

Silent versus Reading Out Loud modes: an eye-tracking study

Supplementary tables

Table 1: *p* values of all asymmetries of “non word- based” parameters for both populations

| Asymmetries | | | | | | | |
|-------------|---------------|---------|----------------|---------------|-----------|-----------|-----------|
| Typical | Reading speed | Fix. no | Mean fix. dur. | Mean sac. len | 25% perc. | 50% perc. | 75% perc. |
| Group A | 0.2434 | 0.0046 | 0.0157 | 0.2171 | 0.1710 | 0.3716 | 0.1262 |
| Group B | 0.0091 | 0.2828 | 0.0005 | 0.0013 | 0.0585 | 0.0065 | 0.0004 |
| Group C | 0.0652 | 0.3737 | 0.0021 | 0.0295 | 0.1602 | 0.0607 | 0.0054 |
| Dyslexic | Reading speed | Fix. no | Mean fix. dur. | Mean sac. len | 25% | 50% | 75% |
| Group A | 0.0003 | 0.0009 | 0.0162 | 0.0001 | 0.0011 | 0.0000 | 0.0008 |
| Group B | 0.0002 | 0.0017 | 0.0702 | 0.2477 | 0.0133 | 0.0562 | 0.2295 |
| Group C | 0.4790 | 0.1894 | 0.3648 | 0.3326 | 0.2046 | 0.1128 | 0.4324 |

Table 2: *p* values of all asymmetries of “word-based” parameters for both populations

| Asymmetries | | | | | |
|-------------|---------------|------------------|--------------|-------------|----------------|
| Typical | No fix. words | Mult. fix. words | Gaze dur 6-7 | Gaze dur 8+ | Back refix. |
| Group A | 0.1724 | 0.1863 | 0.1835 | 0.0688 | 0.0001 |
| Group B | 0.0034 | 0.0667 | 0.0654 | 0.0452 | 0.1122 |
| Group C | 0.0037 | 0.4297 | 0.0236 | 0.0101 | 0.3089 |
| Dyslexic | No fix. words | Mult. fix. words | Gaze dur 6-7 | Gaze dur 8+ | Back refix. |
| Group A | 0.0541 | 0.0091 | 0.0034 | 0.0002 | 0.0130 |
| Group B | 0.4164 | 0.0459 | 0.1738 | 0.0174 | 0.0539 |
| Group C | 0.0970 | 0.3108 | 0.0180 | 0.0458 | 0.0928 |

Table 3: The ratios d_T and d_D for all parameters

| | Ratios | | | | | | |
|---------------|---------------|---------|----------------|---------------|-----------|-----------|-----------|
| | Reading speed | Fix. no | Mean fix. dur. | Mean sac. len | 25% perc. | 50% perc. | 75% perc. |
| d_T Group A | 0,06 | 0,17 | 0,11 | 0,08 | 0,16 | 0,04 | 0,11 |
| d_T Group B | 0,31 | 0,04 | 0,40 | 0,59 | 0,45 | 0,57 | 0,56 |
| d_T Group C | 0,19 | 0,03 | 0,39 | 0,33 | 0,22 | 0,41 | 0,40 |
| | Reading speed | Fix. no | Mean fix. dur. | Mean sac. len | 25% | 50% | 75% |
| d_D Group A | 0,22 | 0,39 | 0,18 | 0,30 | 0,34 | 0,39 | 0,19 |
| d_D Group B | 0,15 | 0,24 | 0,12 | 0,05 | 0,23 | 0,10 | 0,05 |
| d_D Group C | 0,01 | 0,17 | 0,06 | 0,06 | 0,14 | 0,08 | 0,03 |

Table 3: continue

| | Ratios | | | | |
|---------------|---------------|------------------|--------------|-------------|-------------|
| | No fix. words | Mult. fix. words | Gaze dur 6-7 | Gaze dur 8+ | Back refix. |
| d_T Group A | 0,12 | 0,10 | 0,04 | 0,07 | 0,43 |
| d_T Group B | 0,50 | 0,14 | 0,11 | 0,12 | 0,09 |
| d_T Group C | 0,30 | 0,02 | 0,23 | 0,16 | 0,04 |
| | No fix. words | Mult. fix. words | Gaze dur 6-7 | Gaze dur 8+ | Back refix. |
| d_D Group A | 0,21 | 0,21 | 0,31 | 0,37 | 0,52 |
| d_D Group B | 0,02 | 0,13 | 0,09 | 0,26 | 0,27 |
| d_D Group C | 0,17 | 0,08 | 0,38 | 0,23 | 0,34 |

Table 4: The differences D, which are the absolute differences between typical and dyslexic parameter values

| | Differences D | | | | | | |
|---------|---------------|---------|----------------|---------------|-----------|-----------|-----------|
| | Reading speed | Fix. no | Mean fix. dur. | Mean sac. len | 25% perc. | 50% perc. | 75% perc. |
| Group A | 0,06 | 135,21 | 58,36 | 36,85 | 18,62 | 32,28 | 54,47 |
| Group B | 0,31 | 121,86 | 41,16 | 46,54 | 28,45 | 44,76 | 66,07 |
| Group C | 0,19 | 132,73 | 38,03 | 55,72 | 42,57 | 57,60 | 68,38 |

Table 4: continue

| | Differences D | | | | |
|---------|---------------|------------------|--------------|-------------|----------------|
| | No fix. words | Mult. fix. words | Gaze dur 6-7 | Gaze dur 8+ | Back refix. |
| Group A | 8,85 | 21,50 | 310,29 | 471,95 | 19,15 |
| Group B | 14,36 | 24,76 | 164,35 | 238,05 | 22,95 |
| Group C | 23,60 | 37,39 | 148,22 | 240,31 | 21,08 |