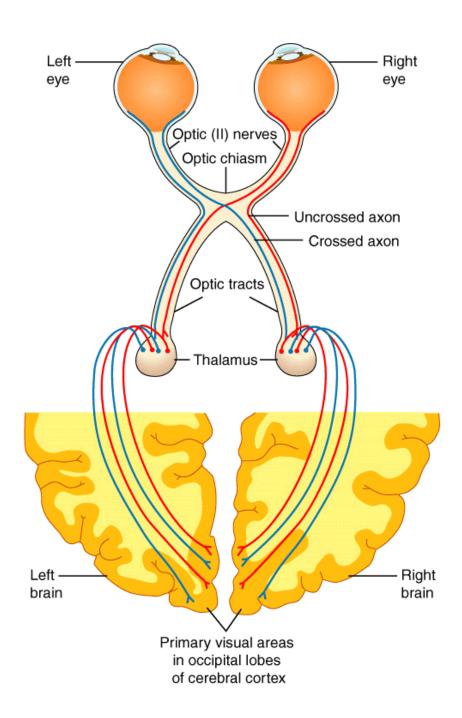
Dyslexia

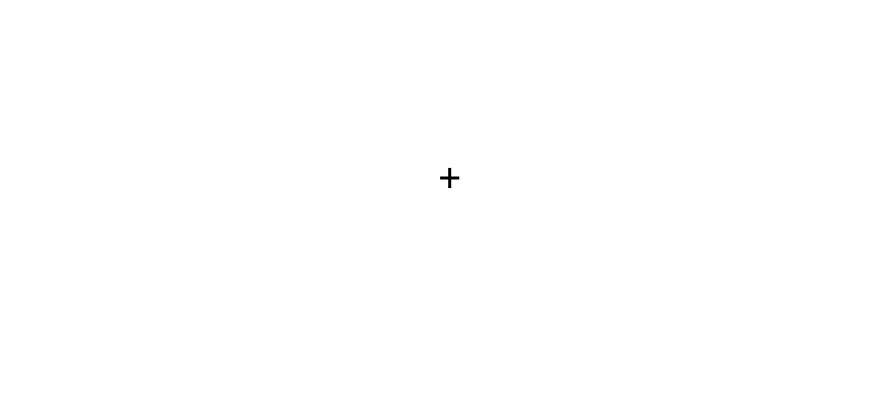
Kevin Larson

Microsoft Advanced Reading Technologies

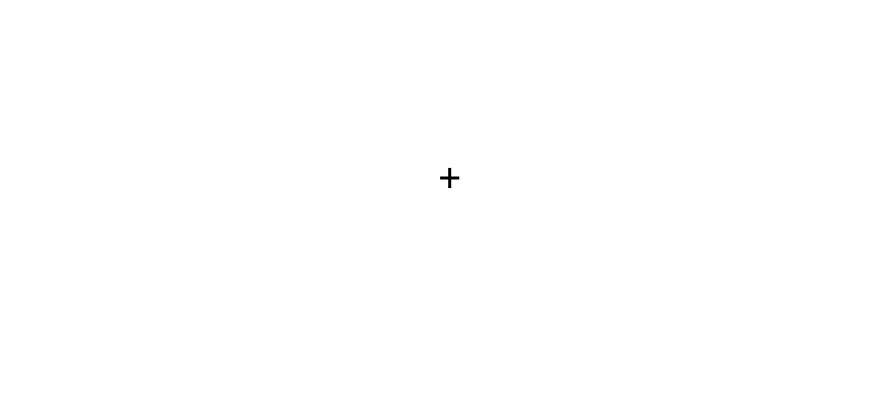
Reading = Decoding × Comprehension

Samuel Orton, 1925

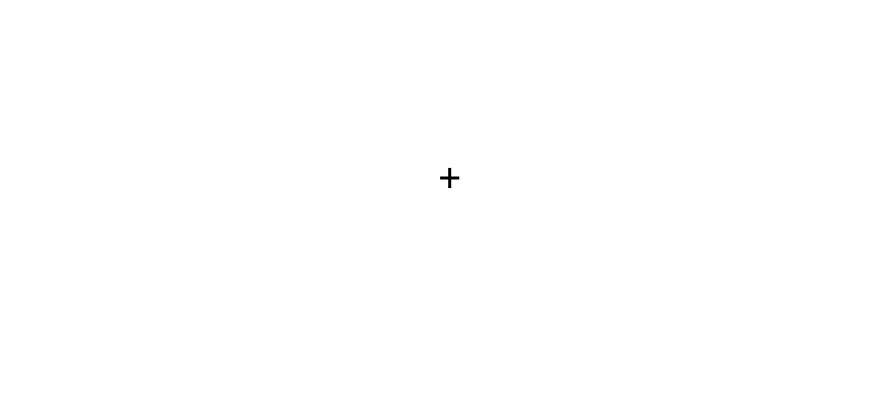




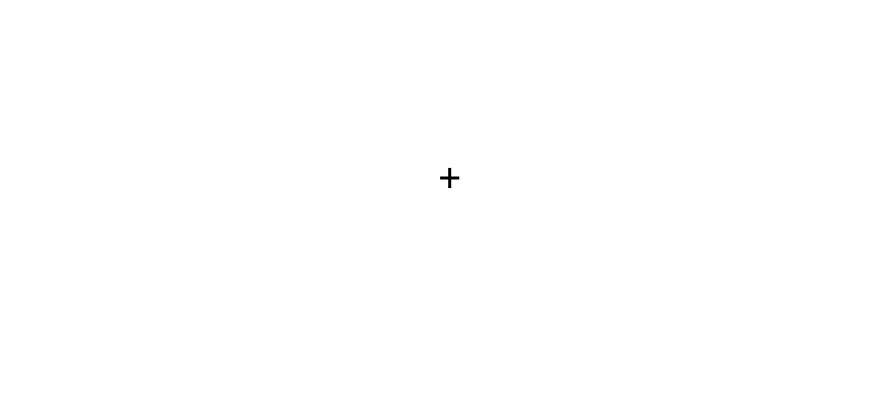
b



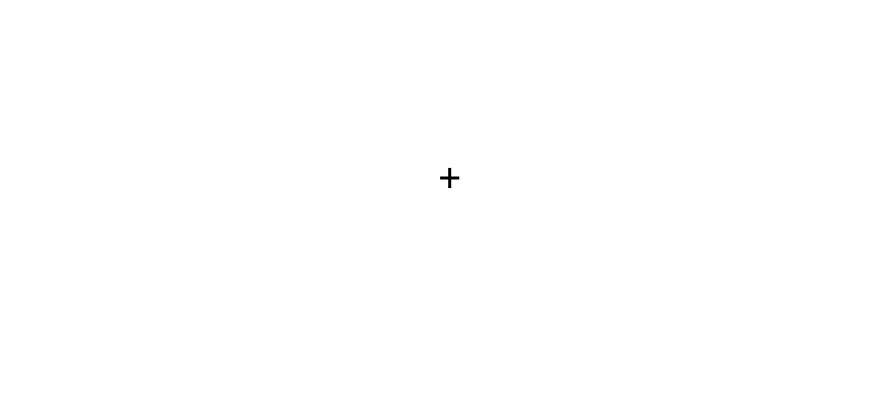
p



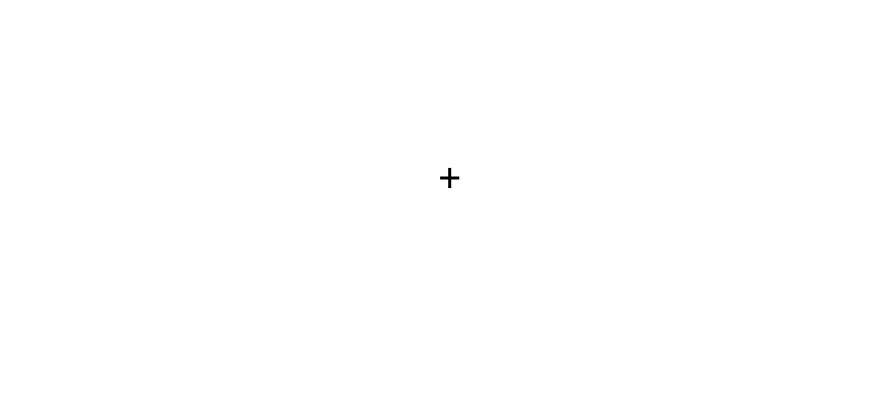
d



p



b



d

- •Name the letters b, d, p, q
- •Write the letters b, d, p, q

3 skills for decoding

- 1. Fast letter identification
- 2.Phonemic awareness
- 3. Letter to sound correspondence

Phonemic Awareness

- Rhyming
- •Initial & final phoneme
- Blending
- Segmentation

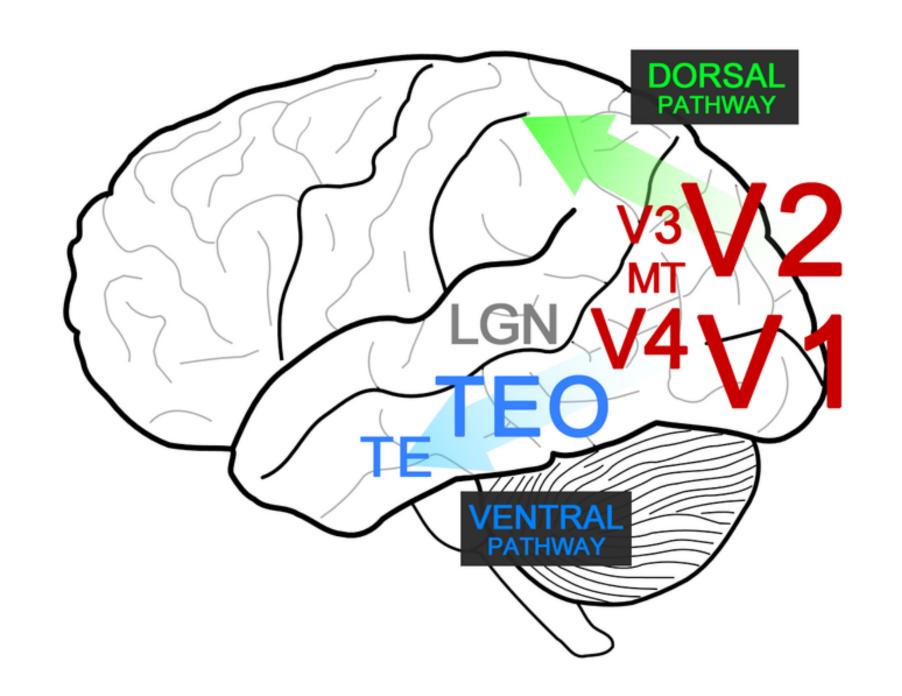
Treating Dyslexia

- Many, many studies have shown that direct instruction in phonemic awareness and letter-tosound correspondence is the most effective reading program for typical children
- •Blachman (1987) showed a 21% improvement in reading scores after teaching phonemic awareness to dyslexic children

Dyslexia is a problem in learning to recognize printed words at a level appropriate for a child's age

Snowling and Hulme, 2009

- Phonology & rapid naming: Wolf
- Phonology & orthography: Coltheart
- Phonology & (rapid naming and/or lexical deficit): Stanovich
- Magnocellular deficit



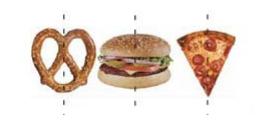


arm

















A mother and her son are leaving home in the morning. She is taking him to visit his father's workplace. The father is a laboratory technician at Victoria Memorial Hospital. While crossing the road, the boy is caught in a terrible accident, which critically injures him.

Conclusions

- •Dyslexia is not letter mirroring. The font Dyslexie will not help.
- •There is very strong evidence that phonological training helps.
- •We're still looking for a deeper understanding of how dyslexia differs from other reading problems.