

- Heads and tails
- Rank vs frequency
- Type vs token
- Frequency of frequencies
- Frequency of intervals
- Historical trends

Watch out for these terms:

- Heads (of a frequency distribution; also tails)
- Hapax legomena (singular, hapax legomenon; “hapaxes” for short)
- Function words
- Stop words
- Rank
- Zipf’s law
- Type-token curve
- Frequency of the frequencies (count of counts)

To review ask yourself these questions:

- What does rank vs frequency suggest about the distribution of words?
- What claim did Zipf make about how rank vs frequency exemplifies the principle of least effort?
- What does the type-token curve suggest about a text’s lexical richness?
- What does the frequency of the frequencies suggest about a text’s lexical richness?
- What does the frequency of the intervals suggest about linguistic “clumpiness” (or “burstiness”)?

Baum
 the 20556
 and 12063
 to 8763
 of 6924
 a 6216
 i 5036
 in 4170
 you 3635
 was 3494
 that 3428
 it 3277
 he 3031
 they 2663
 but 2460
 her 2430
 she 2413
 as 2320
 for 2171
 said 2140
 his 2119
 with 2057
 had 2056
 so 2035
 is 1983
 all 1927
 s 1765
 not 1721
 at 1692
 be 1598
 this 1507
 my 1496
 them 1493
 were 1493
 dorothy 1465
 we 1419
 t 1324
 are 1221
 me 1202
 one 1200
 have 1110
 on 1110
 no 1100
 from 1065
 him 1046
 then 1020
 do 1003
 when 994
 their 962
 if 946
 who 919
 king 917
 there 905
 will 878
 by 862
 ozma 817
 now 811
 what 799
 little 798
 can 797
 scarecrow 795
 your 795
 could 767
 would 762
 which 761
 or 757
 tin 756
 out 739
 up 694
 upon 694
 very 686
 into 675
 asked 671
 us 618
 good 617
 or 614
 see 586
 man 584
 an 583
 girl 583
 where 550
 way 545
 made 538
 been 527
 people 513
 here 512
 well 509
 time 504
 like 502
 go 498
 did 493
 before 489
 over 485
 m 484
 great 480
 know 477
 woodman 468
 again 457
 any 456
 some 456
 get 454

Top 100 types

Chesterton
 the 16616
 of 8719
 a 7453
 and 7143
 to 5587
 in 4659
 is 4512
 that 4509
 it 4150
 he 3801
 i 3131
 was 2659
 his 2427
 but 2387
 as 2329
 not 2166
 are 2592
 you 1872
 be 1854
 for 1802
 man 1473
 this 1449
 or 1378
 all 1352
 they 1290
 are 1288
 we 1288
 at 1268
 had 1261
 have 1260
 on 1210
 which 1132
 if 1129
 one 1093
 said 1061
 an 1008
 there 994
 by 969
 like 949
 s 899
 him 894
 who 867
 more 807
 has 765
 were 755
 only 754
 from 723
 so 721
 about 670
 can 667
 what 658
 will 637
 no 635
 out 605
 do 602
 when 601
 would 585
 than 582
 some 579
 very 571
 any 569
 men 562
 my 543
 because 528
 syme 519
 them 509
 may 503
 their 501
 could 500
 up 495
 even 486
 been 484
 other 478
 say 477
 me 462
 into 458
 then 454
 t 450
 thing 444
 mr 437
 life 492
 things 434
 great 388
 world 382
 must 381
 our 381
 think 378
 old 365
 know 363
 go 498
 did 493
 before 489
 over 485
 m 484
 great 480
 know 477
 woodman 468
 again 457
 any 456
 some 456
 get 454

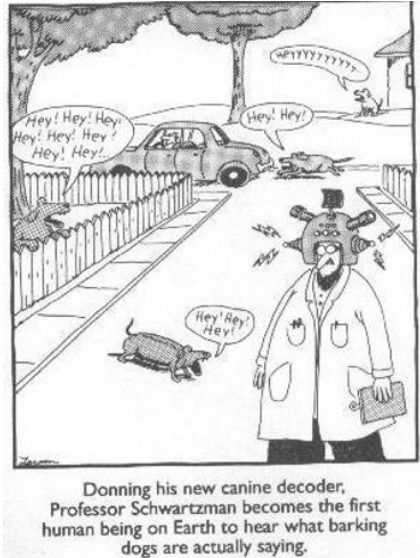
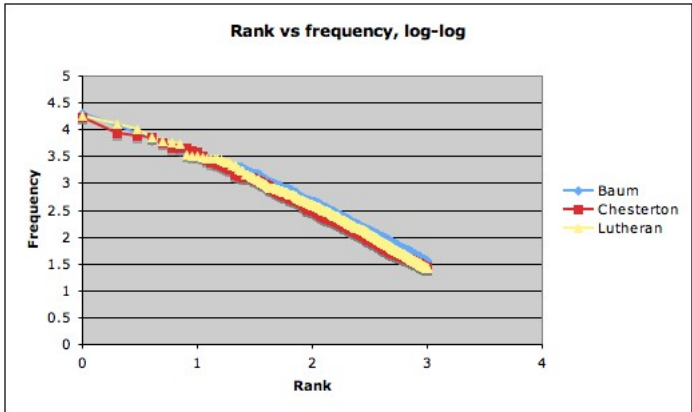
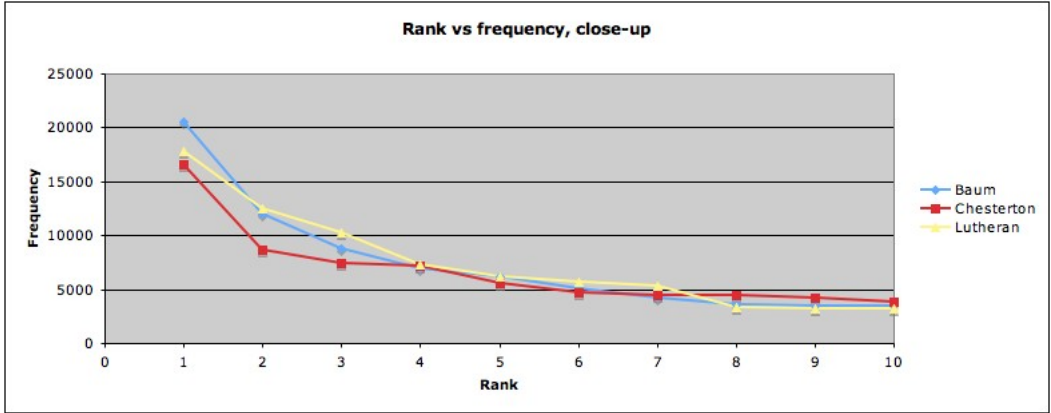
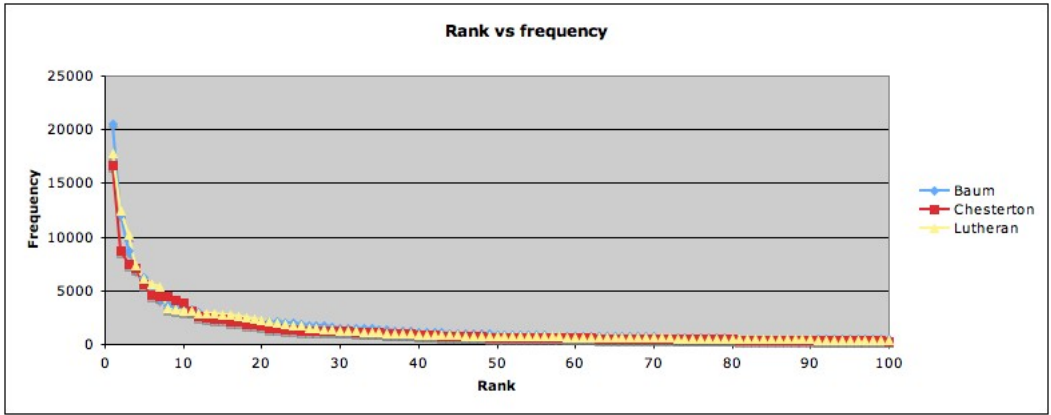
Lutheran
 the 17827
 and 12480
 of 10247
 to 7351
 that 6144
 in 5639
 is 5299
 not 3317
 for 3249
 it 3157
 god 3126
 we 2897
 as 2860
 be 2844
 this 2795
 a 2713
 are 2592
 they 2444
 but 2385
 by 2181
 which 2135
 christ 1992
 he 1855
 or 1730
 have 1703
 all 1471
 we 1288
 with 1458
 faith 1425
 his 1361
 will 1287
 our 1256
 also 1207
 s 1139
 us 1129
 who 1101
 has 1022
 will 1002
 one 977
 works 975
 these 907
 do 880
 so 832
 holy 839
 sins 812
 them 811
 no 795
 if 794
 law 781
 when 773
 their 758
 i 754
 concerning 746
 word 731
 on 727
 therefore 713
 what 702
 only 701
 because 689
 you 673
 such 671
 good 655
 there 637
 him 628
 can 627
 sin 619
 been 598
 church 598
 should 597
 other 595
 man 593
 without 578
 men 575
 must 556
 may 525
 those 512
 would 511
 gospel 510
 does 497
 at 495
 life 492
 says 490
 was 479
 through 474
 were 472
 nature 465
 things 462
 thus 457
 even 456
 upon 445
 righteousness 437
 nor 434
 remission 434
 doctrine 430
 true 420
 before 419
 now 408
 grace 406
 according 404
 against 402
 paul 395

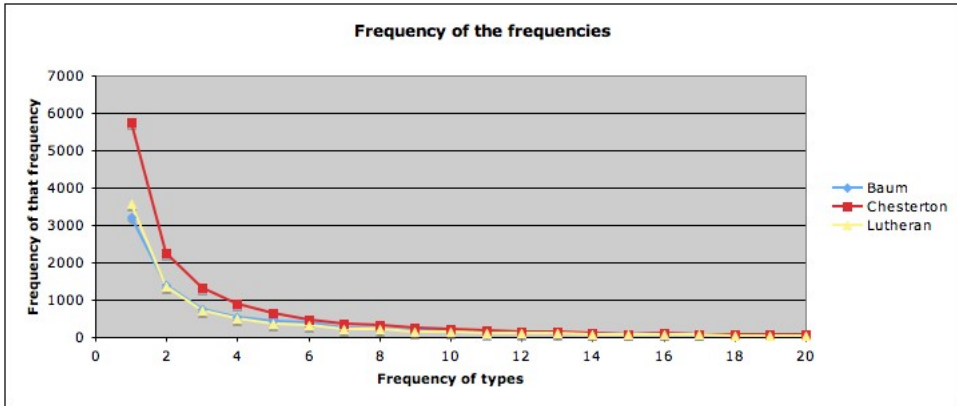
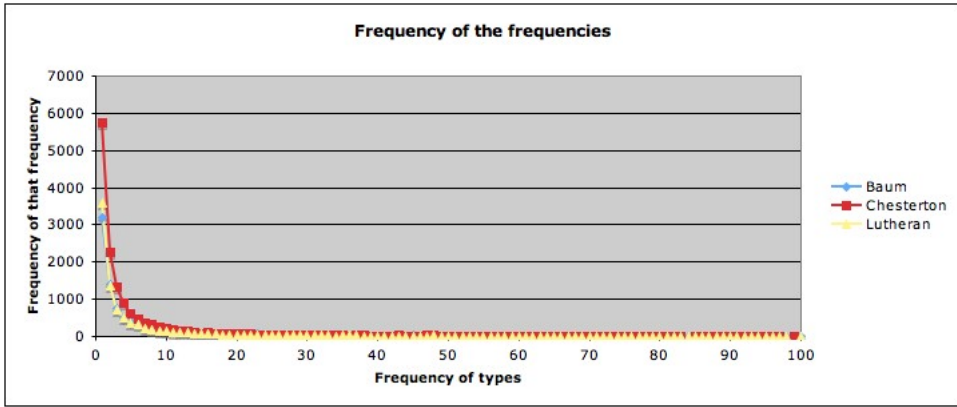
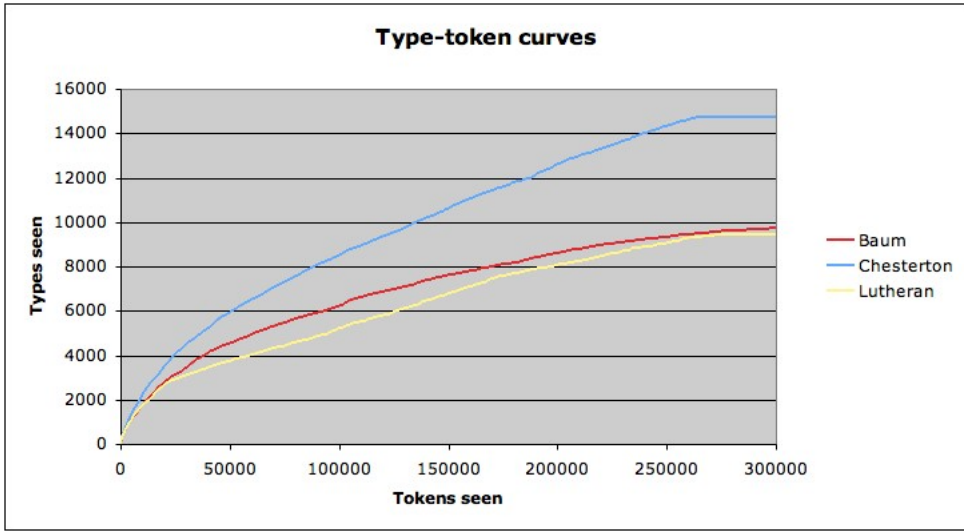
Baum
 said 2140
 dorothy 1465
 one 1200
 king 917
 ozma 817
 little 798
 scarecrow 795
 could 767
 would 762
 or 757
 tin 756
 upon 694
 asked 671
 us 618
 good 617
 see 586
 man 584
 girl 583
 way 545
 made 538
 people 513
 well 509
 time 504
 like 502
 go 498
 m 484
 great 480
 know 477
 woodman 468
 get 454
 magic 452
 must 449
 replied 449
 head 441
 away 439
 back 436
 came 416
 trot 399
 much 392
 land 384
 make 378
 long 365
 country 359
 around 358
 cap 355
 never 354
 ll 345
 oh 345
 first 335
 shaggy 325
 think 323
 n 320
 come 318
 answered 317
 old 315
 big 313
 eyes 312
 find 312
 wizard 312
 bill 308
 found 307
 room 306
 looked 301
 many 293
 shall 287
 may 286
 betsy 283
 queen 280
 none 279
 let 275
 glinda 274
 place 274
 sure 272
 lion 266
 princess 266
 might 259
 quite 257
 w 257
 water 257
 ever 255
 three 255
 city 254
 right 253
 witch 253
 woot 252
 cried 251
 two 247
 friends 244
 green 244
 seemed 243
 another 242
 even 239
 went 236
 saw 232
 thought 231
 take 230
 voice 230
 soon 229
 began 227
 em 227

Chesterton
 man 1473
 one 1093
 said 1061
 like 949
 would 585
 men 562
 syme 519
 may 503
 could 500
 even 486
 say 477
 thing 444
 mr 437
 things 434
 great 388
 world 382
 must 381
 think 378
 old 365
 know 363
 something 336
 really 330
 much 323
 see 323
 quite 321
 two 319
 us 319
 night 306
 brown 305
 little 304
 well 304
 good 289
 always 282
 first 279
 people 274
 never 271
 still 265
 modern 261
 father 255
 face 252
 rather 247
 long 240
 make 238
 human 237
 time 236
 seemed 226
 thought 224
 life 223
 right 223
 fact 221
 must 221
 whole 220
 cannot 217
 almost 215
 way 213
 every 212
 found 209
 black 208
 mean 207
 looked 205
 god 204
 head 204
 sense 204
 upon 200
 christianity 199
 nothing 199
 come 195
 go 195
 without 194
 back 189
 came 189
 last 180
 take 186
 asked 183
 eyes 182
 anything 181
 many 181
 yet 179
 matter 178
 also 176
 another 176
 new 175
 place 174
 shall 173
 truth 172
 enough 170
 certain 163
 went 163
 find 161
 christian 160
 look 160
 called 159
 sort 159
 professor 158
 everything 156
 moment 156
 though 156
 let 155
 kind 153
 mere 153

Top 100 types excluding stopwords

Lutheran
 god 3126
 christ 1992
 faith 1425
 also 1207
 us 1129
 one 977
 works 975
 holy 819
 sins 812
 law 781
 concerning 746
 word 731
 therefore 713
 good 655
 sin 619
 church 598
 man 593
 without 578
 men 575
 must 556
 may 525
 would 511
 gospel 510
 life 492
 says 490
 nature 465
 things 462
 thus 457
 even 456
 upon 445
 righteousness 437
 remission 434
 doctrine 430
 true 420
 grace 406
 according 404
 paul 395
 believe 393
 body 390
 adversaries 377
 since 364
 namely 363
 love 359
 paul 357
 human 355
 sake 354
 ghost 347
 say 347
 cannot 339
 words 332
 account 326
 nothing 325
 power 323
 shall 322
 many 315
 teach 312
 divine 310
 order 306
 article 304
 first 303
 heart 302
 yet 302
 although 300
 neither 299
 christian 295
 eternal 294
 confession 291
 ought 291
 promise 290
 work 285
 know 283
 great 278
 necessary 275
 merit 274
 alone 270
 though 262
 way 260
 world 251
 reason 250
 part 249
 made 248
 every 246
 repentance 242
 death 240
 said 240
 rom 239
 father 235
 truly 234
 new 231
 entire 230
 etc 227
 time 227
 another 223
 given 218
 night 210
 let 208
 indeed 207
 among 205
 name 205
 commandment 204





Interval frequency

