**Supplemental Material for**

**Stable preview difficulty effects in reading with an improved variant of the boundary paradigm**

Sarah Risse and Stefan Seelig

University of Potsdam, Germany

Table S1

Control analysis of orthographic overlap. *Linear mixed-effects models for a reduced set of fixation durations on the target word n+1 containing only the preview change conditions. As fixed effects, the preview difficulty contrast (c1[pvD]), the letter similarity (lsim: centered on zero) and their interaction were estimated. Significant estimates in bold. See text for more details.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | FFD | SFD | GZD | TVT |
|  | *bs* | *ts* | *bs* | *ts* | *bs* | *ts* | *bs* | *ts* |
| c1 [pvD] |  .08  |  **5.00** |  .10 |  **6.77** |  .09 |  **6.20** |  .05 |  **2.85** |
| lsim |  -.02 |  -.29 |  -.002 |  -.03 |  .03 |  .39 |  .07 |  .92 |
| c1\*lsim |  .07 |  .67 |  -.004 |  -.05 |  -.05 |  -.54 |  -.11 |  -1.10 |
|  |  |  |  |  |  |  |  |  |

Table S2

Pretarget Word n Quantile Regression*. See main text for more details.*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Intercept | Preview difficulty (c1) | Preview validity (c2) |
| Quantiles | Estimate (*b*) | *t*-value | Estimate (*b*) | *t*-value | Estimate (*b*) | *t*-value |
| .01-.1 |  46 |  **5.53** |  21.5 |   **3.38** |  8.2 |  1.10 |
| .11-.2 | 153 | **121.30** |  -.5 |  -.32 |  -.5 |  -.57 |
| .21-.3 | 173 | **148.73** | 1.0 |  .68 | -1.3 | -1.69 |
| .31-.4 | 191 | **153.39** | 2.5 | 1.67 | -1.7 | -1.30 |
| .41-.5 | 207 | **145.77** | 2.5 | 1.33 | -2.2 | **-2.35** |
| .51-.6 | 225 | **158.64** | 2.0 | 1.21 | -1.3 | -1.28 |
| .61-.7 | 243 | **160.70** | 1.5 |  .84 | -1.8 | -1.66 |
| .71-.8 | 264 | **141.01** |  .5 |  .23 | -1.2 |  -.84 |
| .81-.9 | 296 | **103.84** |  .0 |  .00 |  -.7 |  -.31 |
| .91-1 | 359 |  **75.29** | -.5 |  -.08 | -2.5 |  -.85 |

Table S3

Target Word n+1 Quantile Regression*. See main text for more details.*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Intercept | Preview difficulty (c1) | Preview validity (c2) |
| Quantiles | Estimate (*b*) | *t*-value | Estimate (*b*) | *t*-value | Estimate (*b*) | *t*-value |
| .01-.1 | 105 |  **13.14** |  14 | 1.56 | 0 |  .00 |
| .11-.2 | 169 | **103.21** | 5 | **2.10** | -2 | -1.72 |
| .21-.3 | 186 | **123.37** | 6 | **2.80** | -4 | **-4.25** |
| .31-.4 | 204 | **139.59** | 8 | **4.35** | -6 | **-6.04** |
| .41-.5 | 221 | **133.05** | 9 | **3.82** | -7 | **-6.18** |
| .51-.6 | 238 | **123.03** |  10 | **3.93** | -8 | **-6.65** |
| .61-.7 | 259 | **118.47** |  16 | **5.38** |  -11 | **-7.86** |
| .71-.8 | 283 | **114.94** |  17 | **5.03** |  -13 | **-8.66** |
| .81-.9 | 315 | **112.87** |  14 | **3.69** |  -17 |  **-10.07** |
| .91-1 | 363 |  **77.17** |  18 | **2.99** |  -21 | **-6.45** |