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## Al INNOVATIONS

IN DYSLEXIA SUPPORT


## $\left.D^{y s}\right|^{\partial} x^{i \beta}$



## DYSLEXIA COMPENSATING

The challenge

| New Document $\times$ | + |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathrm{B} \quad i \quad \underline{U}$ | $\underset{\sim}{x}$ | $x_{2}$ | $x^{2}$ | Arial |

The quick brown fox, jumped over the lazy dog.


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## DYSLEXIA COMPENSATING

## The solution



| 0 | The |
| :--- | :--- |
| 4 | quick |
| 10 | brown |
| 16 | fox |
| 20 | jumped |
| 27 | over |
| 32 | the |
| 36 | lazy |
| 41 | dog |

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## DYSLEXIA COMPENSATING

Next step


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## OUTCOMES

## Processing

Complexity
Introduction


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## IS IT FIXED NOW?

## Unified solution

 Personal toolset

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## CONCLUSIONS

## Al for stakeholders



Expected impact of AI


WHAT IS DYSLEXIA?

$$
W_{h} e^{t} i^{s} \quad b^{y_{s}^{\prime}} a_{x} \mathrm{i}^{\mathrm{e}}
$$

Affects Reading Comprehension
Is not related to intelligence in any way

How can we help unlock someone's full potential?

## WEB2SPEECH

## Web2Speech

- Browser Extension
- Reads webpages to improve reading comprehension
- Extra support through dictionaries, markers,...

Navigation is the most complex task

- Finding words quickly is crucial
- Some pages can be very complex
- HTML, it's often more of a guideline


## Easy for a human, quite hard for a machine

## SOLUTION

## Natural Language Processing to the rescue

- NLP based system creates a text map
- Text map allows quick retrieval of words and their positions
- Browser based solution makes it cheap to operate
- Lightweight so users don't have to download lots of data


## RESULTS



## RESULTS



## RESULTS



## WEB2SPEECH

## Results

Fast \& efficient navigation in websites

- Also usable in the UI

Faster responses provide better reading comprehension
The Future

- Add Language detection
- Text complexity evaluation
- Sentiment Analysis

NLP system can be plugged into our other applications
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## CONCLUSION

Al is of immediate benefit to our users

- Faster, more efficient applications
- More possibilities

Al is of immediate benefit to us

- Happy users
- Better focus on user's needs


## THANK YOU



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