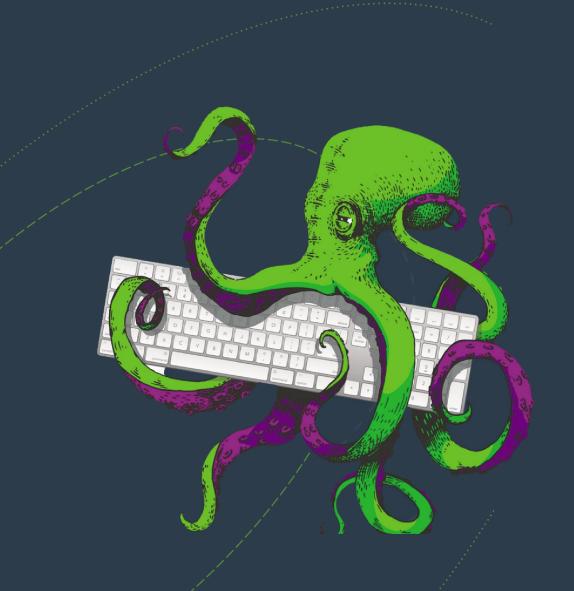
ALINNOVATIONS

IN DYSLEXIA SUPPORT

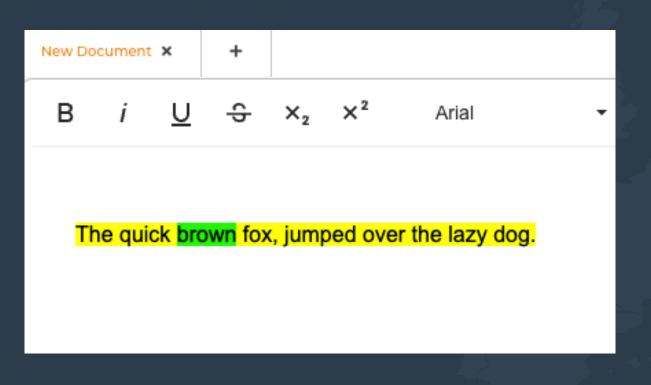


Dyslajie



DYSLEXIA COMPENSATING

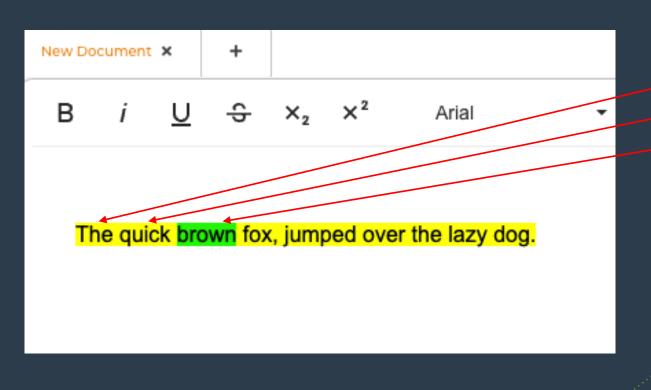
The challenge



```
<asgard-tab _nghost-fny-c160 class="ng-star-inserted">
 ▼<div _ngcontent-fny-c160 asgardpaneindex class="asgard-tab active-tab">
      ▼<asgard-file-editor _ngcontent-fny-c160 class="ng-star-inserted" style="pointer-event
        s: all;">
         ▼ <div class="froala-editor fr-box fr-basic fr-top" editorid="7acb6966-de57-baba-d326-
             a3b930a584f6" role="application"> flex
             > < div class="fr-toolbar fr-desktop fr-top fr-basic fr-sticky-off" data-sticky-
                 offset="true" data-top="0px" data-bottom="auto" style="top: 0px;">.... </div>
                 <div class="fr-sticky-dummy" style="height: 50px;"></div>
              ▼ <div class="fr-wrapper" dir="auto" style="height: 100%; overflow: auto;">
                 ▼<iframe src="about:blank" frameborder="0" class="fr-iframe" style="height: 90px;
                      ▼#document (https://alinea.sensotec.be/)
                            <!DOCTYPE html>
                             ▶ <head> ··· </head>
                             ▼<body class="fr-view" dir="auto" contenteditable="true" aria-disabled="fal
                                  se" spellcheck="false">
                                   The quick brown fox, jumped over the lazy dog.
                                  </body>
                             </html>
                     <span class="fr-placeholder" style="font-size: 16px; line-height: normal; margin</pre>
                     -top: 16px; padding-top: 20px; padding-left: 20px; margin-left: 0px; padding-rig
                    ht: 20px; margin-right: 0px; text-align: start;">Type something</span>
                 </div>
              ▼ <div class="fr-second-toolbar">
                   ::after
                 </div>
             </div>
         </asgard-file-editor>
         <!--->
      ▼ <div _ngcontent-fny-c160>
         ▼<asgard-tab-bottom-toolbar _ngcontent-fny-c160>
             ▼<footer class="as-footer as-wrapper ng-star-inserted">
                 ▼<nav class="bottom-nav"> flex
                     ▼ flex
                         ▶ I asgardtooltip="BOTTOMBAR.PDF_THUMBNAILS" class="mat-tooltip-trigger hide" class="mat-toolt
```

DYSLEXIA COMPENSATING

The solution



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

DYSLEXIA COMPENSATING

Next step







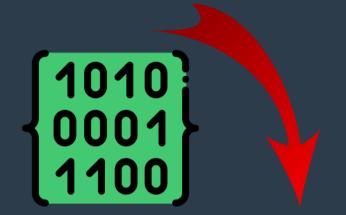
OUTCOMES

Processing

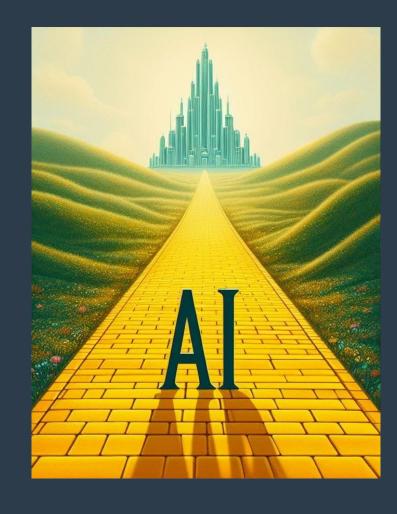


Complexity





Introduction



 $CORTL \equiv X \mid Allkind$

IS IT FIXED NOW?

Unified solution

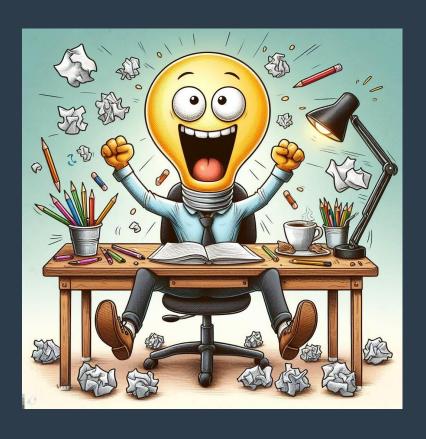


Personal toolset



CONCLUSIONS

Al for stakeholders



Expected impact of Al



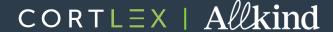
WHAT IS DYSLEXIA?

$$W_h e^t i^S b Y_S a_X^i e$$
?

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

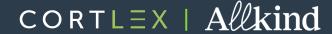
- Finding words quickly is crucial
- Some pages can be very complex
- HTML, it's often more of a guideline

Easy for a human, quite hard for a machine

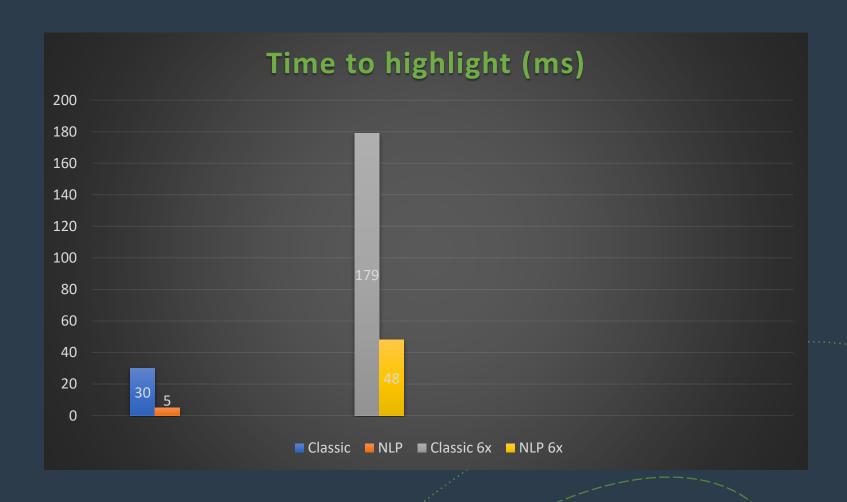
SOLUTION

Natural Language Processing to the rescue

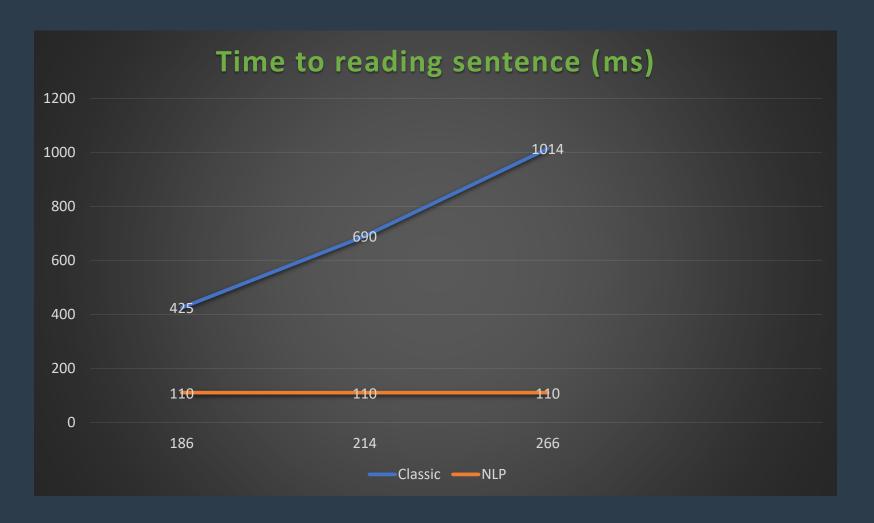
- NLP based system creates a text map
- Text map allows quick retrieval of words and their positions
- Browser based solution makes it cheap to operate
- Lightweight so users don't have to download lots of data



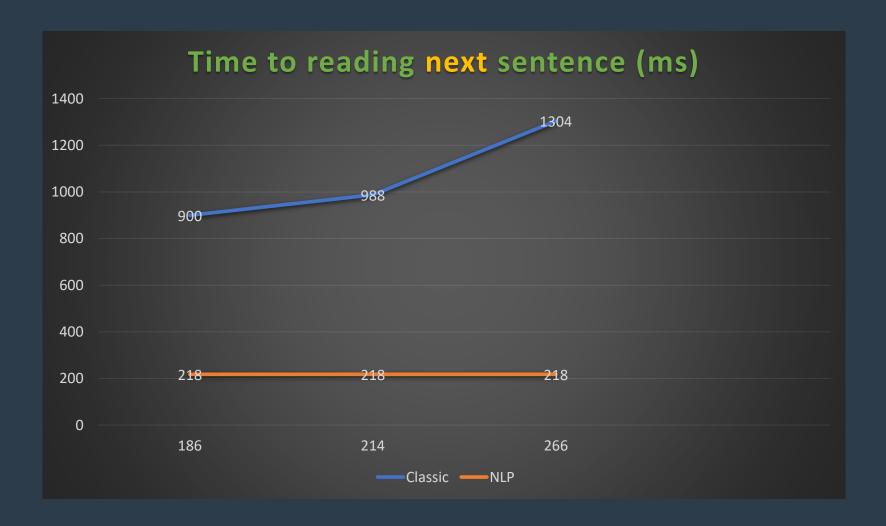
RESULTS



RESULTS



RESULTS



WEB2SPEECH

Results

Fast & efficient navigation in websites

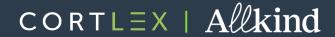
Also usable in the UI

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



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







