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Why?

Dyslexia

Universal:
neuro-cognitive disorder

Frequent:
10-17% U.S. population

Difficulties in language

Orthography

— Orthographically similar words

Morphology

— Derivational errors

Lexicon & Syntax

- New words
- Pseudo-words and non-words
- Less frequent words
- Long words
- Substitutions of functional words
- Confusions of small words

Phonology

- Irregular words
- Homophonic words or pseudo homophonic words
- Foreign words



What?

A mobile game with language exercises for children with dyslexia

Five kinds of exercises:
Letter Substitution, Omission or Insertion Derivation and Sentence Separation

1 Exercise Design

2 Word Selection

3 Word Modification

4 Level Design

5 Text Layout

6 Implementation

7 Evaluation

Pedagogical methods
Cognitive Neuroscience

Linguistic Criteria

Error Analysis (Dyslexic Texts)

Corpora & Resources (Frequency Length Neighbors)

User Testing (Eye-tracking)

Android 
iOS (iPad & iPhone) 

Formative & Summative

How?

Sources of Knowledge