Sight Words:

Neuroscience of Word Recognition, and How Tech Helps

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How did you get here this morning?
Recognition

The visual cortex is a recognition machine. In the next 10 slides:

- don’t say anything if you see a picture
- quickly say the first word that comes to mind if you see letters

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invertebrate
inveterate
Did you notice that invertebrate was misspelled?
Was invertebrate misspelled?
obstreperous
observence
obstreperous

inveterate
Was observance was misspelled?

36 Votes

1

2
t_sk
Did you say ___?

38 Votes
Priming

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folk
What is the white of an egg?
"There ___ enough hours in the day"
Reading: A psycholinguistic guessing game

— Kenneth Goodman, 1967

“Efficient reading does not result from precise perception and identification of all the elements.”
**Priming**: useful in all language (incl. reading)

**Guessing**: not very useful in learning to read
Phonemic recoding is informed guessing

Bozhou
She interviewed a senior _____ from the previous administration.
Match Doshagya

41 Votes

1

2

3

4
Match

42 Votes

1
2
3
4
a “Whole Language” flaw

training the emergent reader to be primed

a “phonemic recoding” affordance

leading the emergent reader towards an accurate mapping
how tech helps

1. providing the emergent reader with an accurate mapping
2. immersing the emergent reader in familiar text
Familiar Text ≡ Sight Words
Using a Sight Word Measure to Predict Reading Fluency Problems in Grades 1 to 3

— Darrell Morris and Jan Perney — [link](#)

After considering the relationships between (a) reading fluency and reading rate and (b) reading rate and sight vocabulary, this study addressed a very practical question. Can a cut score on a sight vocabulary task (1-min) predict level of reading fluency 4+ months into the future?

The present study was built on three premises:

1. Fluency is an important component of early reading development.
2. Rate (wpm) is a useful proxy for the more complicated construct of fluency.
3. Sight vocabulary is a good predictor of reading rate.

In this study, we tested the third premise.
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Sara’s IPA Study

Sara and the Pooka
participate in a study on how we’ve learned to read

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l3rn tu ríd
AGAIN

For more information—
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text: 801-888-2585

a study in computer aided learning through immersive reading of an unfamiliar orthography
Further Reading