

Web Design for Dyslexia

By Maja Benke

About Me

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Structure

- What is Dyslexia
- Characteristics and Particularities of Dyslexia
- Helping Tools
- Web Design for Dyslexia
- Content Creation for Dyslexia
- Developing for Dyslexia
- Collaborate with Dyslexic Colleagues and Contributor
- Sources and Further Information

A *lly*



A *ccessibilit y*

1. What is Dyslexia

1. What is Dyslexia

What is Dyslexia

- Learning Disability
- Cognitive Spectrum
- Intelligence is not different than the average population
- Dyslexia does not grow away
- Analphabetism ≠ Dyslexia

1. What is Dyslexia

Difficulties

- Transmission Spoken Word into Writing
- Processing of Writing into Words
- Processing in the Brain is Different
- Dyslexia is a Spectrum

1. What is Dyslexia

Some are:

Sensible on High Contrast

Bad Short Time Memory

Creative

Good at Logical and Conceptual Thinking

9 - 12%

Of the Population are Dyslexic

> 80%

With Learning Disability have Dyslexia

2. Characteristics and Particularities of Dyslexia

2. Characteristics and Particularities of Dyslexia Problems 🙄

- Reading: Processing of Text
- Writing (dictated) Text
- Words are often spelled differently
- Words are easily overlooked. Especially problematic with "not", „none“
- Double negations are difficult when reading
- Shopping Letters and Slip in Lines

2. Characteristics and Particularities of Dyslexia Problems 🙄 - Simulation

← → ↺

alphagov.github.io/accessibility-personas/simone/

☆ S 🌙 + 📄 {S} DF 🔍 👤 ⋮

Apps Translate Using persona pro... Setting up person... Setting up person... Setting up person... Accessibility Pers...

Aesitiiscbby Penasros BTEA Paonress Stuep

Somine

Aoubt the pnrseoa

- 41 year old office maganer
- dlisexyc
- uses strfwaoe wichh hhliggths txet as it reads it out

More about the [prosenas on GOV.UK](#) and [how to set it up](#)

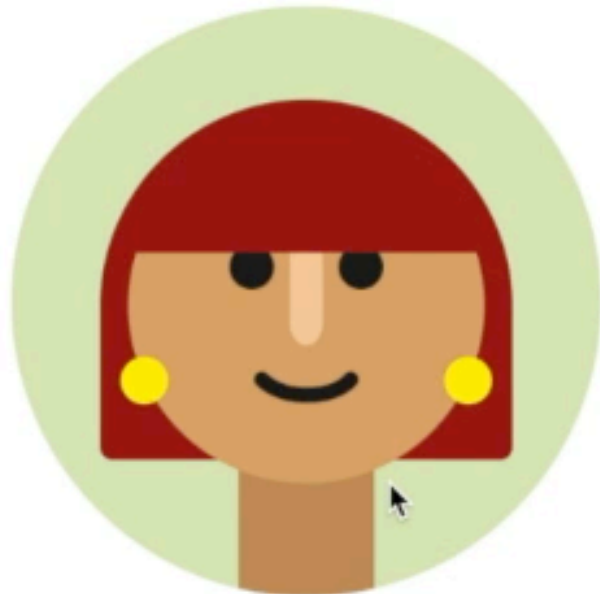
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2. Characteristics and Particularities of Dyslexia Problems 🙄

Problems can depends on:

- the form of the day
- energy and stress level
- environment
- staying focused while reading.
especially with animations etc.

2. Characteristics and Particularities of Dyslexia Problems 🙄

- Every dyslexic person is different
- Different problems, different solutions
- Different intensities
- Its a spectrum

2. Characteristics and Particularities of Dyslexia

Positive Sites 😊

- brain structured differently, processes things differently
- many dyslexics have strengths in other areas like
 - logical and conceptual thinking
 - mathematics
 - creativity
 - etc.

3. Helping Tools

3. Helping Tools

Paper

- colored foil to reduce the contrast
- ruler or second sheet to not slip in the line
- reading stick

3. Helping Tools

Paper

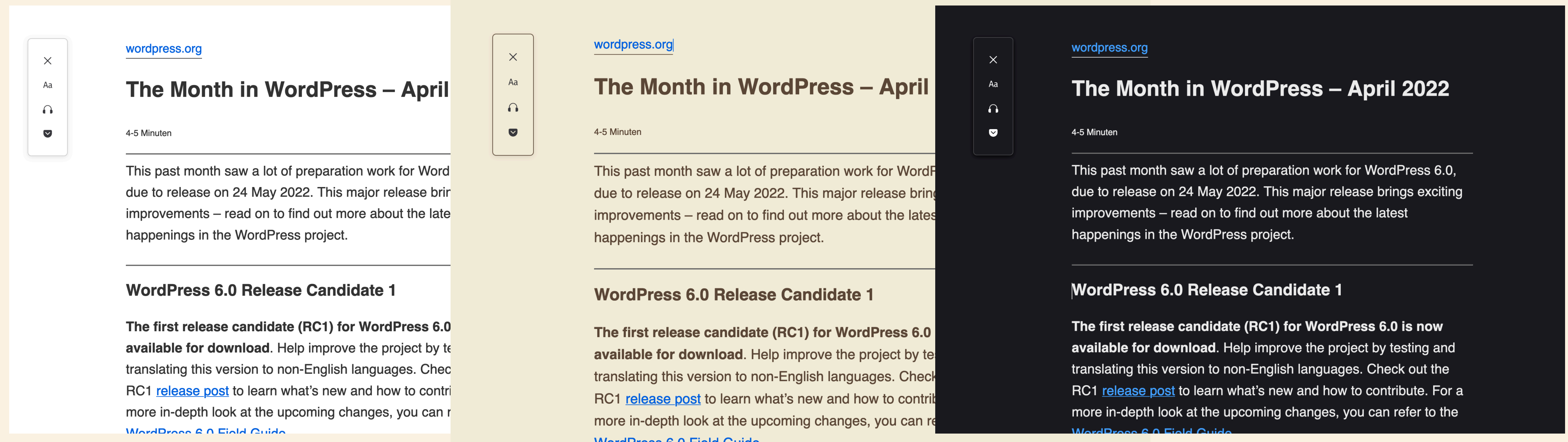
- colored foil
- ruler or scale
- reading scale



3. Helping Tools

Digital

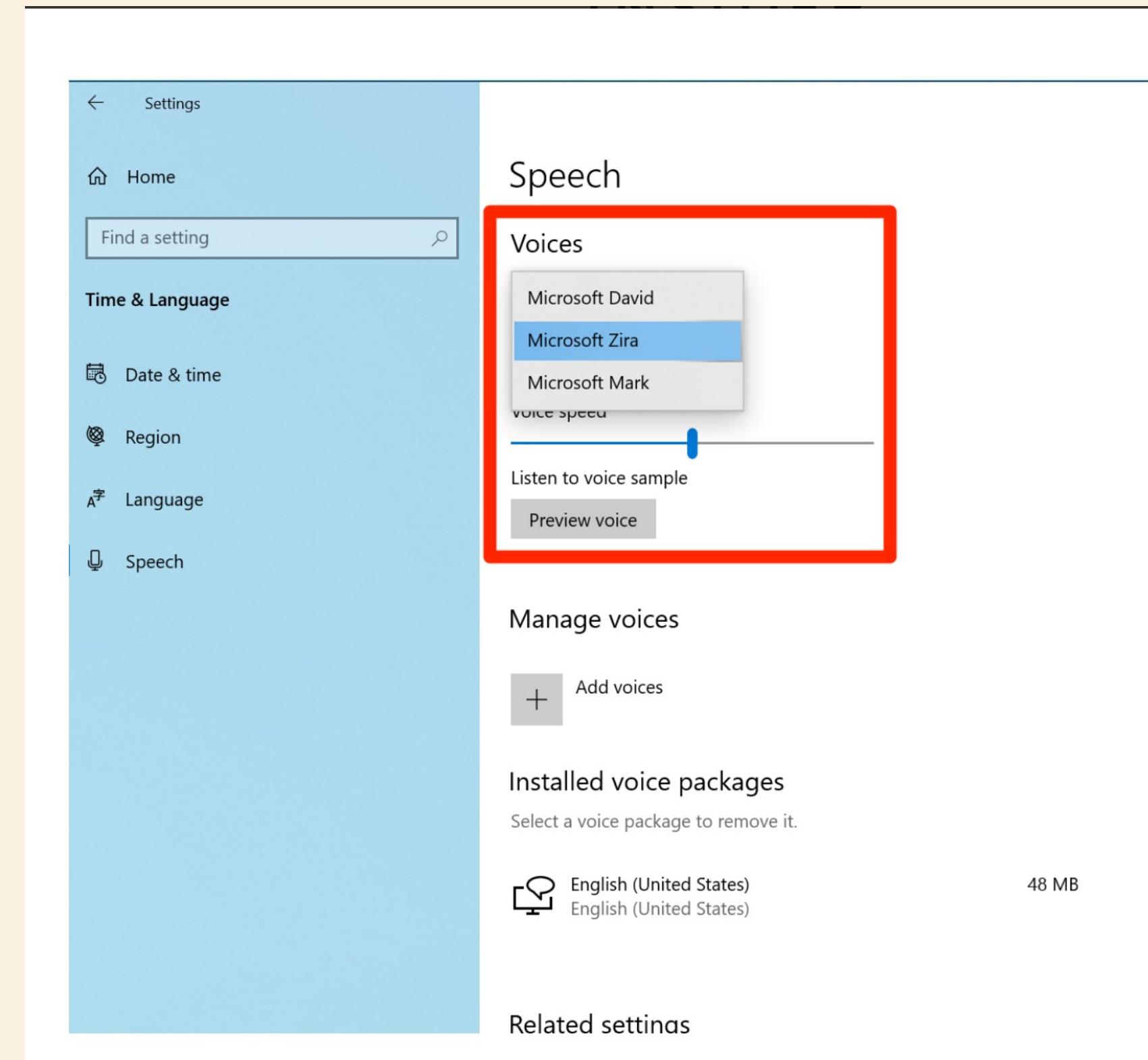
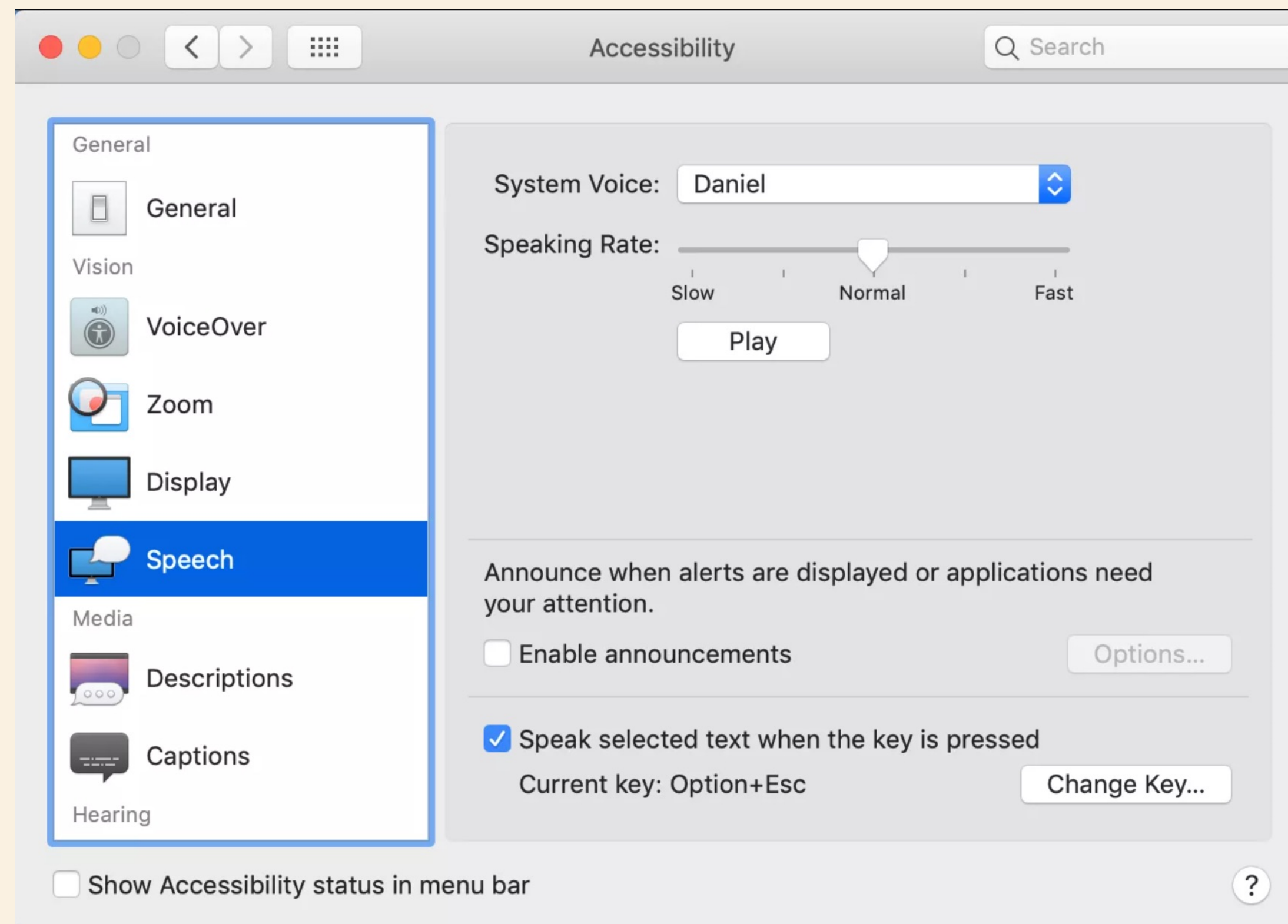
- Light Mode / Sepia Mode / Dark Mode



3. Helping Tools

Digital

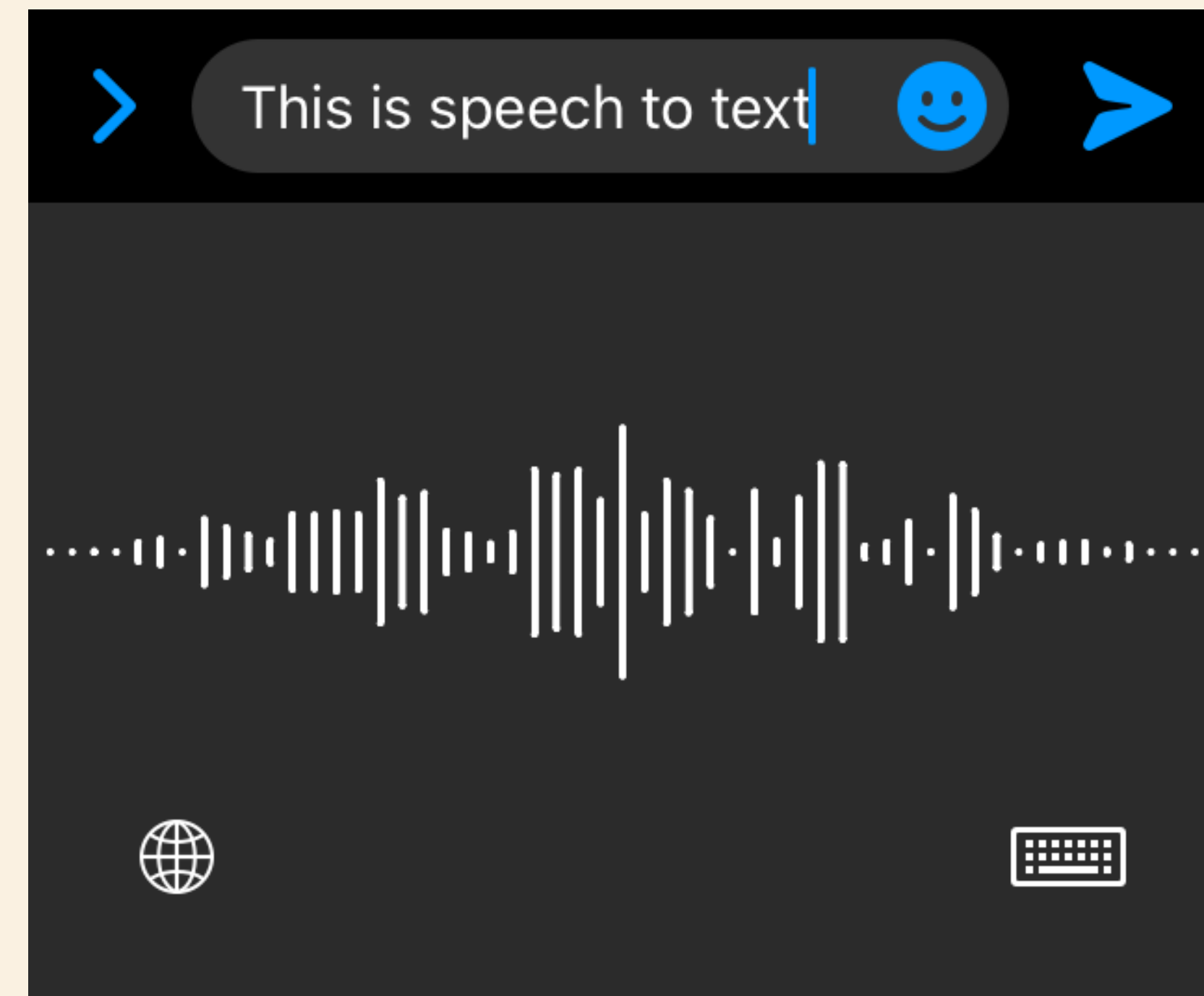
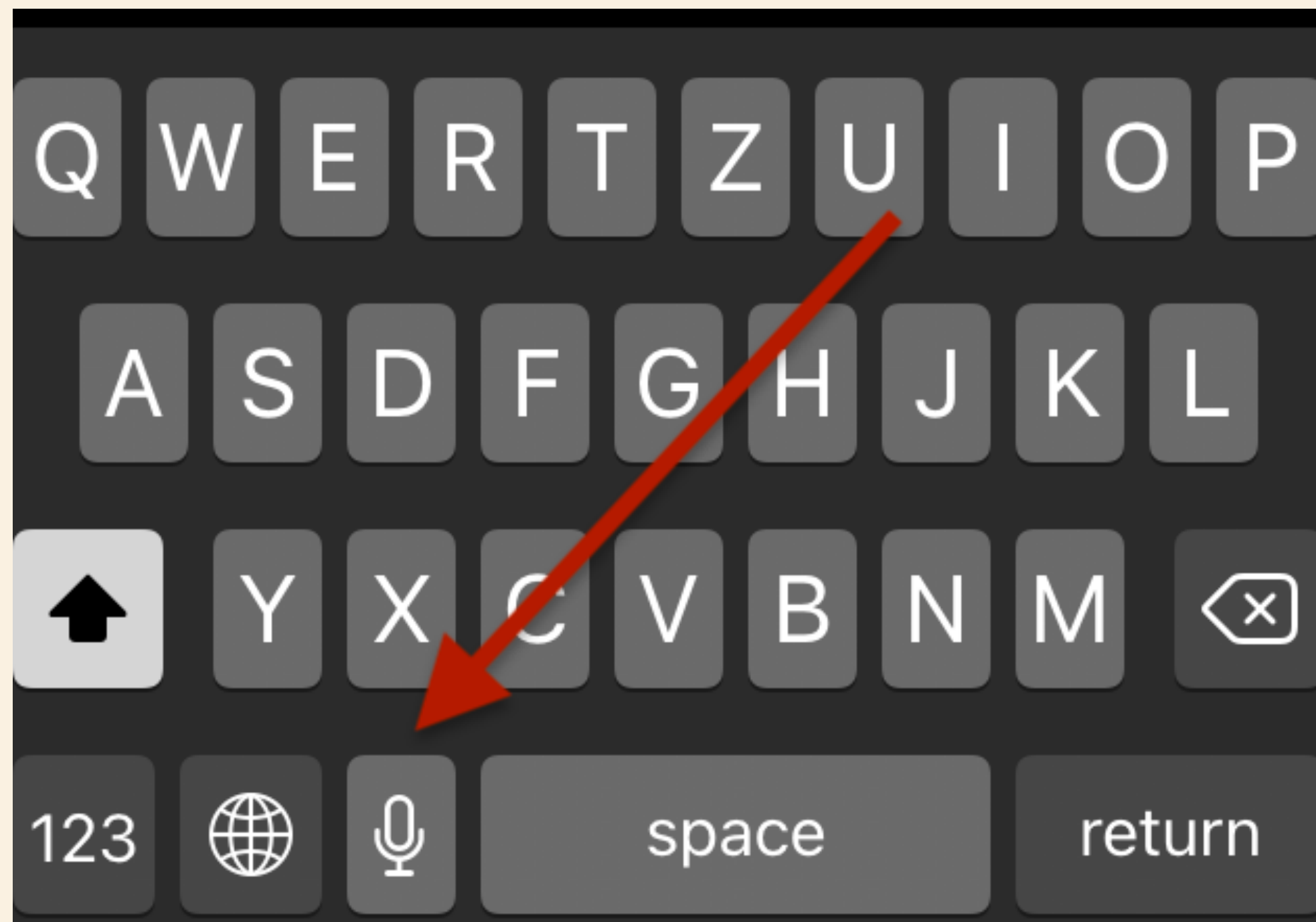
- speech output for text



3. Helping Tools

Digital

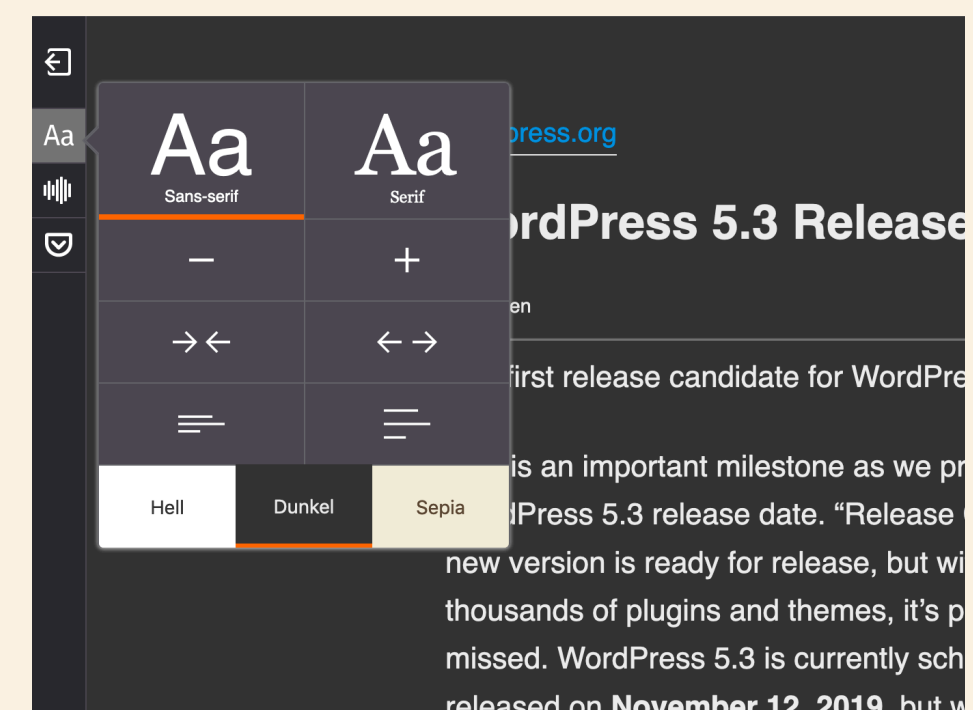
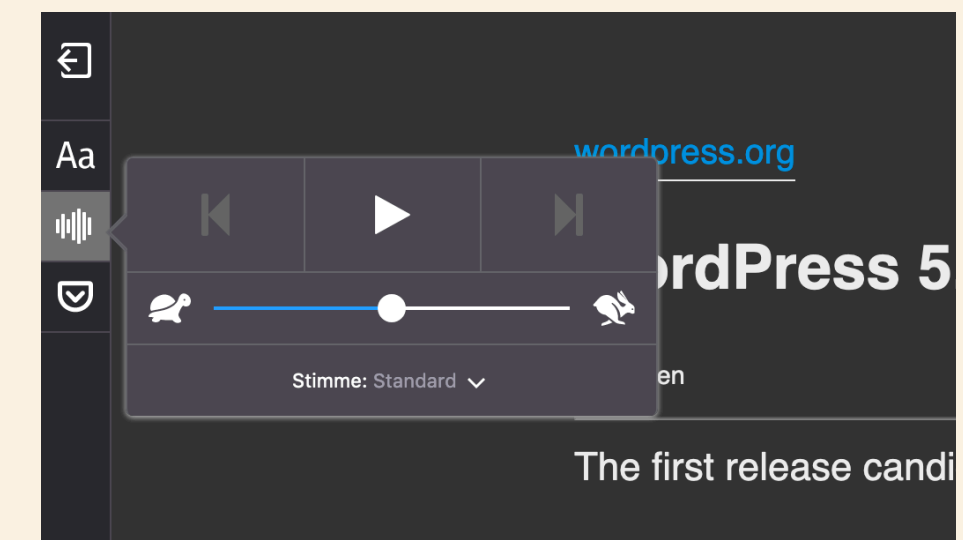
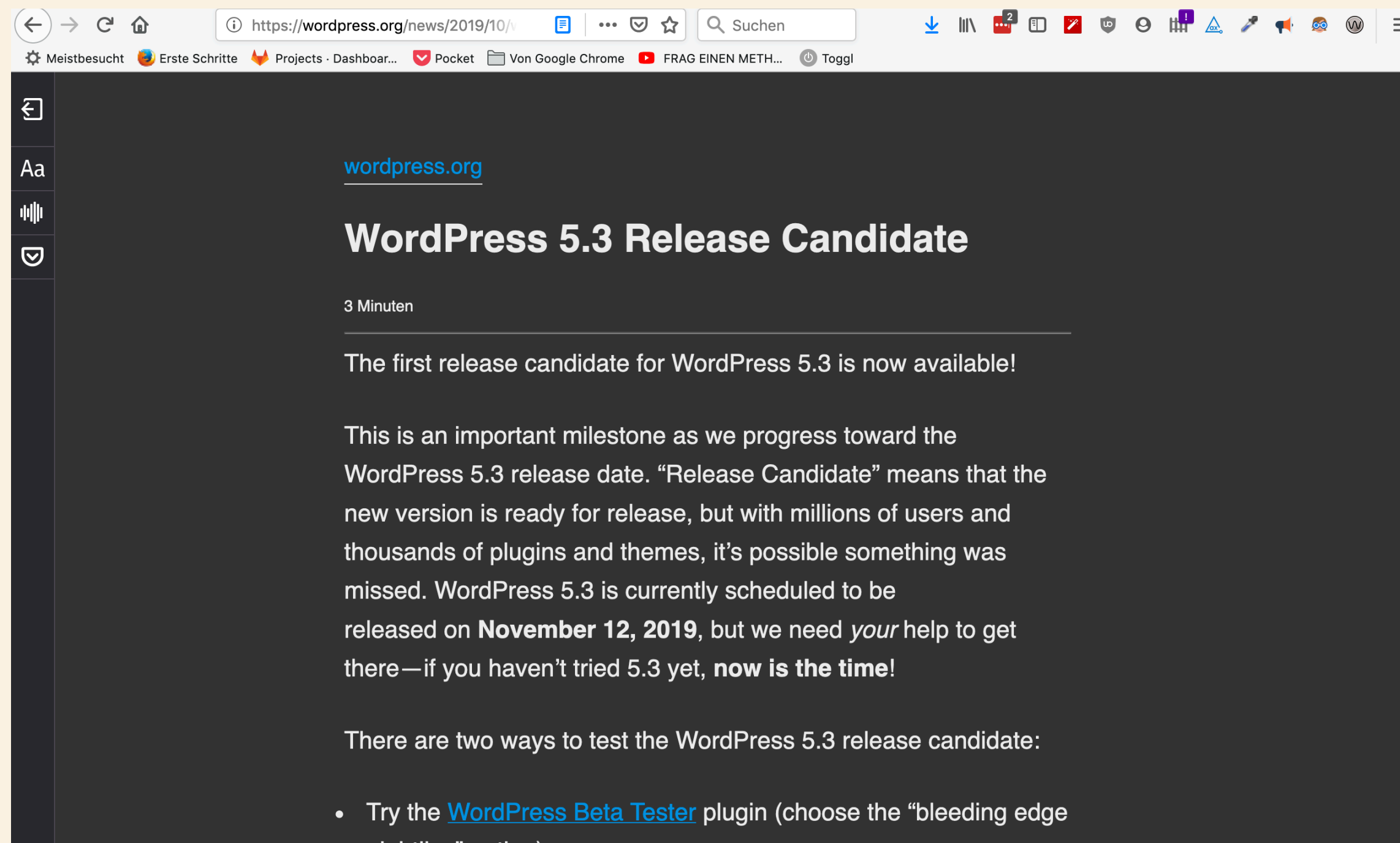
- speech to text



3. Helping Tools

Digital

- Firefox Reader Mode



3. Helping Tools

Digital

- Browser Addons that can Change Fonts, Size, Width and Colors
 - Dyslexia Formatter
 - Read a Loud
 - ...

3. Helping Tools

Digital

- Text Shortcuts in Device Settings
 - :br = Best regards

3. Helping Tools

Digital

Not Everyone is using a Tool

4. Web Design for Dyslexia

4. Web Design for Dyslexia

Fonts

Underline only Links

NO UPPERCASE - IS HARD TO

No Italic - is hard to read

Carefully with **Bold**

Font size > 16px

Line Height > 1.5

Font Styles

Readable Font-Family

Font Weight > Regular / 400

4. Web Design for Dyslexia

Font Families

- Use Bold, Italic & other Text Styles (like Color) carefully.
This can be irritating and distracting when reading
- Make sure, that the follow letters are easy to tell apart
 - I + l + 1
 - Ø + O
 - g + q

4. Web Design for Dyslexia

Font Families for Dyslexia

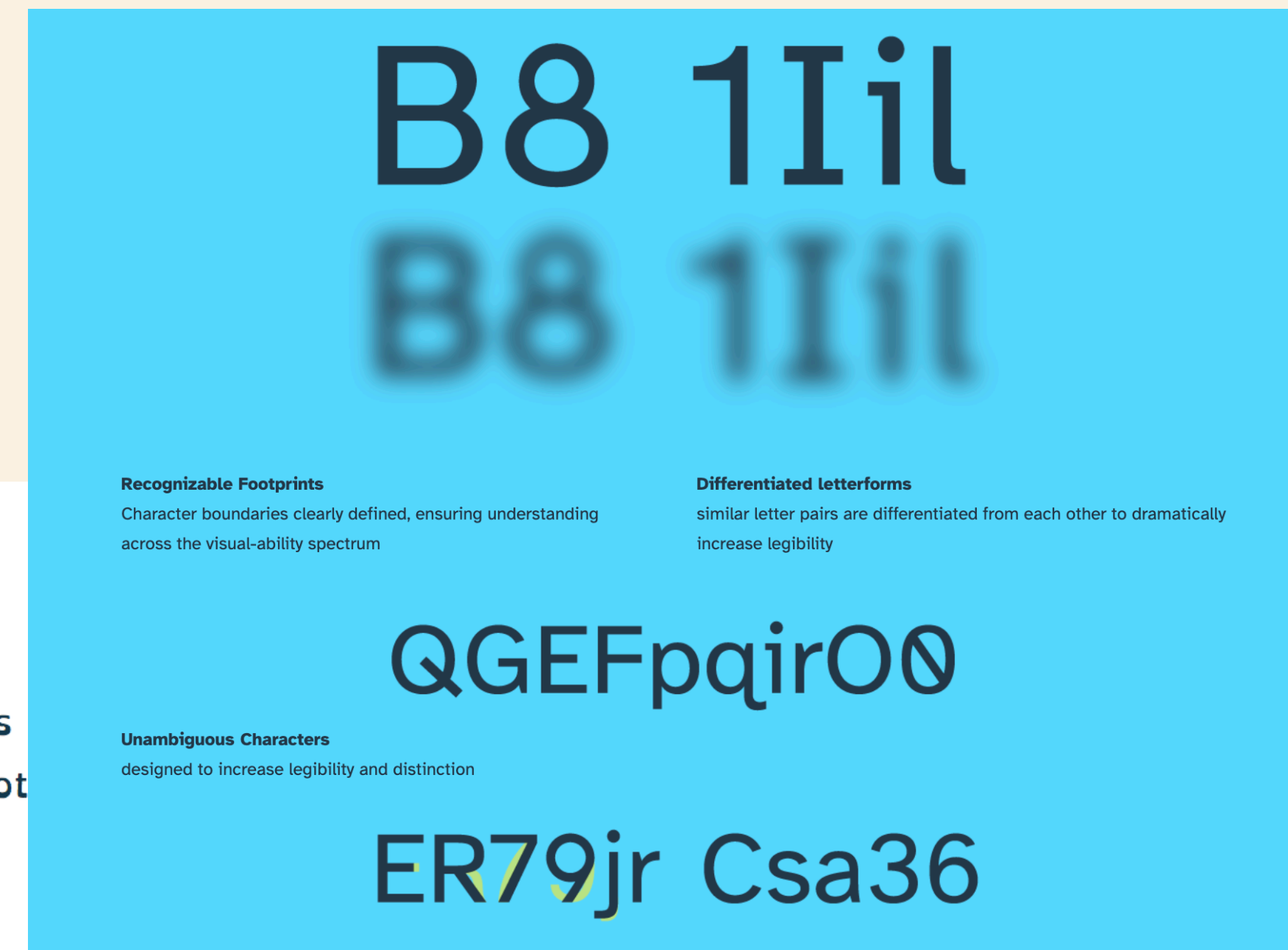
- Open Dyslexic
- Atkinson Hyperlegible

A typeface for Dyslexia:

OpenDyslexic is a typeface designed against some common symptoms of dyslexia. If you like the way you are able to read this page, and others, then this typeface is for you!

OpenDyslexic is free to use: OpenDyslexic 3 uses the SIL-OFL license, giving you freedom to use it for personal use, business use, education, commercial, books, ebook readers, applications, websites, and any other project or purpose you need.

OpenDyslexic is not supposed to be a cure, a complete solution, or something you should apply uniformly to everyone: it was intended to address: contrast/blindness, letter confusion or rotation, and crowding.



4. Web Design for Dyslexia

Layout

- Limit content area. between 400 and 700px is optimal

wordpress.org

WordPress 6.0 Release Candidate 1

5-6 Minuten

The first release candidate (RC1) for WordPress 6.0 is now available!

This is an important milestone on the 6.0 release cycle journey. “Release Candidate” means that this version of WordPress is ready for release! Before the official release date, time is set aside for the community to perform final reviews and help test. Since the WordPress ecosystem includes thousands of plugins and themes, it is important that everyone within the WordPress community check to see if anything was missed along the way. That means the project would love your help.

WordPress 6.0 is planned for official release on May 24th, 2022, three weeks from today.

This version of the WordPress software is under development. Please do not install, run, and test this version of WordPress on a production or mission-critical website. Instead, it is recommended that you RC1 on a test server and site.

wordpress.org

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4. Web Design for Dyslexia

Layout

- Use white space generously
- Loosen up text, no text deserts

4. Web Design for Dyslexia

Layout

The WordPress project uses Slack as its main real-time communication platform, replacing all previous communication platforms such as IRC and Skype. When compiling a list of things people liked about our previous communication methods, it was obvious that Slack was all of that and more, including: Open for everyone, Friendly user interface, Easy asynchronous conversation, iOS and Android apps, Powerful customization abilities, Excellent search. WordPress has historically used IRC on [Freenode](#) for its real-time communication, and the [#wordpress](#) support IRC channel will continue on. Slack communication is used for contributing to the WordPress project, be it code, design, documentation, etc. You can join the WordPress team on Slack. You've already been invited to [wordpress.slack.com](#). Go there to log in. Be sure to log in using [travel_girl@chat.wordpress.org](#) as your email address. If you haven't received an email invitation to [majabenke@gmx.de](#) yet, check your spam and promotions folders. You can email [slackinvitehelp](#) at this domain (just the "wordpress.org" part) for help. If you need help with WordPress, please note that there is no support channel for WordPress on Slack. The best place to get support is the [WordPress.org support forums](#) which are highly active and well maintained. If you need help with Slack, we have for starters, Slack's Help Center is really great. Once you've joined [wordpress.slack.com](#), there is a [#slackhelp](#) channel to help members of the community.



The WordPress project uses [Slack](#) as its main real-time communication platform, replacing all previous communication platforms such as IRC and Skype. When compiling a list of things people liked about our previous communication methods, it was obvious that Slack was all of that and more, including:

- Open for everyone
- Friendly user interface
- Easy asynchronous conversation
- iOS and Android apps
- Powerful customization abilities
- Excellent search

WordPress has historically used IRC on [Freenode](#) for its real-time communication, and the [#wordpress](#) support IRC channel will continue on. Slack communication is used for *contributing* to the WordPress project, be it code, design, documentation, etc.

Joining the WordPress team on Slack

You've already been invited to [wordpress.slack.com](#). Go there to log in. **Be sure to log in using [travel_girl@chat.wordpress.org](#) as your email address.**

If you haven't received an email invitation to [wordpress.slack.com](#) yet, check your spam and promotions folders. You can email [slackinvitehelp](#) at this domain (just the "wordpress.org" part) for help.

I need help with WordPress!

Please note that there is **no support channel for WordPress on Slack**. The best place to get support is the [WordPress.org support forums](#) which are highly active and well maintained.

I need help with Slack!



The WordPress project uses [Slack](#) as its main real-time communication platform, replacing all

- Open for everyone
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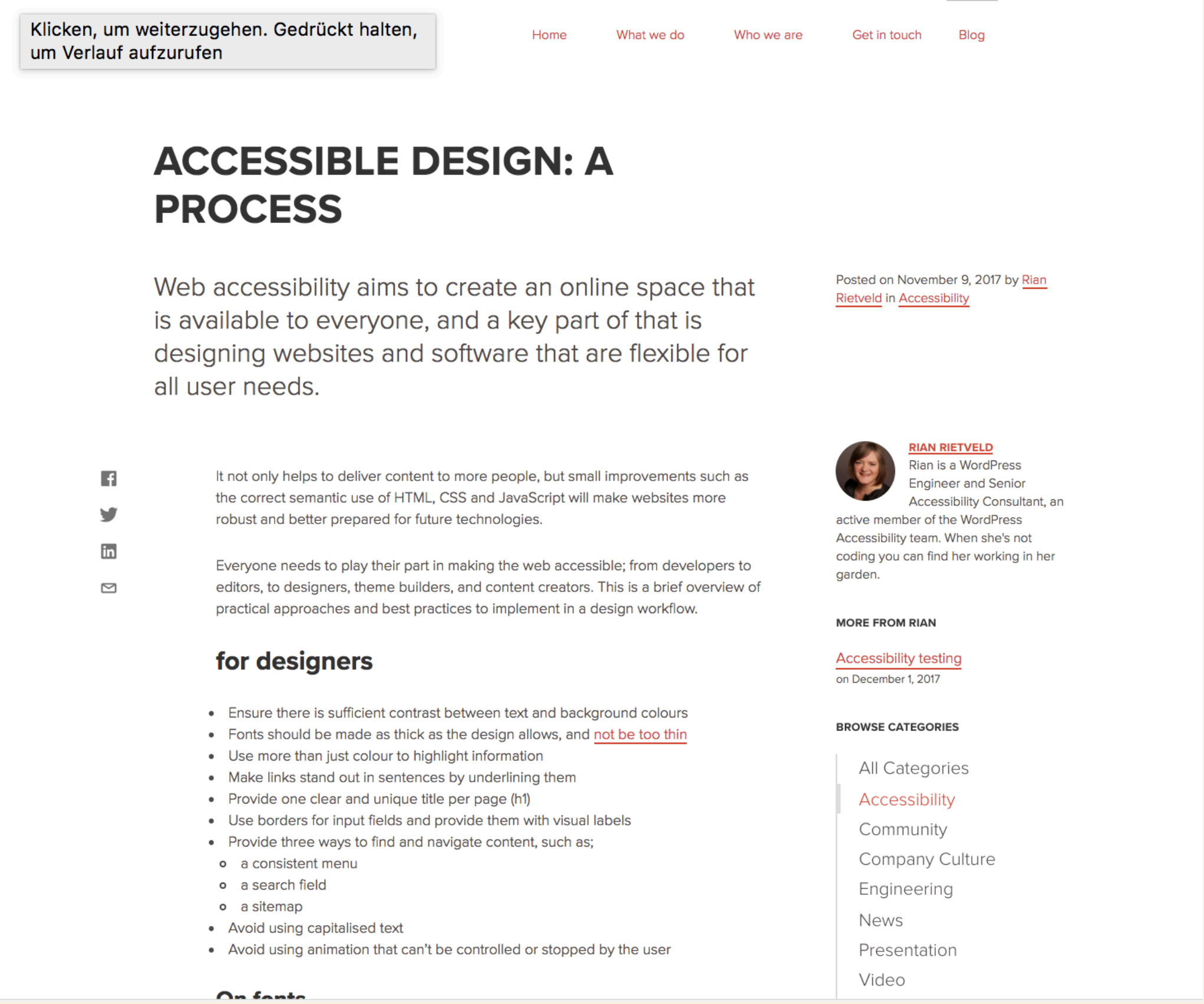
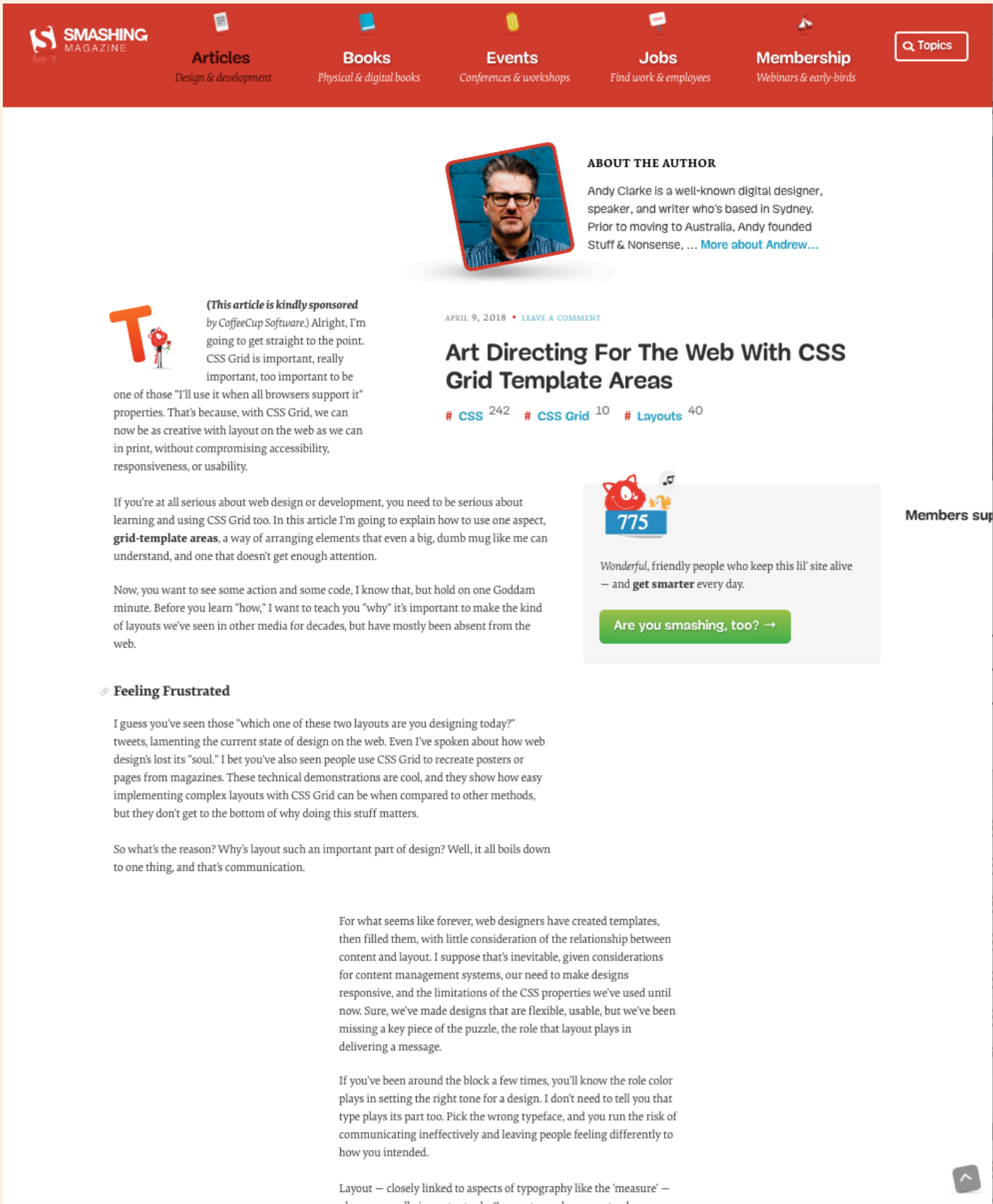
Joining the WordPress team on Slack

I need help with WordPress!

I need help with Slack!

4. Web Design for Dyslexia

Clear and Uncluttered Layout



4. Web Design for Dyslexia

Layout

- Use headings in text
- Use sections
- Use lists
- Don't use justify
- Centered text for short text only

4. Web Design for Dyslexia

Colors

- Don't set the text contrast too high
- Background not white, better off-white
- Font not black, better dark grey, dark blue or similar

The letters of the Dyslexie font are designed while taking the different characteristics of dyslexia into consideration.

The Dyslexie font is specially designed for people with dyslexia, in order to make reading easier – and more fun. During the design process, all basic typography rules and standards were ignored. Readability and specific characteristics of dyslexia are used as the guidelines for the design.

4. Web Design for Dyslexia

Colors

- No sharp Contrasts of pure Colors.
For example: Clear Green & Red
- Offer Dark Mode as an Option

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Lorem ipsum dolor sit amet, consectetur adipiscing elit

WordPress 5.3 Release Candidate

3 Minuten

The first release candidate for WordPress 5.3 is now available!

This is an important milestone as we progress toward the WordPress 5.3 release date. “Release Candidate” means that the new version is ready for release, but with millions of users and thousands of plugins and themes, it’s possible something was missed. WordPress 5.3 is currently scheduled to be released on **November 12, 2019**, but we need *your* help to get there—if you haven’t tried 5.3 yet, **now is the time!**

5. Content Creation for Dyslexia

5. Content Creation for Dyslexia

Write Text

- Don't assume knowledge
- the most important information at the beginning
- summarise content concisely and as briefly as possible
- loosen up texts with text elements:
headings, lists, quotations
- make text scannable



5. Content Creation for Dyslexia

Sentences

- one piece of information per sentence
- short paragraphs
- meaningful links and buttons
- avoid foreign words and filler words
- use active language
- plain language can help

5. Content Creation for Dyslexia

Abbreviations

- common abbreviations can help with reading.
- correct spelling is important for screen reader: etc.
- abbreviations should otherwise be avoided or explained in the text.
- don't write out numbers as words, better as digits
- don't write things like n8 (night) or u (you)

5. Content Creation for Dyslexia

Not Text Only

- support text with visual elements, e.g. graphics, images, videos, GIFs, emojis
- visual complex facts in graphics and diagrams
- mark sarcasm and irony, with emojis or gifs 🙄



5. Content Creation for Dyslexia

Gifs

- Don't let GIFs run in an endless loop.
- animations / blinking elements / popups must be possible to deactivate
- write Alt text

5. Content Creation for Dyslexia

Audio // Video

- offer content not only in text, also as audio or video
- add transcription, close captions and subtitles to make video content accessible for other users as well
- also provide to deactivate close captions and subtitles, as there can be distracting

5. Content Creation for Dyslexia

All those Helps also
Non-Natives and Others
to understand Content

6. Developing for Dyslexia

6. Developing for Dyslexia

HTML 5 and Settings

- Mark up content areas and text properly, so tools work
- use the language tag
- search fields should tolerate typos
- offer „reduce motion“ (Default) or avoid animations
- respect „No Motion“ device settings
- offer Dark Mode or adopt system settings

7. Collaborate with Dyslexic Colleges and Contributor

7. Collaborate with Dyslexic Colleges and Contributor Collaboration

- summarise conversations when handing over a ticket
- don't force others to read out loud
- make sure colleagues can work without distraction or noisy environment
 - neuroatypical people get distracted and sensory overstimulated easily
- be respectful

8. Sources and Further Information

7. Sources and Further Informations

Links

- <https://dyslexia.yale.edu/dyslexia/dyslexia-faq/>
- <https://eda-info.eu/>
- Dyslexia Persona Simone: <https://www.gov.uk/government/publications/understanding-disabilities-and-impairments-user-profiles/simone-dyslexic-user>
- A11y-Poster https://github.com/UKHomeOffice/posters/blob/master/accessibility/dos-donts/posters_de/dyslexia_de.pdf
- <https://maja-benke.de/accessibility-resource-hub/>

Thank you for your Attention!

Questions?