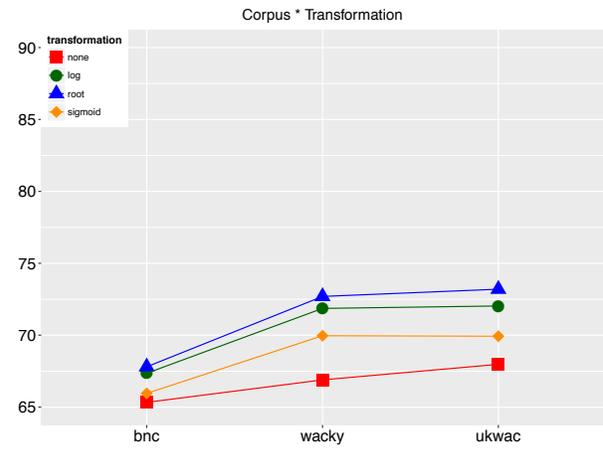


Figure 7.38: FPA,typed,reduced

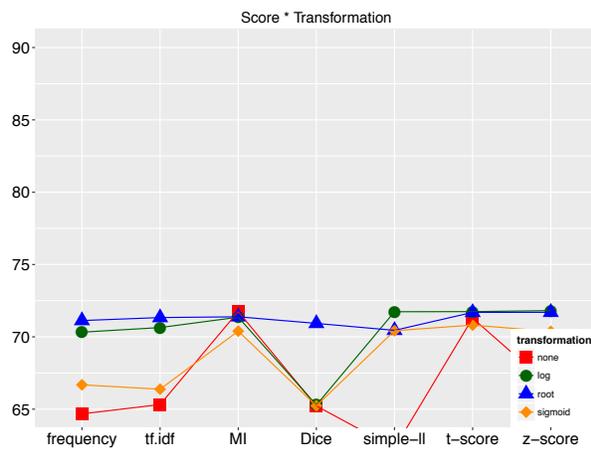


Figure 7.39: FPA,typed,reduced

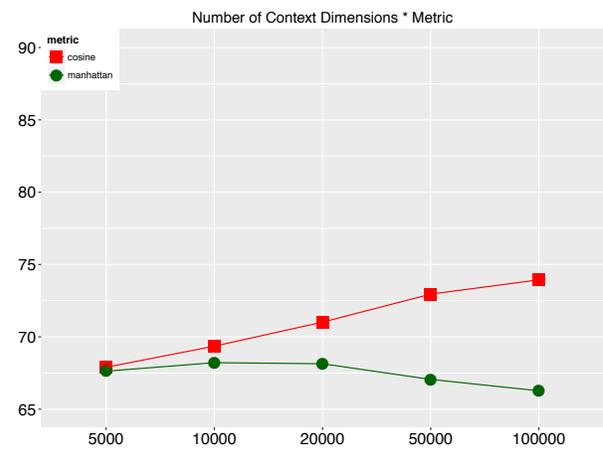


Figure 7.40: FPA,typed,reduced

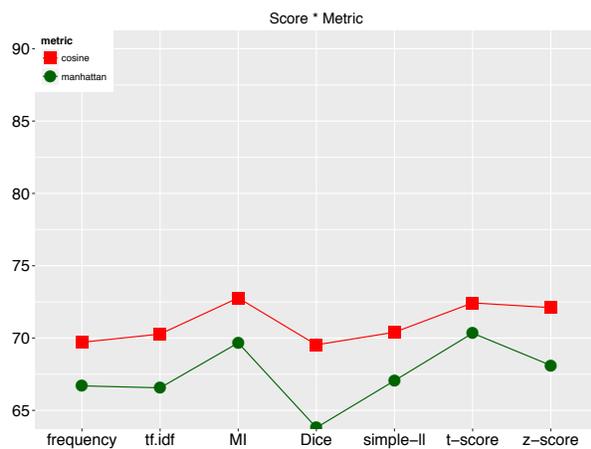


Figure 7.41: FPA,typed,reduced

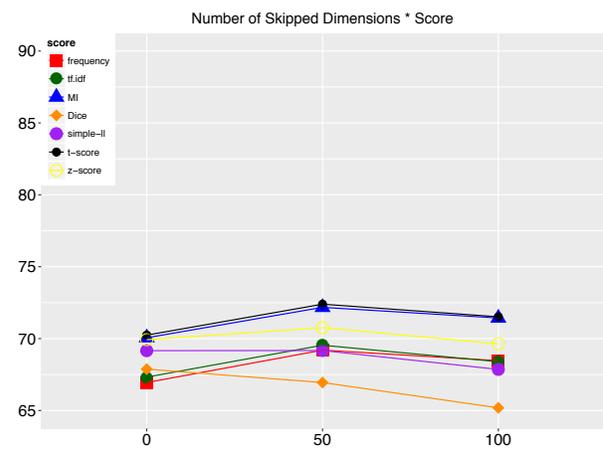


Figure 7.42: FPA,typed,reduced

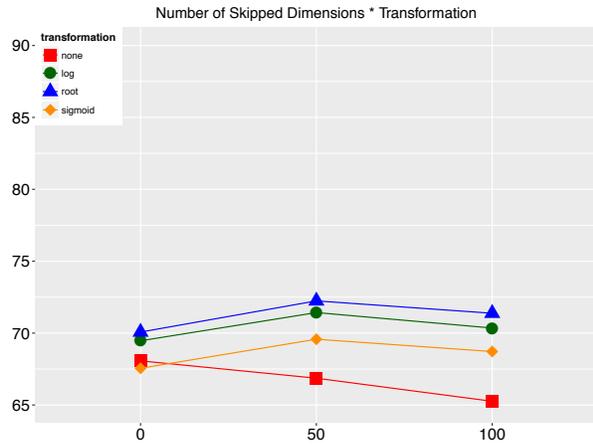


Figure 7.43: FPA,typed,reduced

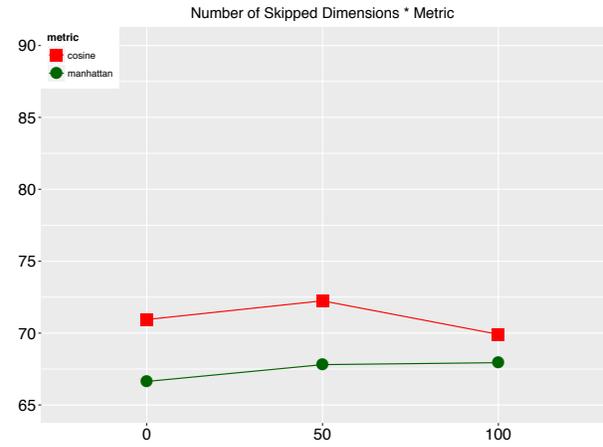


Figure 7.44: FPA,typed,reduced

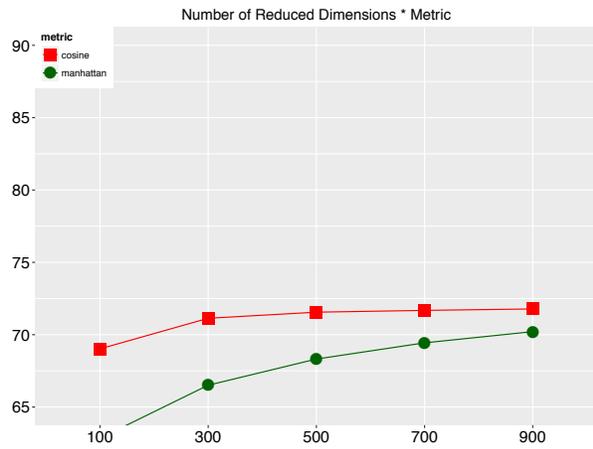


Figure 7.45: FPA,typed,reduced

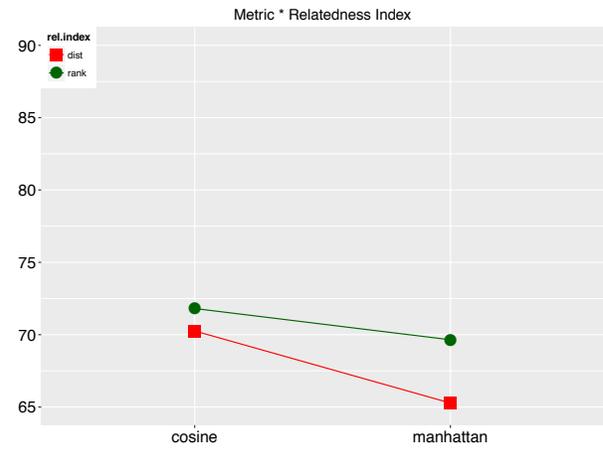


Figure 7.46: FPA,typed,reduced

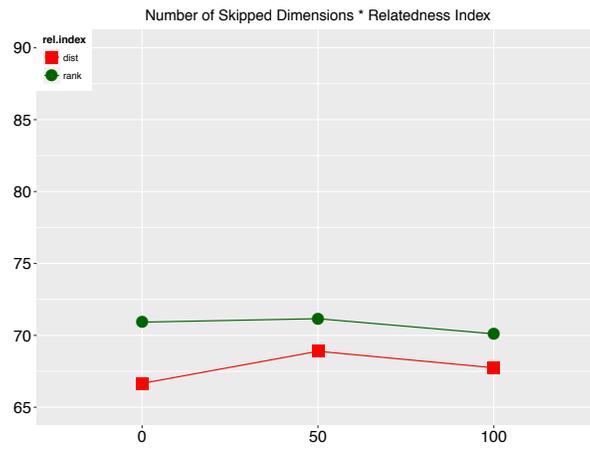


Figure 7.47: FPA,typed,reduced

## 7.12 BPA

### 7.12.1 Main Effects

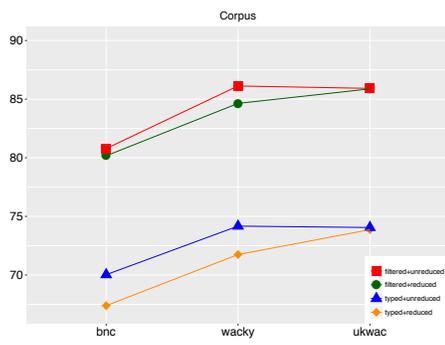


Figure 7.1

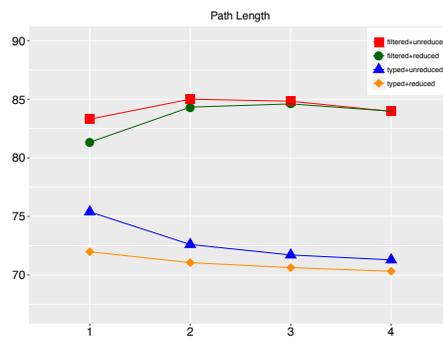


Figure 7.2

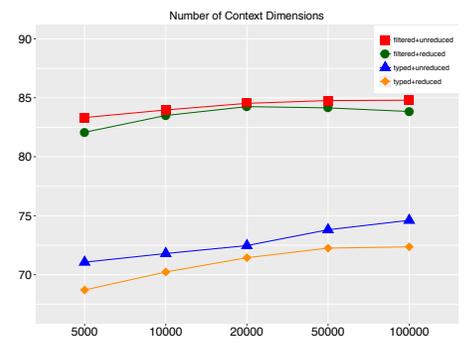


Figure 7.3

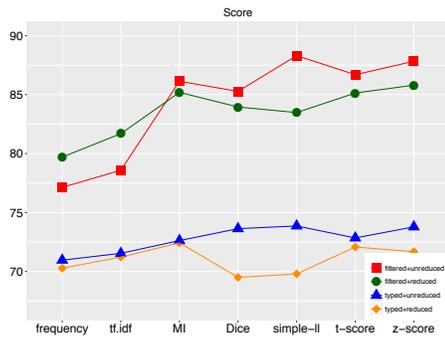


Figure 7.4

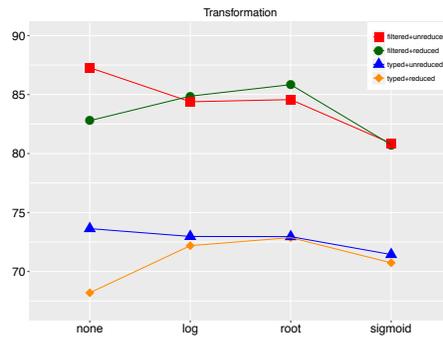


Figure 7.5

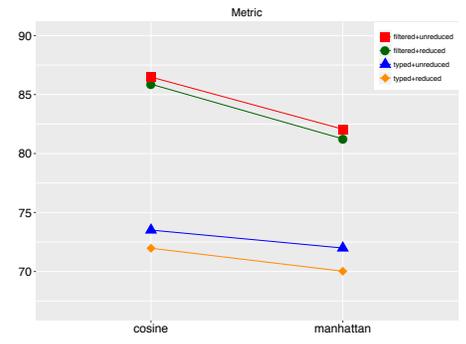


Figure 7.6

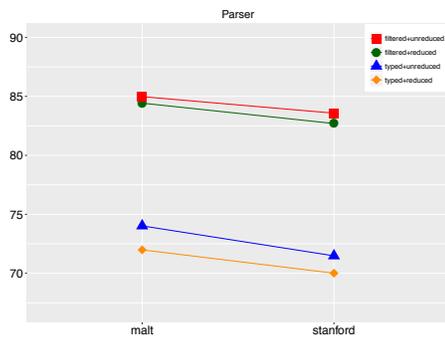


Figure 7.7

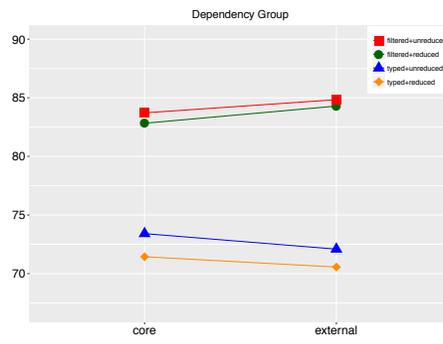


Figure 7.8

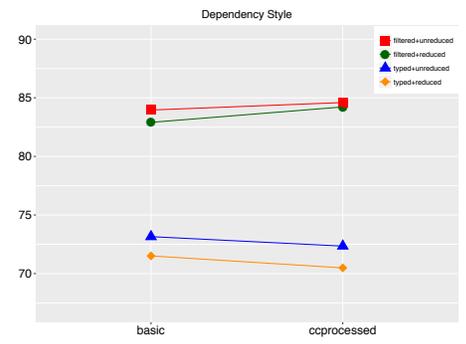


Figure 7.9

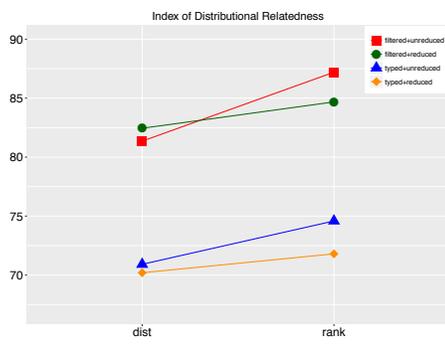


Figure 7.10

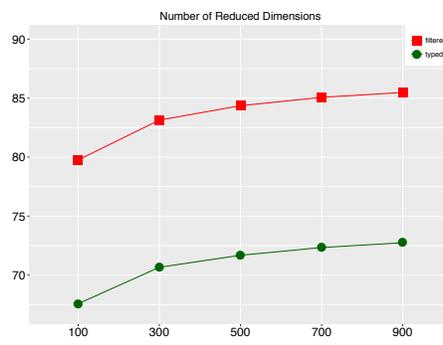


Figure 7.11

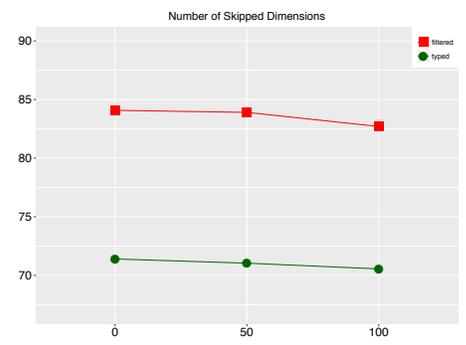


Figure 7.12

## 7.12.2 Interactions: filtered, unreduced

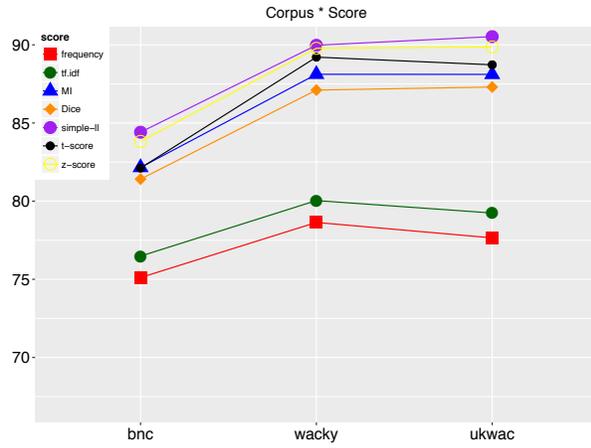


Figure 7.13: BPA, filtered, unreduced

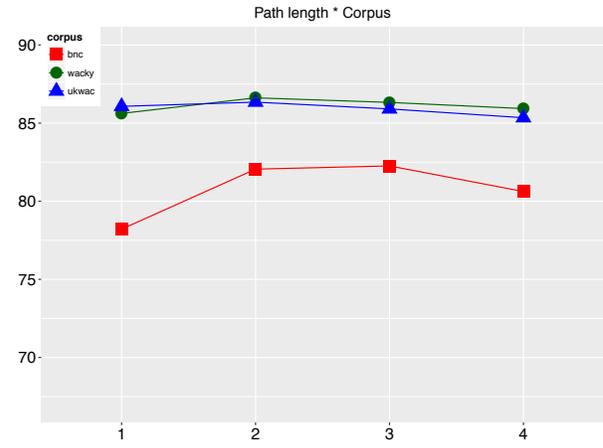


Figure 7.14: BPA, filtered, unreduced

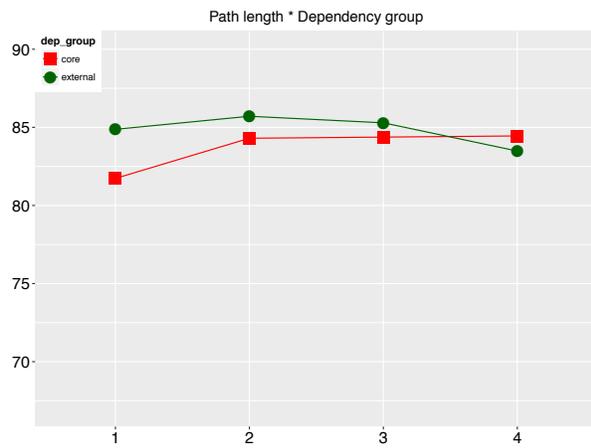


Figure 7.15: BPA, filtered, unreduced

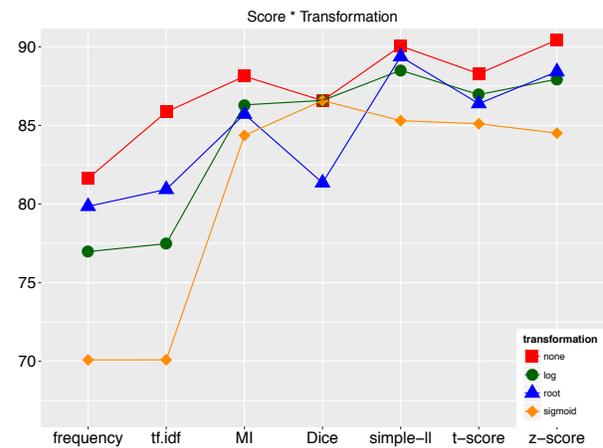


Figure 7.16: BPA, filtered, unreduced

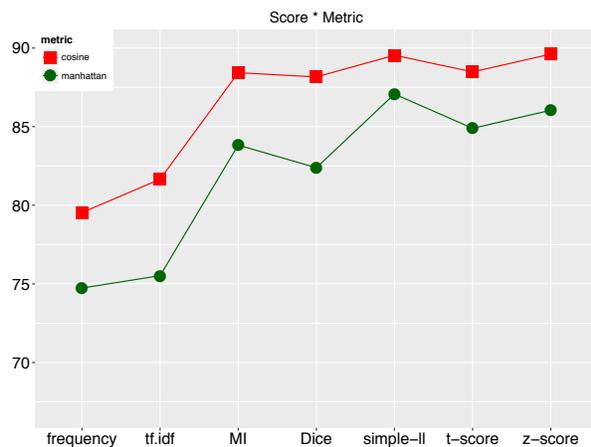


Figure 7.17: BPA, filtered, unreduced

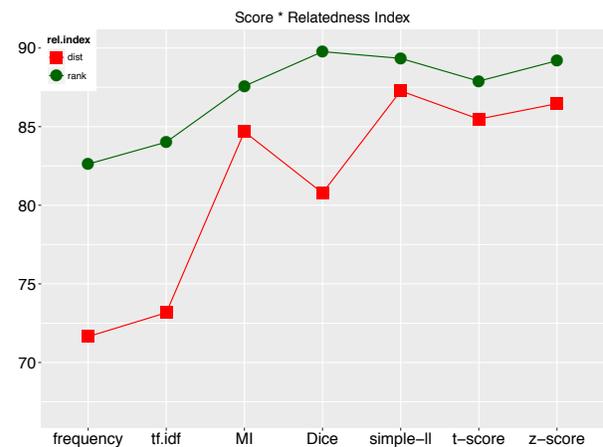


Figure 7.18: BPA, filtered, unreduced

### 7.12.3 Interactions: filtered, reduced

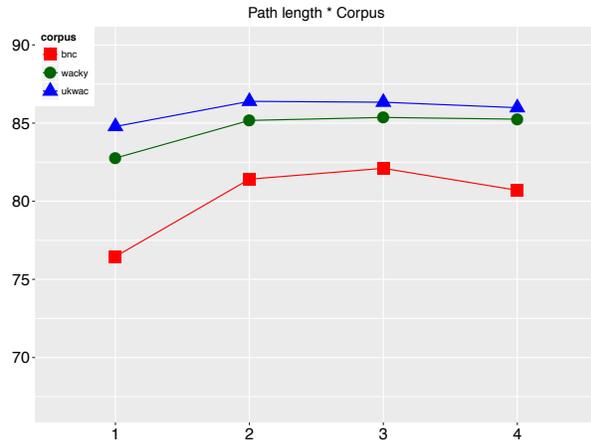


Figure 7.19: BPA,filtered,reduced

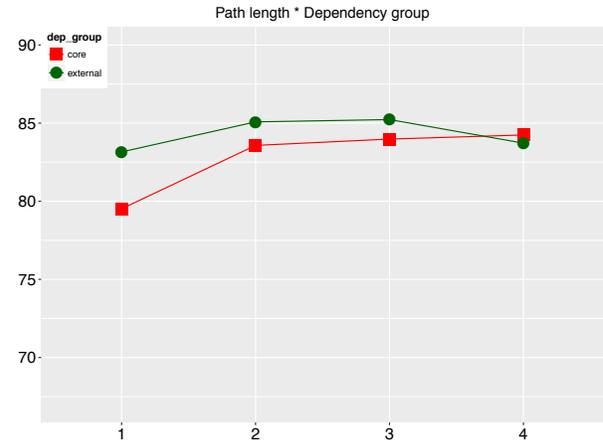


Figure 7.20: BPA,filtered,reduced

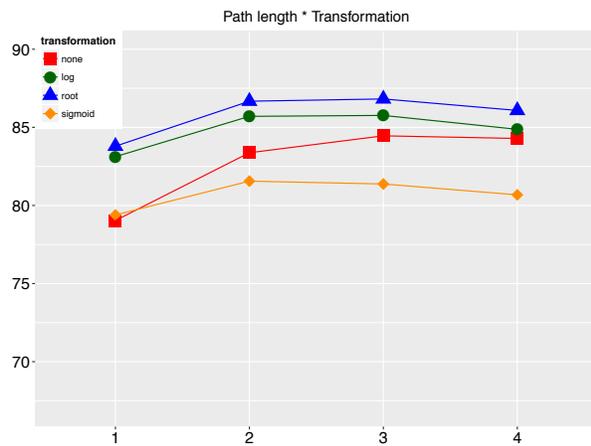


Figure 7.21: BPA,filtered,reduced

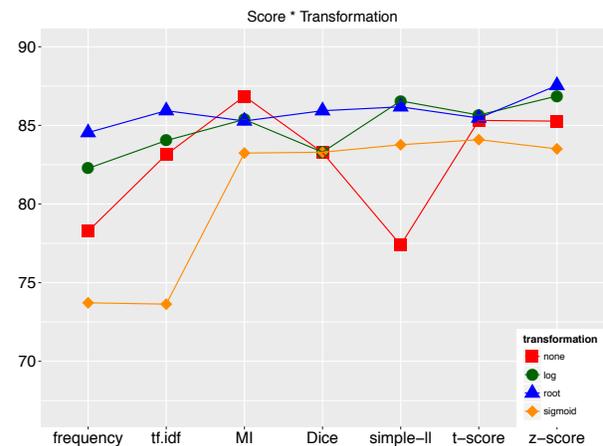


Figure 7.22: BPA,filtered,reduced

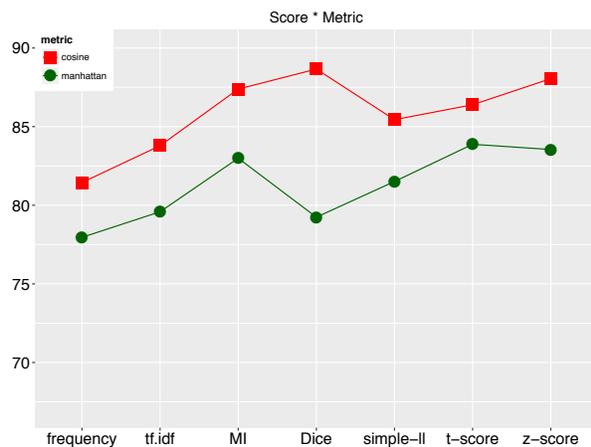


Figure 7.23: BPA,filtered,reduced

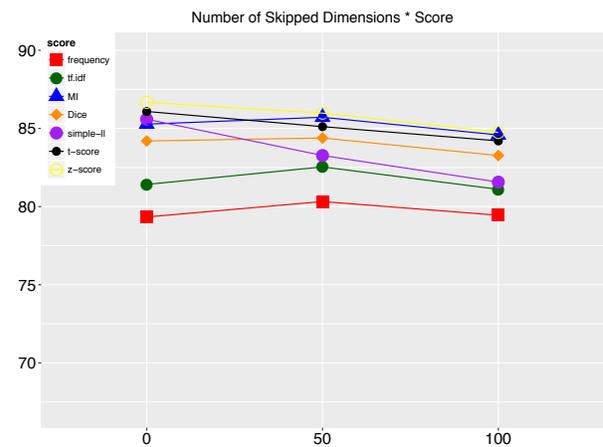


Figure 7.24: BPA,filtered,reduced

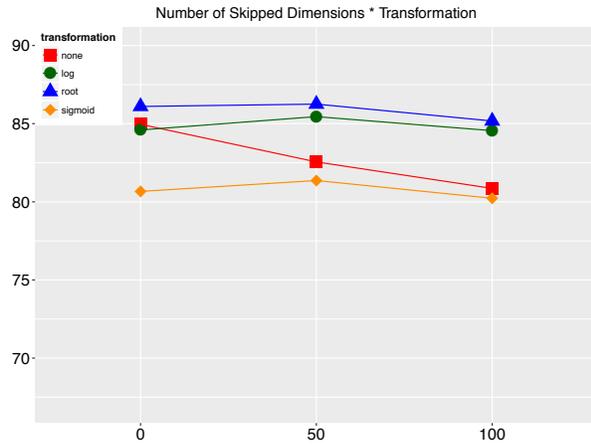


Figure 7.25: BPA,filtered,reduced

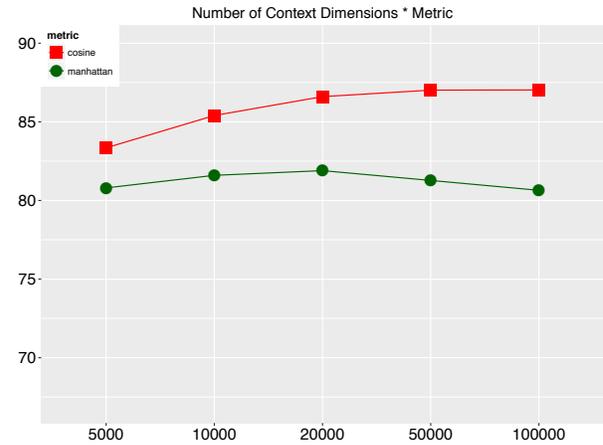


Figure 7.26: BPA,filtered,reduced

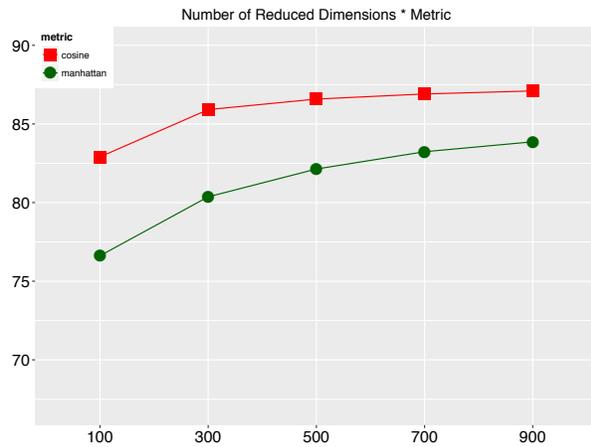


Figure 7.27: BPA,filtered,reduced

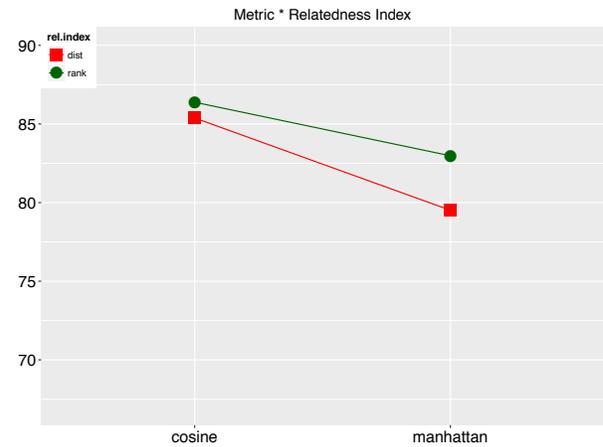


Figure 7.28: BPA,filtered,reduced

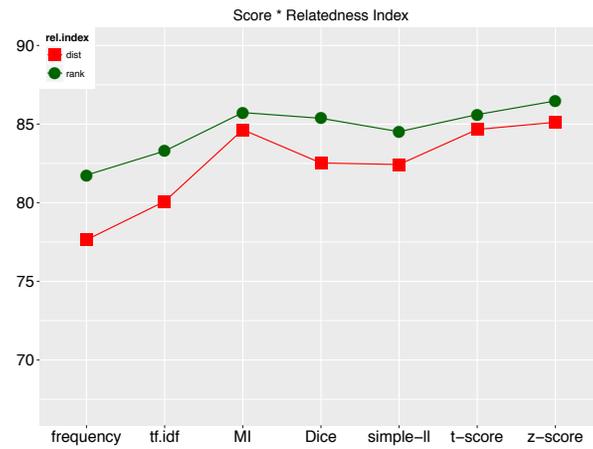


Figure 7.29: BPA,filtered,reduced

## 7.12.4 Interactions: typed, unreduced

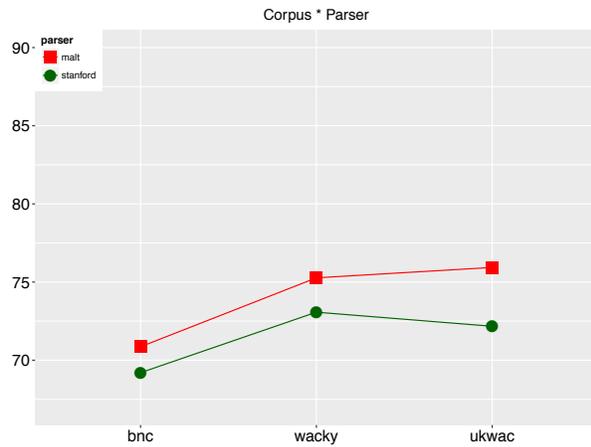


Figure 7.30: BPA,typed,unreduced

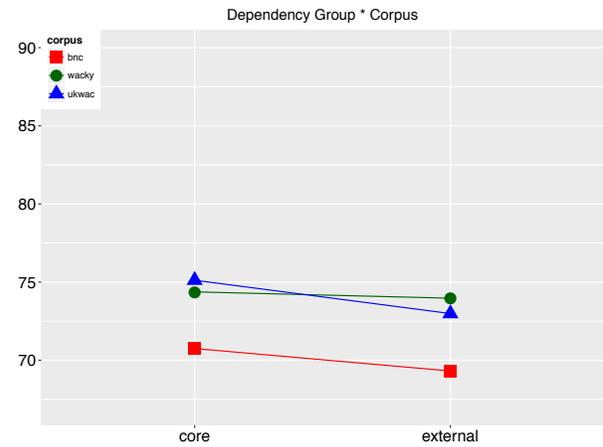


Figure 7.31: BPA,typed,unreduced

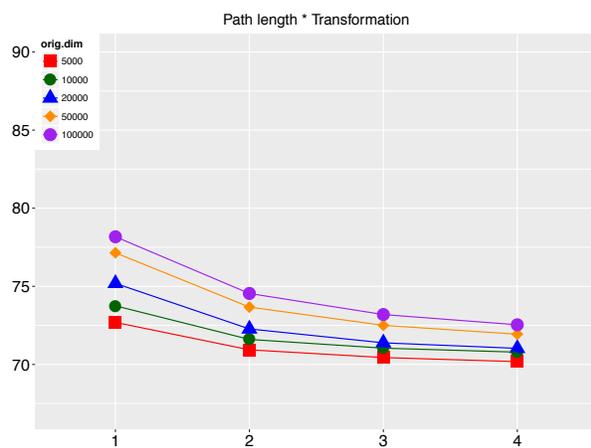


Figure 7.32: BPA,typed,unreduced

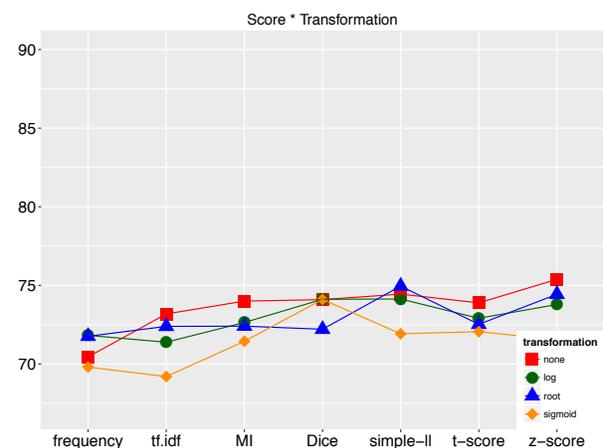


Figure 7.33: BPA,typed,unreduced

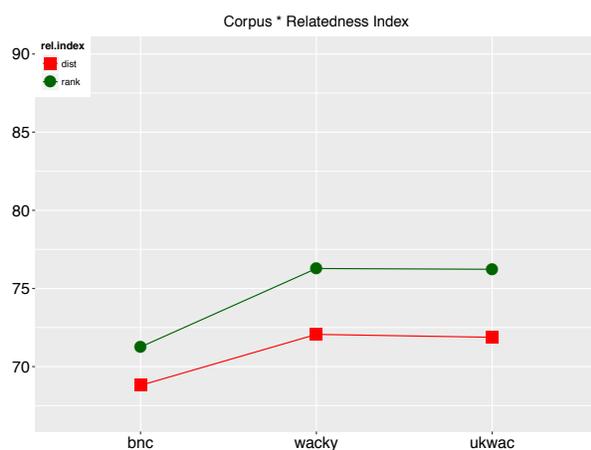


Figure 7.34: BPA,typed,unreduced

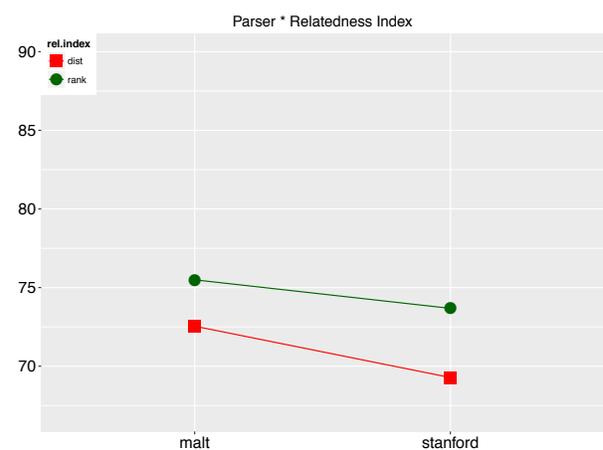


Figure 7.35: BPA,typed,unreduced

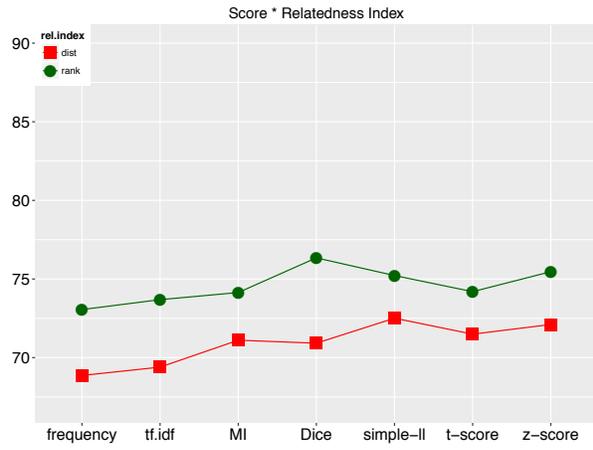


Figure 7.36: BPA,typed,unreduced

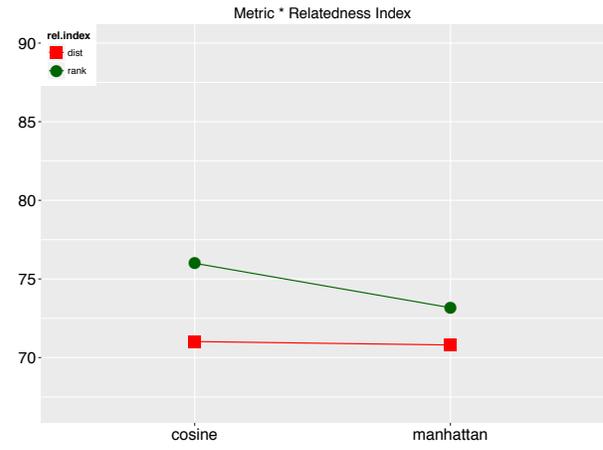


Figure 7.37: BPA,typed,unreduced

### 7.12.5 Interactions: typed, reduced

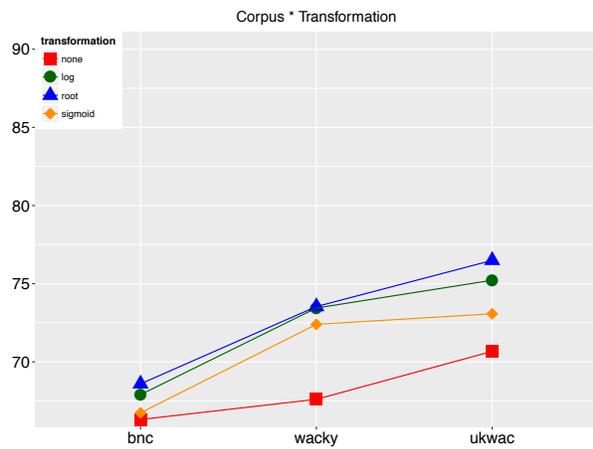


Figure 7.38: BPA,typed,reduced

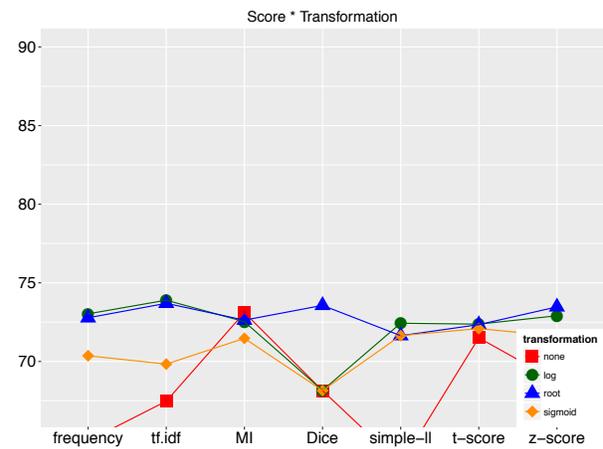


Figure 7.39: BPA,typed,reduced

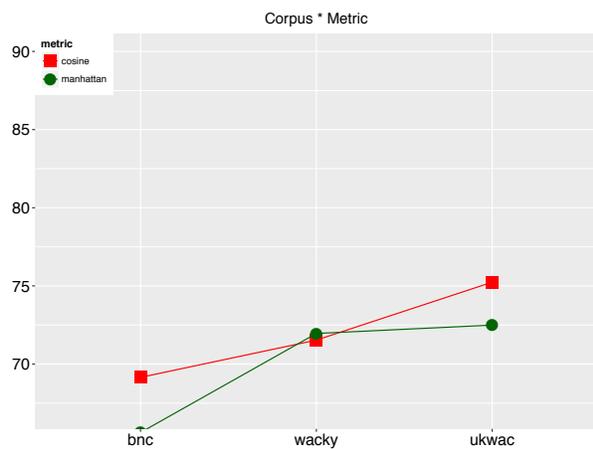


Figure 7.40: BPA,typed,reduced

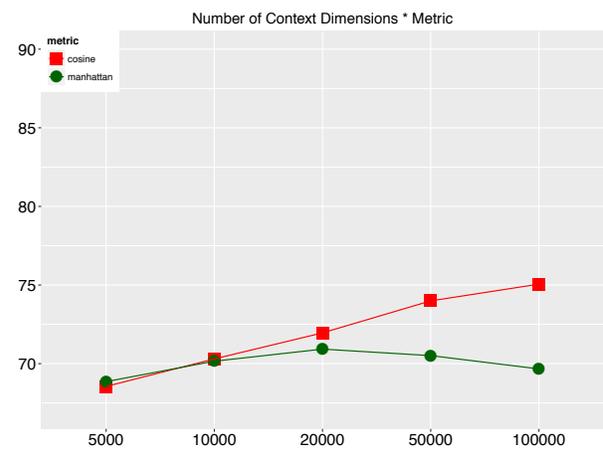


Figure 7.41: BPA,typed,reduced

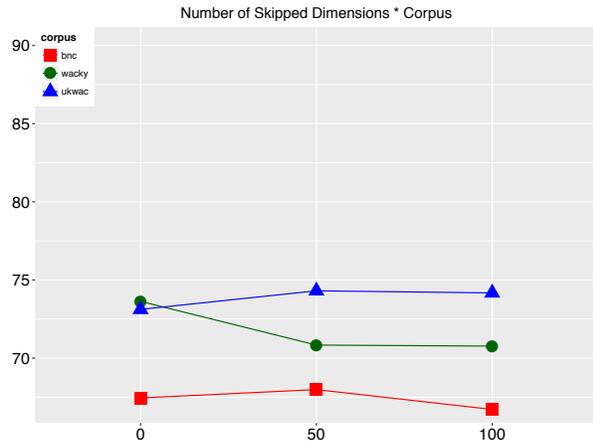


Figure 7.42: BPA,typed, reduced

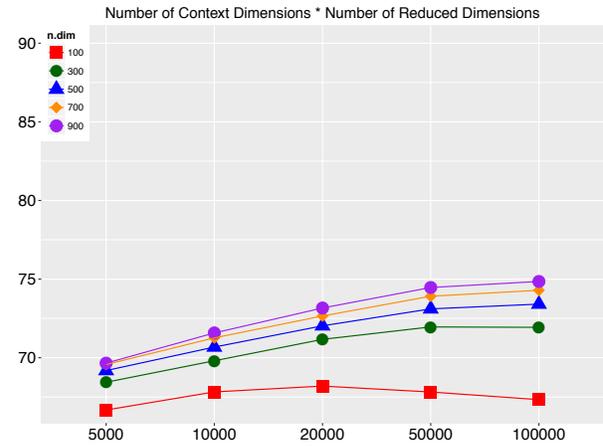


Figure 7.43: BPA,typed, reduced

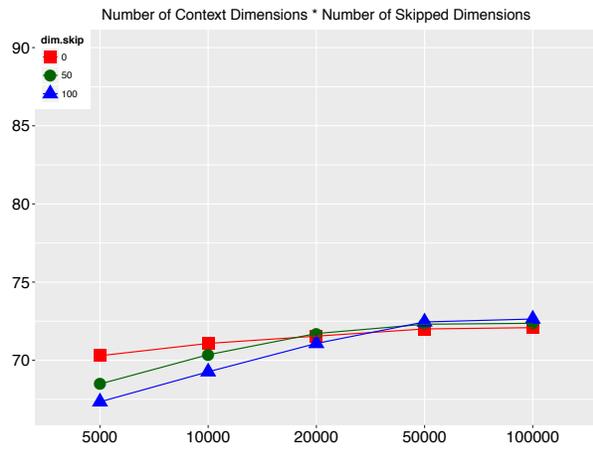


Figure 7.44: BPA,typed, reduced

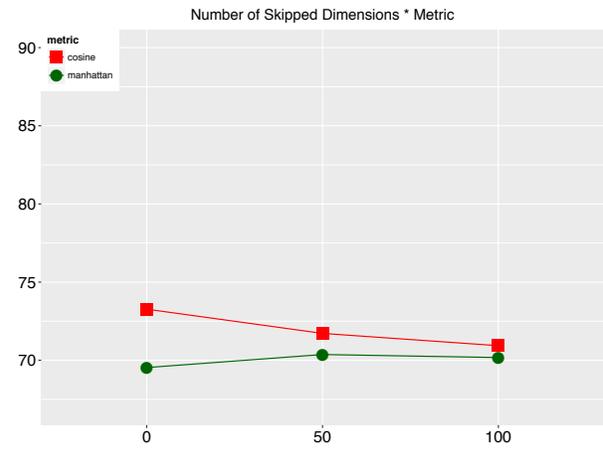


Figure 7.45: BPA,typed, reduced

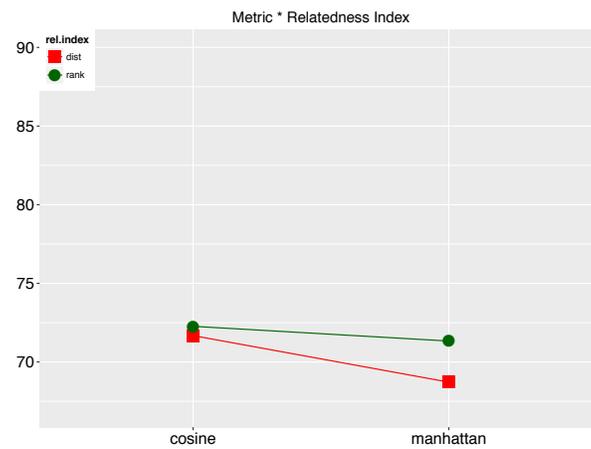


Figure 7.46: BPA,typed, reduced

## 7.13 GEK

### 7.13.1 Main Effects

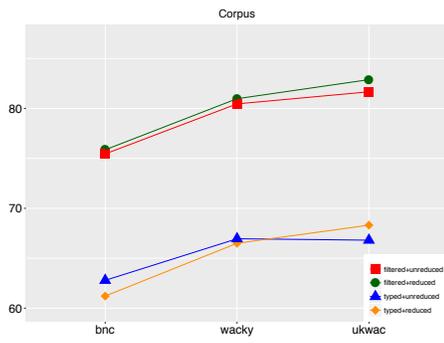


Figure 7.1

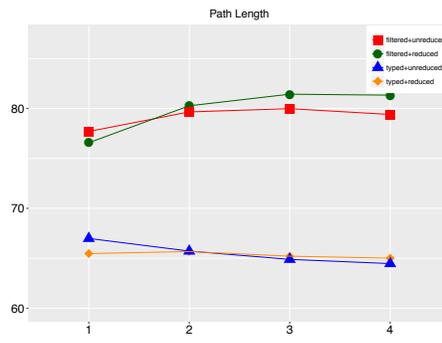


Figure 7.2

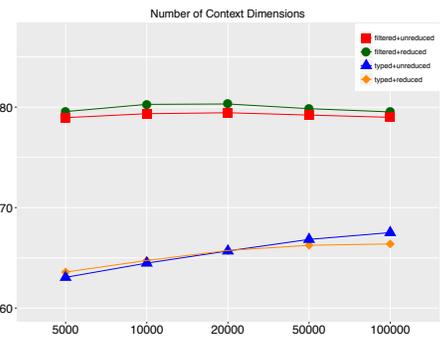


Figure 7.3

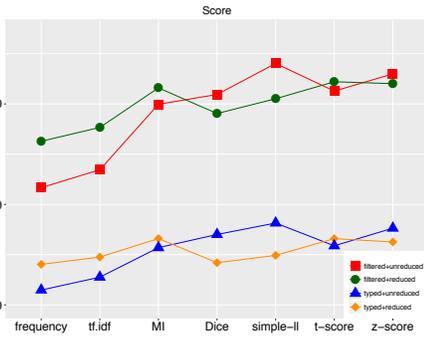


Figure 7.4

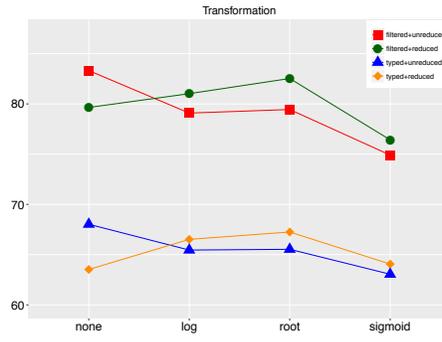


Figure 7.5

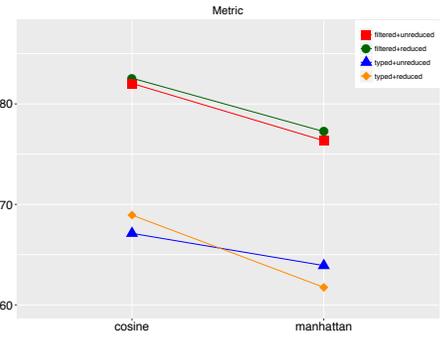


Figure 7.6

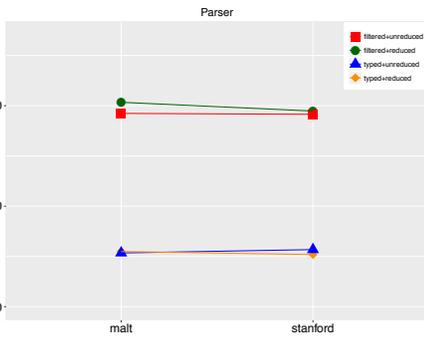


Figure 7.7

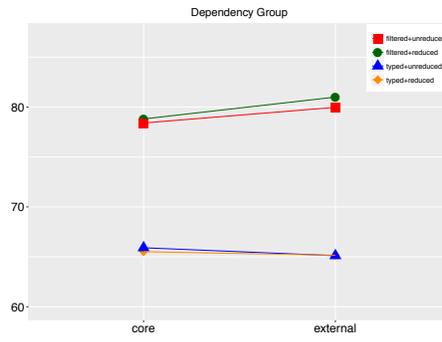


Figure 7.8

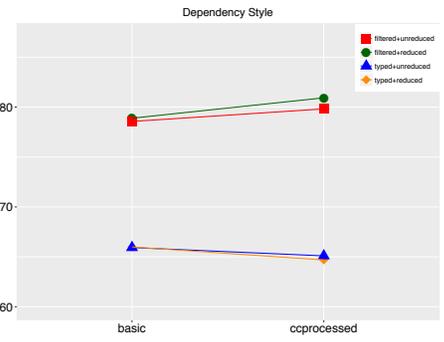


Figure 7.9

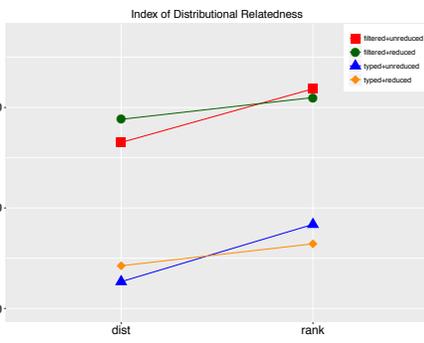


Figure 7.10

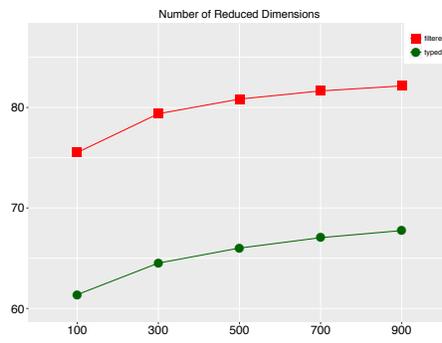


Figure 7.11

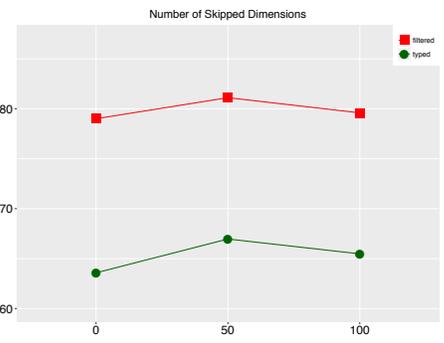


Figure 7.12

### 7.13.2 Interactions: filtered, unreduced

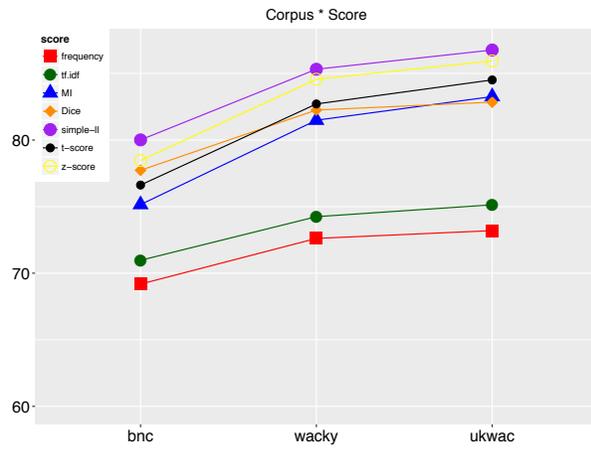


Figure 7.13: GEK, filtered, unreduced

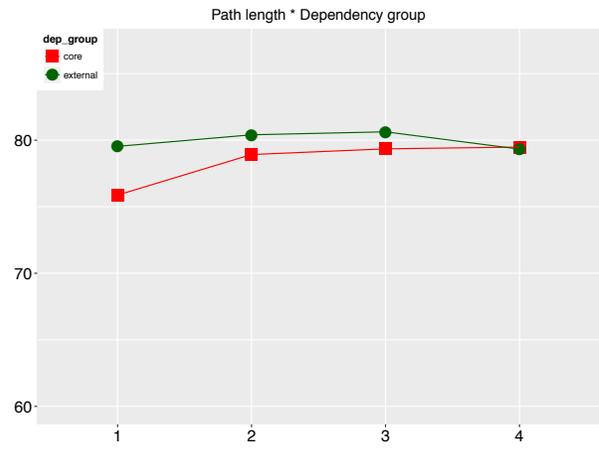


Figure 7.14: GEK, filtered, unreduced

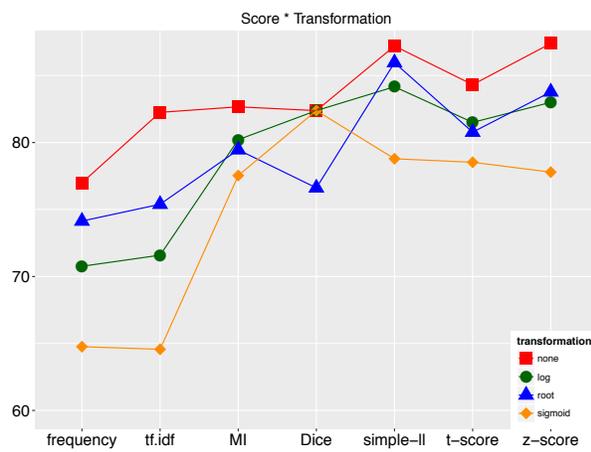


Figure 7.15: GEK, filtered, unreduced

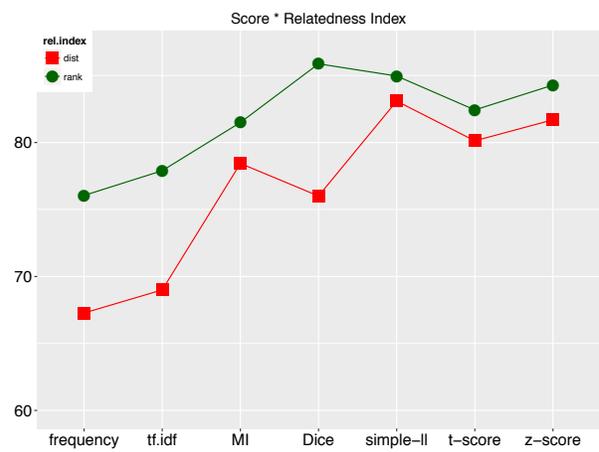


Figure 7.16: GEK, filtered, unreduced

### 7.13.3 Interactions: filtered, reduced

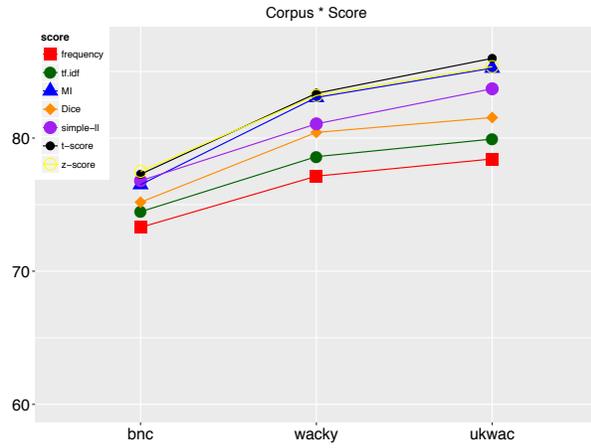


Figure 7.17: GEK,filtered,reduced

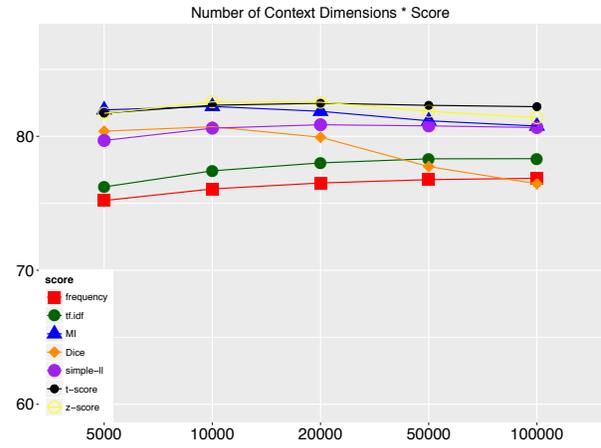


Figure 7.18: GEK,filtered,reduced

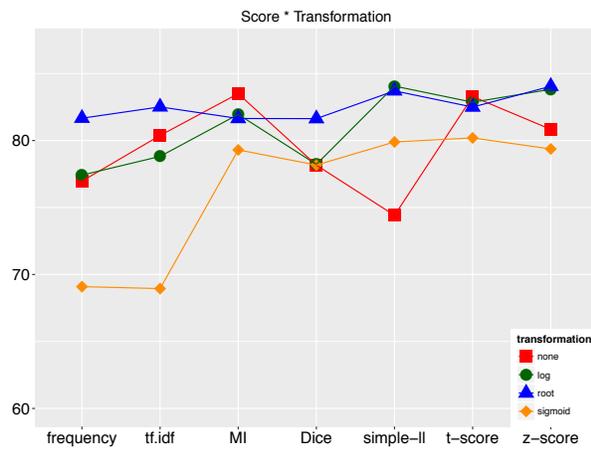


Figure 7.19: GEK,filtered,reduced

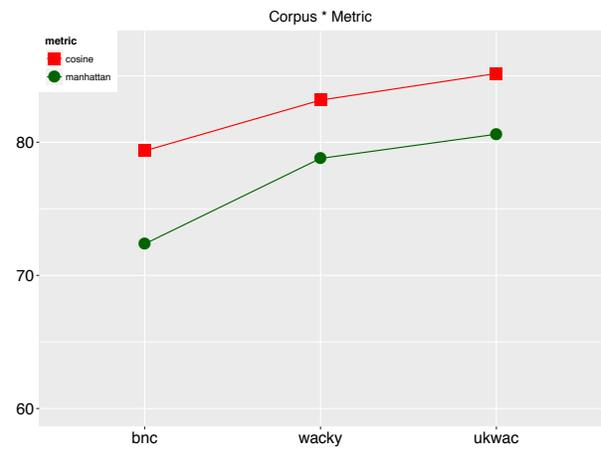


Figure 7.20: GEK,filtered,reduced

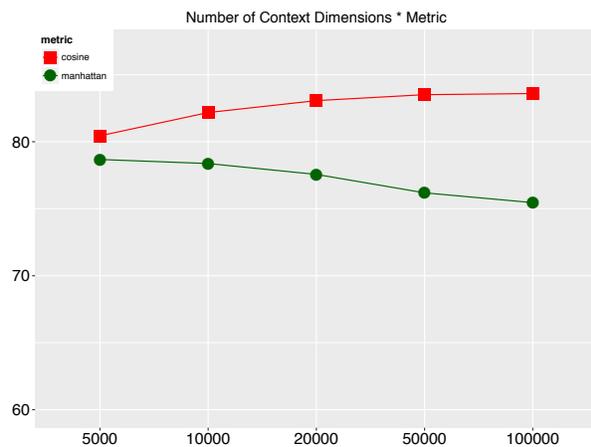


Figure 7.21: GEK,filtered,reduced

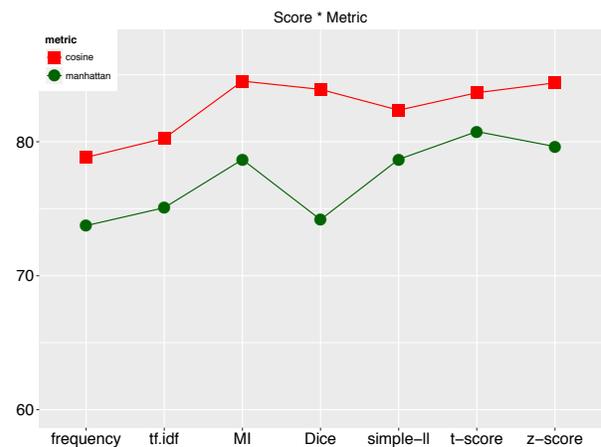


Figure 7.22: GEK,filtered,reduced

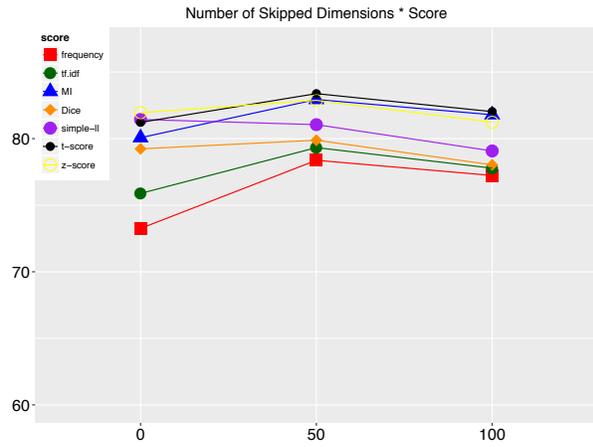


Figure 7.23: GEK,filtered,reduced

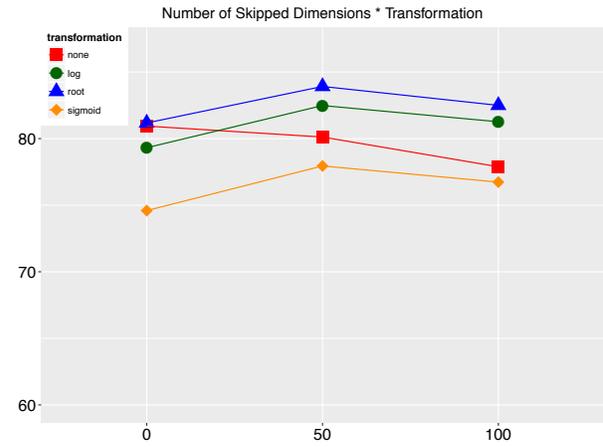


Figure 7.24: GEK,filtered,reduced

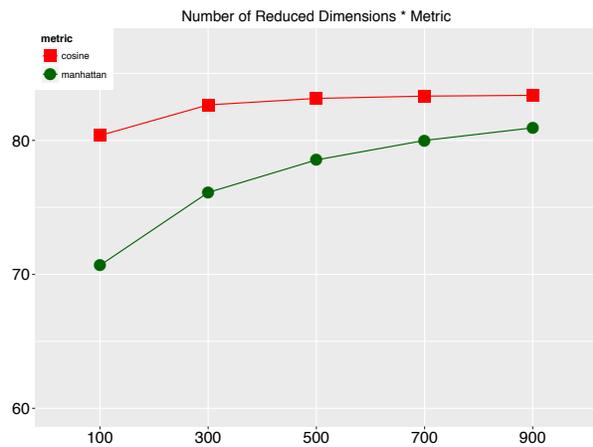


Figure 7.25: GEK,filtered,reduced

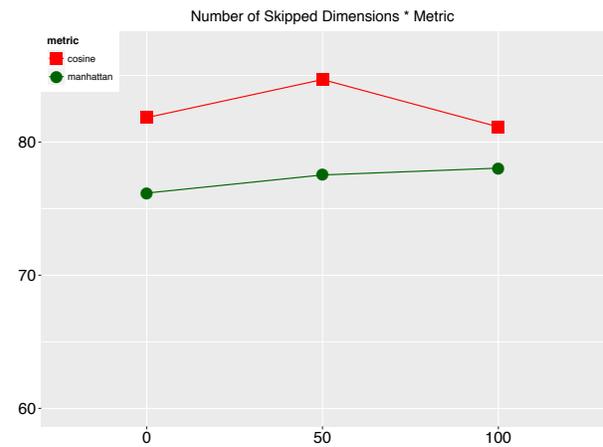


Figure 7.26: GEK,filtered,reduced

### 7.13.4 Interactions: typed, unreduced

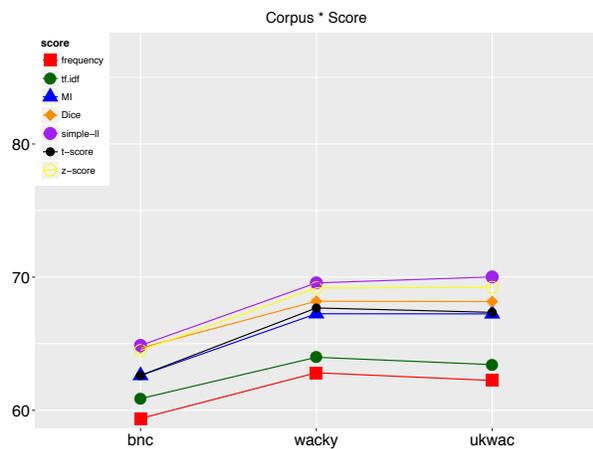


Figure 7.27: GEK,typed,unreduced

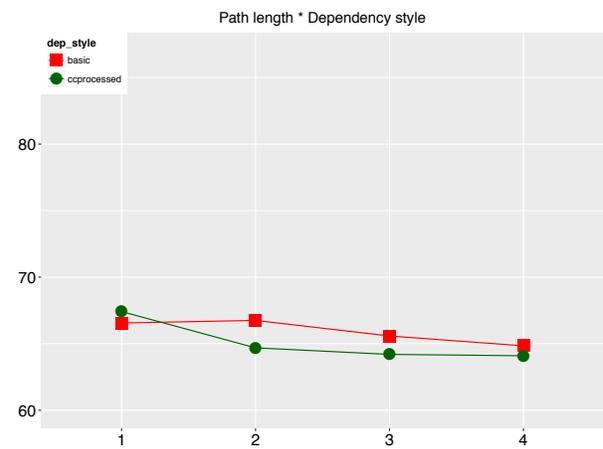


Figure 7.28: GEK,typed,unreduced

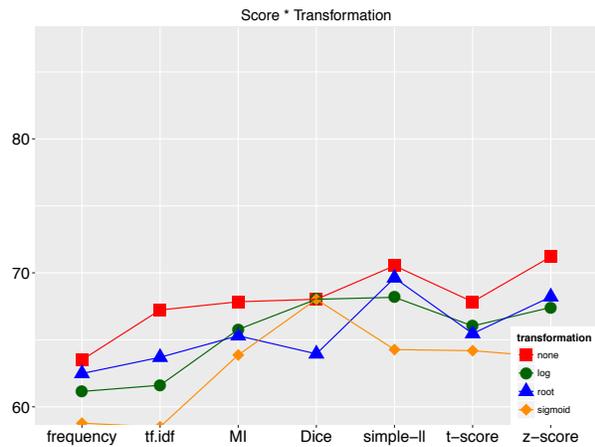


Figure 7.29: GEK,typed,unreduced

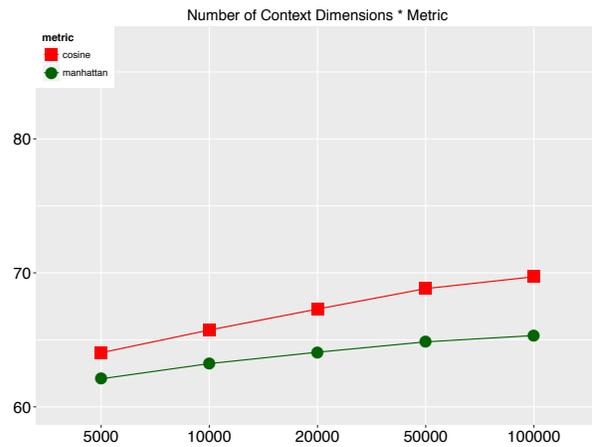


Figure 7.30: GEK,typed,unreduced

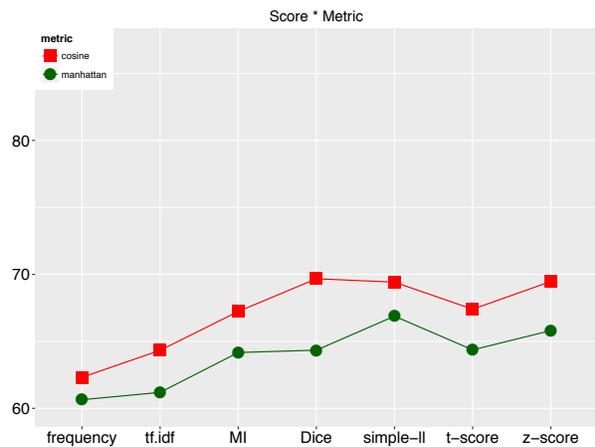


Figure 7.31: GEK,typed,unreduced

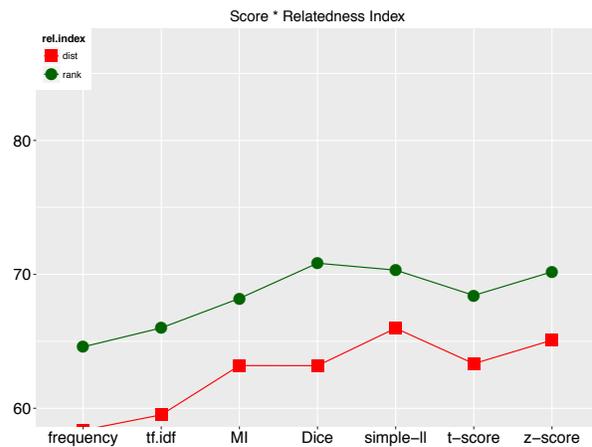


Figure 7.32: GEK,typed,unreduced

### 7.13.5 Interactions: typed, reduced

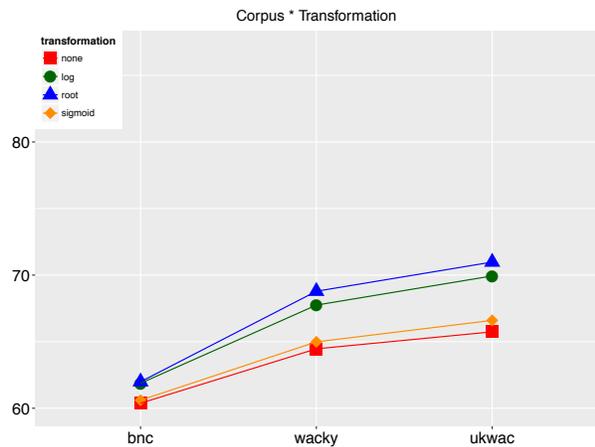


Figure 7.33: GEK,typed,reduced

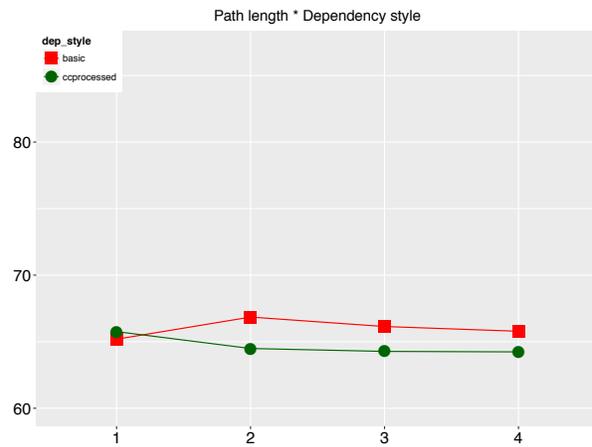


Figure 7.34: GEK,typed,reduced

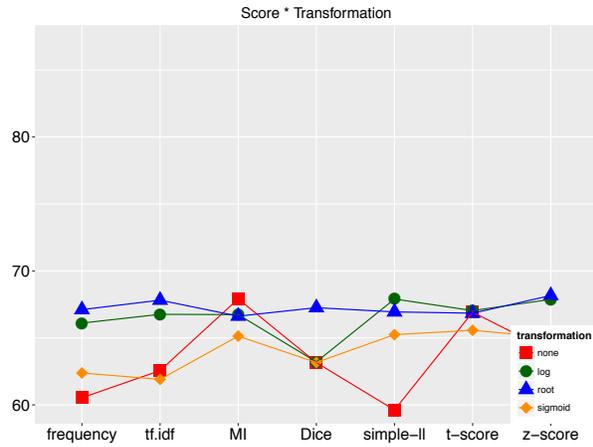


Figure 7.35: GEK,typed,reduced

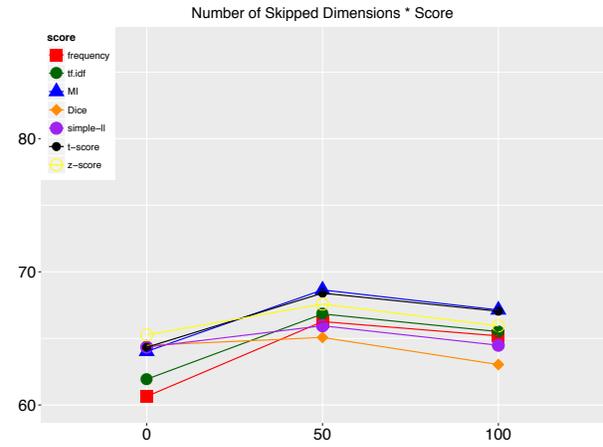


Figure 7.36: GEK,typed,reduced

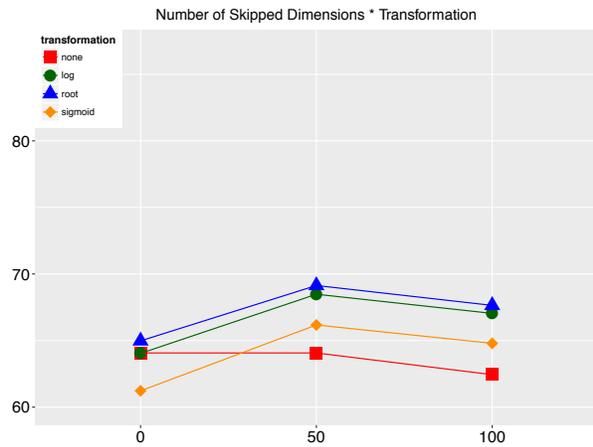


Figure 7.37: GEK,typed,reduced

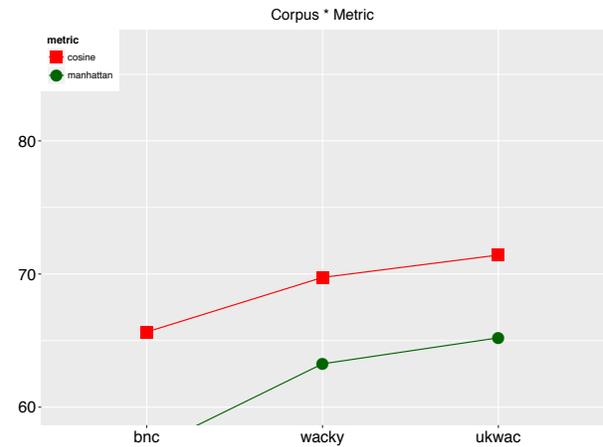


Figure 7.38: GEK,typed,reduced

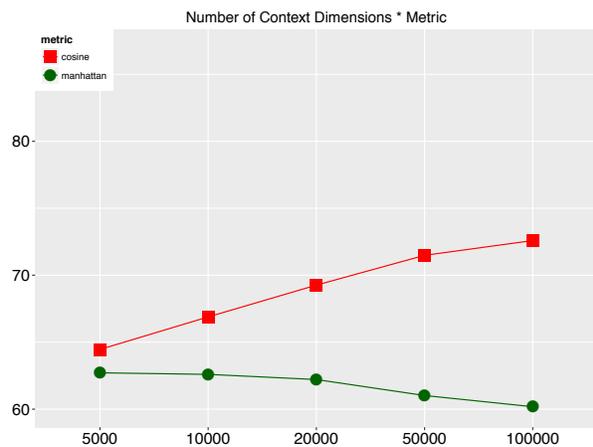


Figure 7.39: GEK,typed,reduced

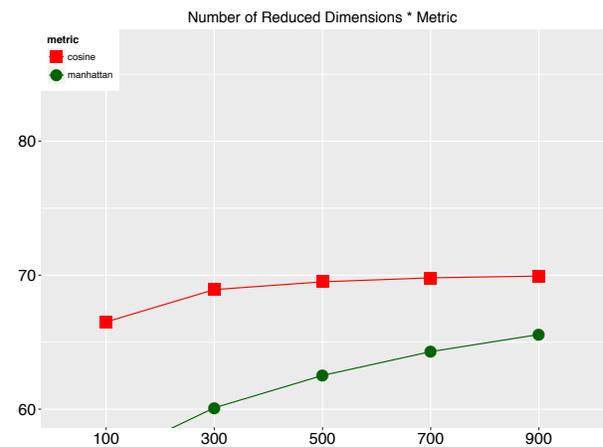


Figure 7.40: GEK,typed,reduced

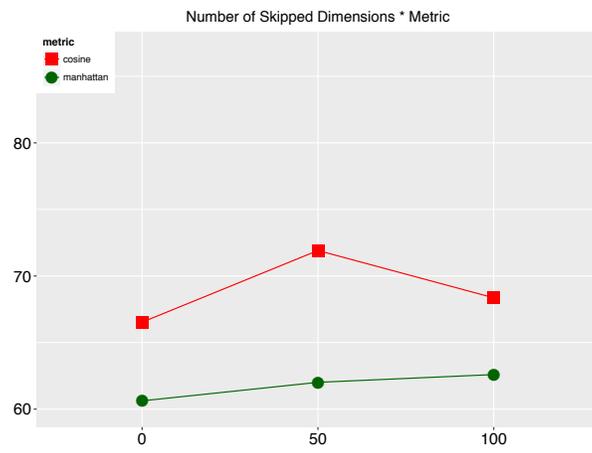


Figure 7.41: GEK,typed,reduced

## 8 Best models

### 8.1 TOEFL

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>metric</b>	<b>rel.ind</b>	<b>accuracy</b>
<i>filtered</i>	wacky	stanford	core	ccproc	1	50k	z-score	none	cosine	rank	85.00
<i>typed</i>	wacky	stanford	core	basic	2	100k	z-score	none	cosine	rank	83.75
<i>typed</i>	wacky	stanford	core	basic	2	50k	z-score	none	cosine	rank	83.75

Table 8.1: TOEFL, unreduced, best models - Filtered vs. Typed

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>d.skip</b>	<b>n.dim</b>	<b>metric</b>	<b>rel.ind</b>	<b>accuracy</b>
<i>filtered</i>	ukwac	malt	external	basic	2	5k	t-score	log	500	100	cosine	rank	93.75
<i>filtered</i>	ukwac	stanford	external	basic	3	5k	t-score	log	500	900	cosine	rank	93.75
<i>filtered</i>	wacky	stanford	external	basic	2	10k	simple-ll	log	500	900	cosine	rank	93.75
<i>typed</i>	ukwac	stanford	external	basic	4	50k	MI	none	100	700	cosine	dist	91.25
<i>typed</i>	ukwac	stanford	external	basic	4	50k	MI	none	100	900	cosine	dist	91.25
<i>typed</i>	ukwac	stanford	external	basic	1	100k	MI	root	100	900	cosine	dist	91.25

Table 8.2: TOEFL, reduced. Filtered (3 runs tied for best result) vs. Typed (3 runs tied for best result)

## 8.2 Ratings

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>metric</b>	<b>rel.ind</b>	<b>r</b>
<i>filtered</i>	wacky	malt	external	ccproc	1	50k	MI	none	cosine	rank	0.88
<i>typed</i>	wacky	malt	core	ccproc	1	100k	z-score	none	manhattan	rank	0.80

Table 8.3: RG65, unreduced, best models - Filtered vs. Typed

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>d.skip</b>	<b>n.dim</b>	<b>metric</b>	<b>rel.ind</b>	<b>r</b>
<i>filtered</i>	ukwac	malt	core	basic	4	50k	MI	none	50	500	cosine	rank	0.88
<i>typed</i>	wacky	malt	core	basic	1	100k	z-score	log	100	900	cosine	rank	0.87

Table 8.4: RG65, reduced, best models - Filtered vs. Typed

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>metric</b>	<b>rel.ind</b>	<b>r</b>
<i>filtered</i>	ukwac	stanford	external	ccproc	4	50k	z-score	none	cosine	rank	0.71
<i>typed</i>	ukwac	stanford	external	basic	1	100k	z-score	root	cosine	rank	0.59

Table 8.5: WS353, unreduced, best models - Filtered vs. Typed

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>d.skip</b>	<b>n.dim</b>	<b>metric</b>	<b>rel.ind</b>	<b>r</b>
<i>filtered</i>	ukwac	stanford	core	ccproc	3	100k	z-score	root	50	900	cosine	rank	0.72
<i>typed</i>	ukwac	stanford	external	basic	1	100k	MI	none	50	900	cosine	rank	0.66

Table 8.6: WS353, reduced, best models - Filtered vs. Typed

### 8.3 Clustering

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	metric	rel.ind	purity
<i>filtered</i>	ukwac	malt	external	basic	1	100k	z-score	log	cosine	rank	0.75
<i>typed</i>	wacky	stanford	external	ccproc	1	100k	z-score	none	manhattan	rank	0.75
<i>typed</i>	wacky	malt	external	ccproc	1	100k	z-score	root	cosine	rank	0.75
<i>typed</i>	wacky	stanford	external	ccproc	1	100k	z-score	none	manhattan	rank	0.75

Table 8.7: AP, unreduced, best models - Filtered vs. Typed (3 runs tied for best result)

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	d.skip	n.dim	metric	rel.ind	purity
<i>filtered</i>	wacky	malt	core	ccproc	1	20k	t-score	none	0	900	manhattan	rank	0.75
<i>typed</i>	ukwac	stanford	external	basic	1	100k	z-score	root	0	300	cosine	rank	0.78

Table 8.8: AP, reduced, best models - Filtered vs. Typed

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	metric	rel.ind	purity
<i>filtered</i>	bnc	malt	external	basic	2	100k	z-score	none	manhattan	rank	0.98
<i>filtered</i>	ukwac	malt	core	basic	2	100k	simple-ll	log	cosine	rank	0.98
<i>filtered</i>	wacky	stanford	external	basic	2	50k	z-score	none	manhattan	dist	0.98
<i>typed</i>	ukwac	stanford	core	ccproc	1	100k	Dice	root	cosine	rank	0.95

Table 8.9: BATTIG, unreduced, best models - Filtered (46 runs tied for best result, 3 hand-picked examples shown) vs. Typed

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	d.skip	n.dim	metric	rel.ind	purity
<i>filtered</i>	bnc	malt	core	basic	4	50k	z-score	root	0	500	cosine	rank	0.99
<i>filtered</i>	ukwac	malt	core	ccproc	4	100k	z-score	none	100	500	manhattan	rank	0.99
<i>filtered</i>	ukwac	malt	external	basic	1	100k	freq	log	50	300	cosine	dist	0.99
<i>typed</i>	ukwac	stanford	core	ccproc	1	100k	z-score	root	50	100	cosine	rank	1.00

Table 8.10: BATTIG, reduced, best models - Filtered (520 runs tied for best result, 3 hand-picked examples shown) vs. Typed

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	metric	rel.ind	purity
<i>filtered</i>	bnc	stanford	external	basic	1	50k	MI	none	cosine	rank	0.91
<i>filtered</i>	wacky	stanford	external	basic	1	100k	simple-ll	log	manhattan	rank	0.91
<i>filtered</i>	ukwac	stanford	external	basic	1	50k	z-score	log	manhattan	rank	0.91
<i>filtered</i>	wacky	stanford	external	ccproc	1	100k	z-score	none	manhattan	dist	0.91
<i>typed</i>	bnc	malt	external	basic	1	20k	t-score	sigmoid	cosine	rank	0.89
<i>typed</i>	bnc	malt	external	basic	1	50k	MI	root	cosine	rank	0.89

Table 8.11: ESSLLI, unreduced, best models - Filtered (4 runs tied for best result) vs. Typed (2 runs tied for best result)

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	d.skip	n.dim	metric	rel.ind	purity
<i>filtered</i>	ukwac	stanford	core	basic	1	100k	simple-ll	log	50	700	cosine	dist	0.98
<i>filtered</i>	ukwac	stanford	core	basic	1	50k	tf.idf	root	50	500	cosine	dist	0.98
<i>filtered</i>	wacky	malt	external	basic	3	100k	z-score	none	0	700	manhattan	rank	0.98
<i>typed</i>	ukwac	stanford	external	basic	1	100k	simple-ll	log	50	100	cosine	rank	0.98

Table 8.12: ESSLLI, reduced, best models - Filtered (29 runs tied for best result 3 hand-picked examples shown) vs. Typed

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	metric	rel.ind	purity
<i>filtered</i>	bnc	external	malt	basic	1	100k	simple-ll	log	cosine	rank	0.93
<i>filtered</i>	ukwac	external	malt	basic	3	10k	simple-ll	root	cosine	rank	0.93
<i>filtered</i>	bnc	external	stanford	basic	2	50k	simple-ll	root	cosine	rank	0.93
<i>typed</i>	bnc	external	stanford	basic	1	100k	z-score	none	manhattan	dist	0.90
<i>typed</i>	bnc	external	stanford	basic	1	50k	z-score	none	manhattan	dist	0.90
<i>typed</i>	bnc	external	stanford	basic	2	100k	z-score	none	cosine	rank	0.90

Table 8.13: MITCHELL, unreduced, best models - Filtered (33 runs tied for best result, 3 hand-picked examples shown) vs. Typed (3 runs tied for best result).

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	d.skip	n.dim	metric	rel.ind	purity
<i>filtered</i>	bnc	stanford	external	basic	2	20k	z-score	root	0	700	cosine	rank	0.97
<i>typed</i>	bnc	malt	external	ccproc	1	100k	Dice	root	50	100	cosine	rank	0.95
<i>typed</i>	bnc	stanford	external	basic	1	100k	z-score	root	50	300	cosine	rank	0.95

Table 8.14: MITCHELL, reduced, best models - Filtered vs. Typed (2 runs tied for best result)

## 8.4 Semantic Priming

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	metric	rel.ind	accuracy
<i>filtered</i>	wacky	stanford	external	ccproc	1	100k	z-score	log	cosine	rank	97.94
<i>filtered</i>	wacky	stanford	external	ccproc	1	50k	simple-ll	log	cosine	rank	97.94
<i>filtered</i>	wacky	stanford	external	ccproc	1	50k	z-score	root	cosine	rank	97.94
<i>filtered</i>	wacky	stanford	external	ccproc	1	5k	z-score	none	manhattan	rank	97.94
<i>typed</i>	wacky	stanford	external	ccproc	1	100k	z-score	none	cosine	rank	96.56
<i>typed</i>	wacky	stanford	external	basic	2	100k	z-score	none	cosine	rank	96.56

Table 8.15: SYN, unreduced, best models - Filtered (4 runs tied for best result) vs. Typed (2 runs tied for best result)

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	d.skip	n.dim	metric	rel.ind	accuracy
<i>filtered</i>	ukwac	stanford	external	ccproc	1	50k	z-score	log	100	900	cosine	rank	99.31
<i>typed</i>	ukwac	stanford	external	basic	1	100k	tf.idf	log	50	900	cosine	rank	97.25

Table 8.16: SYN, reduced, best models - Filtered vs. Typed

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	metric	rel.ind	accuracy
<i>filtered</i>	bnc	malt	core	basic	4	10k	frequency	none	manhattan	rank	100.00
<i>filtered</i>	ukwac	stanford	external	basic	3	100k	z-score	none	cosine	rank	100.00
<i>filtered</i>	wacky	stanford	core	basic	3	20k	t-score	none	cosine	rank	100.00
<i>typed</i>	bnc	malt	core	ccproc	1	50k	MI	none	cosine	rank	100.00
<i>typed</i>	ukwac	malt	external	ccproc	1	10k	Dice	none	cosine	rank	100.00
<i>typed</i>	wacky	malt	core	basic	4	50k	simple-ll	log	manhattan	rank	100.00

Table 8.17: ANT, unreduced, best models - Filtered (5387 runs tied for best result, 3 hand-picked examples shown) vs. Typed (1469 runs tied for best result, 3 hand-picked examples shown).

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	d.skip	n.dim	metric	rel.ind	accuracy
<i>filtered</i>	bnc	malt	core	ccproc	4	50k	MI	none	0	700	cosine	rank	100.00
<i>filtered</i>	wacky	stanford	external	ccproc	2	100k	MI	log	0	900	cosine	rank	100.00
<i>filtered</i>	ukwac	stanford	external	ccproc	1	5k	MI	root	0	300	cosine	dist	100.00
<i>typed</i>	ukwac	malt	core	basic	4	20k	tf.idf	log	100	700	cosine	dist	100.00
<i>typed</i>	wacky	stanford	external	ccproc	3	5k	simple-ll	sigmoid	50	500	manhattan	rank	100.00
<i>typed</i>	wacky	stanford	external	ccproc	1	5k	t-score	cosine	50	900	cosine	rank	100.00

Table 8.18: ANT, reduced, best models - Filtered (23209 runs tied for best result, 3 hand-picked examples shown) vs. Typed: (805 runs tied for best result, 3 hand-picked examples shown).

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	metric	rel.ind	accuracy
<i>filtered</i>	wacky	stanford	external	ccproc	1	50k	simple-ll	root	cosine	rank	100.00
<i>filtered</i>	ukwac	stanford	external	basic	1	50k	Dice	none	cosine	rank	100.00
<i>filtered</i>	bnc	stanford	core	basic	1	100k	simple-ll	log	cosine	rank	100.00
<i>typed</i>	wacky	stanford	external	ccproc	1	10k	simple-ll	none	manhattan	dist	100.00
<i>typed</i>	wacky	stanford	external	ccproc	2	50k	z-score	none	cosine	rank	100.00
<i>typed</i>	ukwac	stanford	core	ccproc	1	100k	MI	sigmoid	cosine	rank	100.00

Table 8.19: COH, unreduced, best models - Filtered (1139 runs tied for best result, 3 hand-picked examples shown) vs. Typed (721 runs tied for best result, 3 hand-picked examples shown).

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	d.skip	n.dim	metric	rel.ind	accuracy
<i>filtered</i>	ukwac	stanford	external	basic	2	100k	MI	log	50	500	cosine	rank	100.00
<i>filtered</i>	wacky	stanford	external	ccproc	2	5k	z-score	log	50	900	cosine	rank	100.00
<i>filtered</i>	ukwac	malt	core	basic	1	10k	MI	none	50	700	manhattan	rank	100.00
<i>typed</i>	bnc	stanford	core	ccproc	1	10k	MI	root	0	900	cosine	rank	100.00
<i>typed</i>	wacky	stanford	external	ccproc	3	50k	z-score	root	0	700	cosine	rank	100.00
<i>typed</i>	ukwac	stanford	external	ccproc	1	100k	t-score	sigmoid	0	700	cosine	rank	100.00

Table 8.20: COH, reduced, best models - Filtered (8237 runs tied for best result, 3 hand-picked examples shown) vs. Typed (2617 runs tied for best result, 3 hand-picked examples shown).

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	metric	rel.ind	accuracy
<i>filtered</i>	ukwac	stanford	core	basic	2	100k	Dice	none	cosine	rank	97.22
<i>filtered</i>	ukwac	stanford	core	basic	2	50k	z-score	none	cosine	rank	97.22
<i>filtered</i>	wacky	malt	external	basic	4	50k	z-score	none	cosine	rank	97.22
<i>typed</i>	wacky	stanford	core	basic	1	50k	MI	none	cosine	rank	88.19
<i>typed</i>	wacky	stanford	external	basic	1	100k	MI	none	cosine	rank	88.19
<i>typed</i>	wacky	stanford	external	basic	1	50k	z-score	none	manhattan	rank	88.19

Table 8.21: FPA, unreduced, best models - Filtered (9 runs tied for best result, 3 hand-picked examples shown). Typed (5 runs tied for best result, 3 hand-picked examples shown)

	corpus	parser	d.group	d.style	p.len	c.dim	score	transf	d.skip	n.dim	metric	rel.ind	accuracy
<i>filtered</i>	wacky	malt	external	ccproc	3	20k	z-score	none	0	900	cosine	dist	97.22
<i>filtered</i>	ukwac	stanford	core	ccproc	4	10k	tf.idf	none	50	50	manhattan	rank	97.22
<i>filtered</i>	wacky	stanford	external	basic	3	10k	z-score	none	0	900	cosine	rank	97.22
<i>typed</i>	ukwac	stanford	external	basic	1	100k	z-score	root	50	900	cosine	rank	90.28

Table 8.22: FPA, reduced, best models -. Filtered (15 runs tied for best result, 3 hand-picked examples shown) vs. Typed.

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>metric</b>	<b>rel.ind</b>	<b>accuracy</b>
<i>filtered</i>	ukwac	malt	core	basic	3	100k	z-score	root	cosine	rank	97.75
<i>filtered</i>	ukwac	malt	external	basic	2	100k	Dice	log	cosine	rank	97.75
<i>filtered</i>	ukwac	malt	external	ccprocessed	4	20k	z-score	none	cosine	rank	97.75
<i>typed</i>	ukwac	malt	external	basic	1	100k	z-score	root	cosine	rank	92.13

Table 8.23: BPA, unreduced, best models - Filtered (43 runs tied for best result, 3 hand-picked examples shown) vs. Typed

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>d.skip</b>	<b>n.dim</b>	<b>metric</b>	<b>rel.ind</b>	<b>accuracy</b>
<i>filtered</i>	bnc	malt	external	ccprocessed	3	100k	MI	none	50	700	cosine	rank	98.88
<i>filtered</i>	ukwac	malt	core	basic	4	100k	simple-ll	log	50	700	cosine	rank	98.88
<i>filtered</i>	ukwac	malt	core	ccprocessed	3	100k	Dice	root	50	500	cosine	rank	98.88
<i>typed</i>	ukwac	stanford	core	basic	2	100k	Dice	root	100	900	cosine	rank	95.51
<i>typed</i>	ukwac	stanford	core	basic	2	100k	Dice	root	100	900	cosine	rank	95.51

Table 8.24: BPA, reduced, best models - Filtered (365 runs tied for best result) vs. Typed (2 models tied for best result)

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>metric</b>	<b>rel.ind</b>	<b>accuracy</b>
<i>filtered</i>	ukwac	stanford	external	basic	4	50k	z-score	none	cosine	rank	95.54
<i>typed</i>	ukwac	stanford	external	basic	1	100k	z-score	none	cosine	rank	87.13

Table 8.25: GEK, unreduced, best models - Filtered vs. Typed

	<b>corpus</b>	<b>parser</b>	<b>d.group</b>	<b>d.style</b>	<b>p.len</b>	<b>c.dim</b>	<b>score</b>	<b>transf</b>	<b>d.skip</b>	<b>n.dim</b>	<b>metric</b>	<b>rel.ind</b>	<b>accuracy</b>
<i>filtered</i>	ukwac	malt	external	basic	4	10k	MI	none	50	700	manhattan	rank	95.79
<i>filtered</i>	ukwac	malt	external	basic	4	50k	Dice	root	50	900	cosine	dist	95.79
<i>filtered</i>	ukwac	malt	external	basic	4	50k	Dice	root	50	900	cosine	rank	95.79
<i>filtered</i>	ukwac	stanford	external	ccproc	3	50k	Dice	root	50	900	cosine	dist	95.79
<i>typed</i>	ukwac	malt	core	basic	2	100k	tf.idf	log	50	300	cosine	dist	89.60
<i>typed</i>	ukwac	malt	external	basic	2	100k	frequency	log	50	900	cosine	dist	89.60

Table 8.26: GEK, reduced, best models - Filtered (4 runs tied for best result). Typed (2 runs tied for best result).