Today is Friday 12 April 2019

Web Directions

Designing for Learning Difficulties

@cliener

Web Directions Design • Melbourne • April 2019

cliener

Text April 09, 2019

Designing for Learning Difficulties @ Web Directions Design 2019

Type not lest ye get a 404! I reference a number of different web sites as part of my Web Directions Design talk as below. I've also added a few extra links that helped influence the talk but weren't directly referenced.

Most of the information covering the formation of written languages and dyslexia were sourced from the in-service course @sazzarj took and her many years' experience as a teacher.

ABOUT

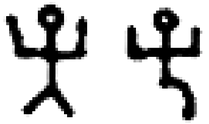
Short and sharp adventures in web and mobile development.

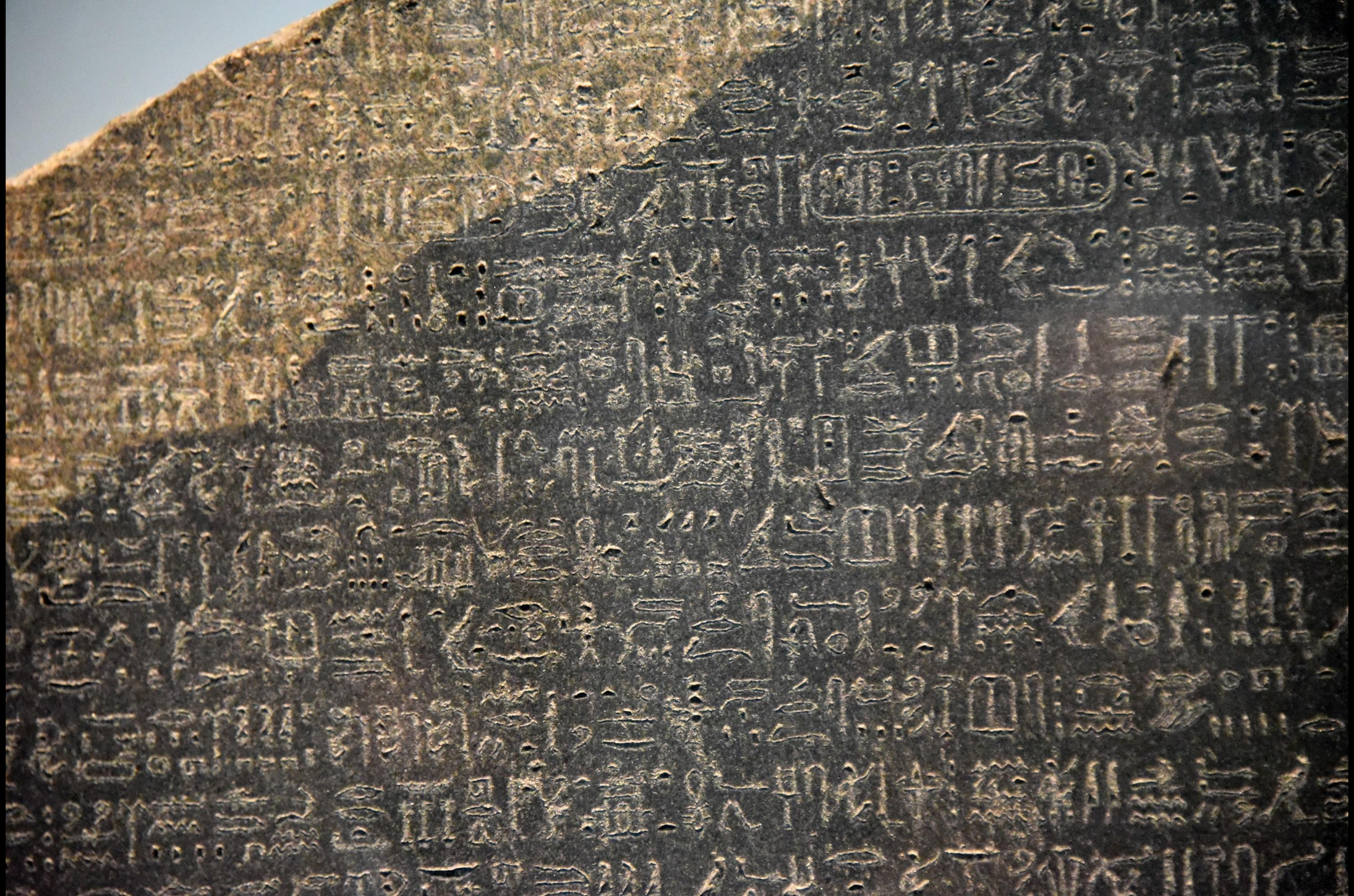
PEOPLE I FOLLOW

https://cliener.tumblr.com/

The Real Melbourne Cup
Fashions on the Field 2017
Fabulous Fascinator Award
The Real Melbourne Cup
Fashions on the Field 2017
Field to Fashion in a Flash Award
Sarah Lienert
ongratulations
1st Prize
AWARDED TO

@sazzarj

PROTO-CANAANITE	EARLY LETTER NAMES AND MEANINGS
	alp oxhead
	bêt house
	gaml throwstick
	dɨgg fish
	*hó(?)* man calling
	wó (waw) mace
	ɛḥ(n) ?



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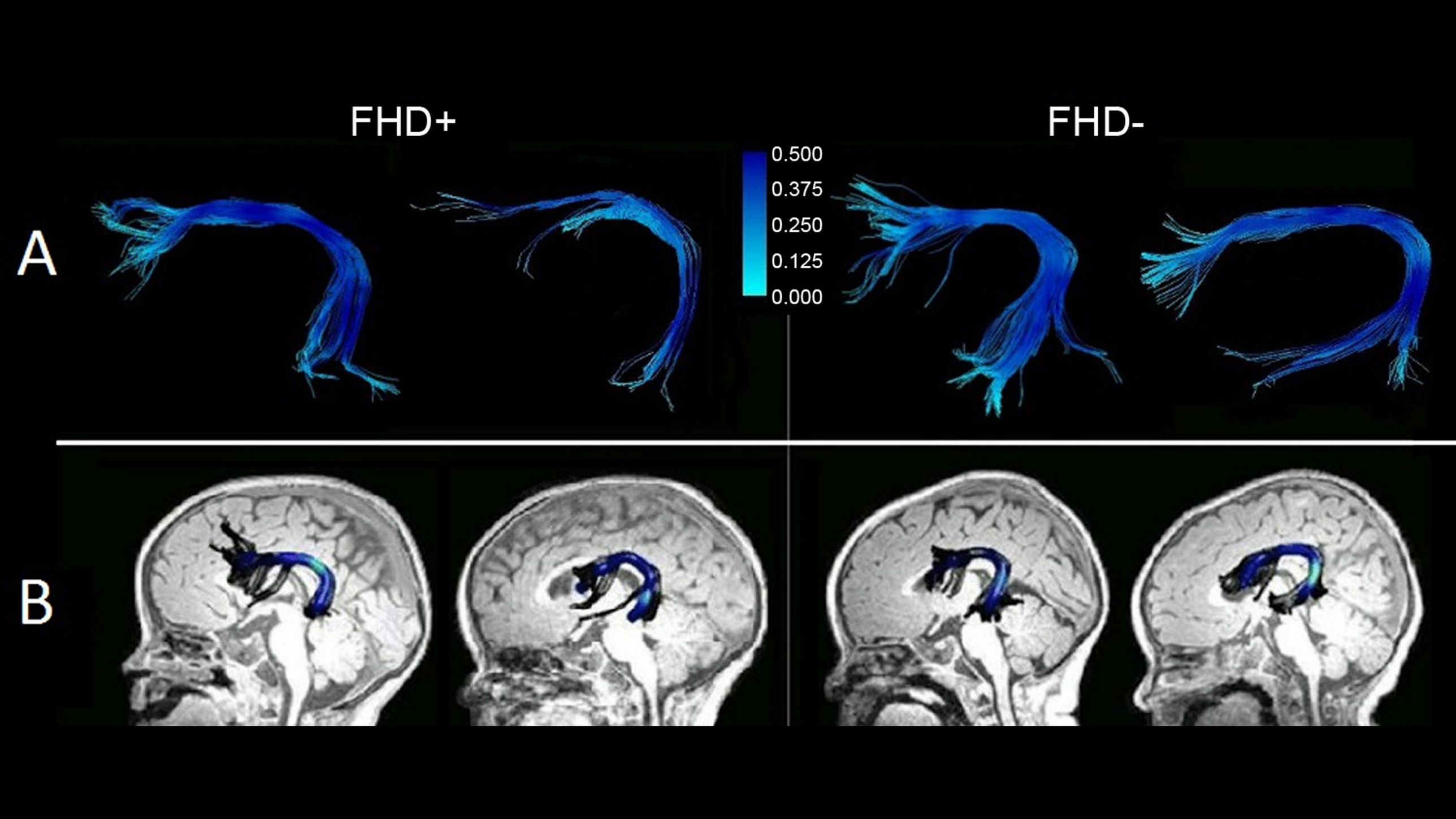
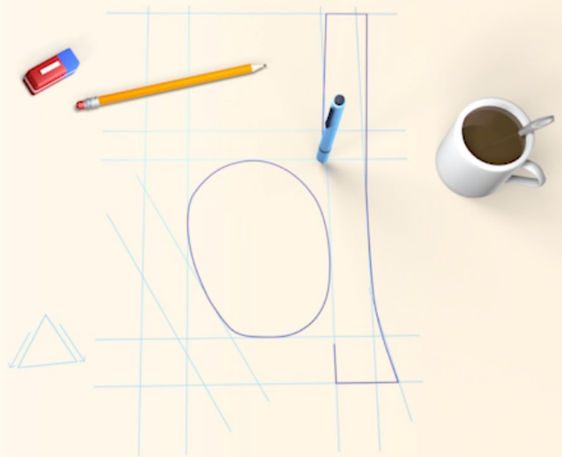

FHD+
FHD-
0.500
0.375
0.250
0.125
0.000
A
B

Typography

Dyslexie font clears the way through the letter jungle.

Dyslexie font is a unique font developed and designed for people with dyslexia to make reading, learning and working easier – and more fun. With innovative products we clear the way through the digital letter landscape, making it accessible for everyone. See for



COOKIE

We use cookies, just to track visits to our website, we store no personal details with it.□ It does not contain chocolate chips, you cannot eat it and there is no special hidden jar.

OK

OpenDyslexic

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I am the very model of a modern major general
- Helvetica

I am the very model of a modern major general
- Open Dyslexic

Research

Home / Research

Based on Research and Articles

Lots of different research bits and articles helped inspire and direct the development of OpenDyslexic. Here is a list of some:

Search

Category:

- Products
- Resource
- -Applicat
- -Books
- -Devices
- Uncatego

Share & Save

Do Dyslexia-Friendly Fonts Really Work?

By Guinevere Eden, Ph.D.

Reading Assist

rd there is a special dyslexia-friendly font that can make

736 Found this helpful

Good Fonts for Dyslexia

Luz Rello
NLP & Web Research Groups
Universitat Pompeu Fabra
Barcelona, Spain
luzrello@acm.org

Ricardo Baeza-Yates
Yahoo! Labs &
Web Research Group, UPF
Barcelona, Spain
rbaeza@acm.org

ABSTRACT

Around 10% of the people have dyslexia, a neurological disability that impairs a person's ability to read and write. There is evidence that the presentation of the text has a significant effect on a text's accessibility for people with dyslexia. However, to the best of our knowledge, there are no experiments that objectively measure the impact of the font type on reading performance. In this paper, we present the first experiment that uses eye-tracking to measure the effect of font type on reading speed. Using a within-subject design, 48 subjects with dyslexia read 12 texts with 12 different fonts. *Sans serif*, *monospaced* and *roman* font styles significantly improved the reading performance over *serif*,

The main contributions of this study are:

- Font types have a significant impact on readability of people with dyslexia.
- Good fonts for people with dyslexia are *Helvetica*, *Courier*, *Arial*, *Verdana* and *Computer Modern Unicode*, taking into consideration reading performance and subjective preferences. On the contrary, *Arial It.* should be avoided since it decreases readability.
- *Sans serif*, *roman* and *monospaced* font types increased

Success Criterion 1.4.12 Text Spacing §

(Level AA)

Understanding Text Spacing
How to Meet Text Spacing

In content implemented using markup languages that support the following text style properties, no loss of content or functionality occurs by setting all of the following and by changing no other style property:

- Line height (line spacing) to at least 1.5 times the font size;
- Spacing following paragraphs to at least 2 times the font size;
- Letter spacing (tracking) to at least 0.12 times the font size;
- Word spacing to at least 0.16 times the font size.

Exception: Human languages and scripts that do not make use of one or more of these text style properties in written text can conform using only the properties that exist for that combination of language and script.

Success Criterion 1.4.13 Content on Hover or Focus §

(Level AA)

Understanding Content on Hover or Focus
How to Meet Content on Hover or Focus

Where receiving and then removing pointer hover or keyboard focus triggers additional content to become visible and then hidden, the following are true:

- **Dismissable:** A mechanism is available to dismiss the additional content without moving pointer hover or

```css
* {
  line-height: 1.5;
  letter-spacing: 0.12em;
  word-spacing: 0.16em;
}

p {
  margin-bottom: 2em;
}
```

« From Casual to Textile to Marker: the story of a font | Main | Web Links (URLs) for Typography & Dyslexia post »

TYPOGRAPHY & DYSLEXIA

TYPOGRAPHY & DYSLEXIA

Fonts that purportedly ameliorate dyslexia have recently been featured in blogs and on-line news media: Slate (Nov. 10, 2014, with correction Nov. 12), NPR (Nov. 11, 2014), USA Today (Nov 12, 2014), The Guardian (Nov. 12, 2014), and an earlier post in Scientific American (October 26, 2011).

What is missing from these news reports is scientific evidence that special dyslexia fonts are actually better for dyslexic readers than commonly used fonts.

In preparing a literature review on dyslexia and typography for a major font vendor, I surveyed more than fifty scientific papers and

CATEGORIES

Lucida Grande

Apple Typeface Designs

Articles

Artwork

Calligraphy in Type Design

Casual to Textile

Digital Type Archaeology

Dyslexia & Typography

Film

Handmade Calligraphy

History of B&H

How and Why Lucida

Isadora

Lettering and Signage

Literacy

Lucida Calligraphy

Lucida Casual

Lucida Console

Colour Contrast

Color contrast

Contrast ratio information is particularly useful when you are designing the color palette for your website because if the contrast is not sufficient, readers with visual impairments such as color blindness will be unable to read the text. The Web Content Accessibility Guidelines (WCAG) Guideline 1.4 specifies 4.5.1 as the minimum contrast ratio between the foreground and background color for body text, and 4.5.1 for headings, for AA compliance (criterion 1.4.3). For AAA compliance, the specified ratios are 7.1 for body text, and 4.5.1 for headings (criterion 1.4.6).

For example:

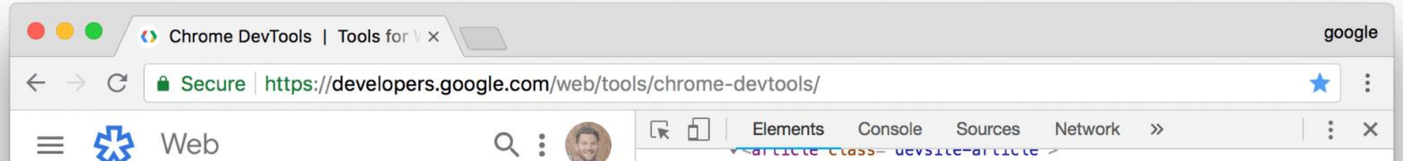
Home
Open DevTools
DevTools for Beginners
DOM
CSS
JavaScript
UI References and Overviews
Accessibility
Reference
Navigate DevTools With Assistive Technology
Guides
Simulate Mobile Devices
Remote Debugging
Console
Performance

View the contrast ratio of a text element in the Color Picker

Some people with low vision don't see areas as very bright or very dark. Everything tends to appear at about the same brightness, which makes it hard to distinguish outlines and edges. Contrast ratio measures the difference in brightness between the foreground and background of text. If your text has a low contrast ratio, then these low vision users may literally experience your site as a blank screen.

The Color Picker can help you make sure that your text meets recommended contrast ratio levels:

1. Click the **Elements** tab.
2. In the **DOM Tree**, select the text element that you want to inspect.



How to use Dark Mode on your Mac

Dark Mode makes it easier to stay focused on your work, because your content stands out while darkened controls and windows recede into the background.

HTML

CSS (SCSS)

```
22    > *:last-child svg {
23      transform: scaleX(-1);
24    }
25  }
26
27  @media (prefers-color-scheme: dark) {
28    body {
29      background-color: #222;
30      color: #eee;
31    }
32
33    .kin svg {
34      fill: #ff3c41;
35    }
36  }
```

JS

CSS Dark Mode

A short demo of the CSS media query `prefers-color-scheme` for Singapore CSS. The feature was introduced with MacOS Mojave and (at the time of writing) available in Safari Tech Preview. More details in Paul Miller's post: Using dark mode in CSS with MacOS Mojave.

Ad Bring your team together with Slack, the collaboration hub for work.

HTML

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Dark Mode

- Enabled Dark Mode CSS Support by default in the Experimental Features menu (r238213)
- Added experimental support for a `supported-color-schemes` CSS property (r238001)
- Updated `prefers-color-scheme` media query matching to better match the draft spec (r238200)
- Changed the default document background and text colors in dark mode and when `dark` is listed as a `supported-color-schemes` on the document or body element (r238212)
- Added support for forcing color scheme (dark or light mode) in Web Inspector's Elements tab (r238570)

Web Animations

- Enabled Web Animations by default in the Experimental Features menu (r238095)

Intersection Observer

- Enabled Intersection Observer by default in the Experimental Features menu (r238129)

Web Authentication

Extraneous Lingual Complexity

~~Extraneous Lingual Complexity~~

Use Simple Words

Queenie
@queer_queenie

Follow

tour guide: here are the sharks

me: bitey boi

guide: ...and over here, a swordfish

me: pointy boi

guide: get out of the aquarium

1:52 AM - 23 Jul 2018

Animation

Sign in Get started

Your UI isn't a Disney Movie

Sophie Paxton Follow
Oct 5, 2015 · 5 min read

My previous short article about gratuitous animation really struck a chord with people. The response has been phenomenal and it's been awesome reading others' frustrations with overly animated UIs.

To be clear, **I'm not anti motion design** for UIs. Far from it. I have a problem

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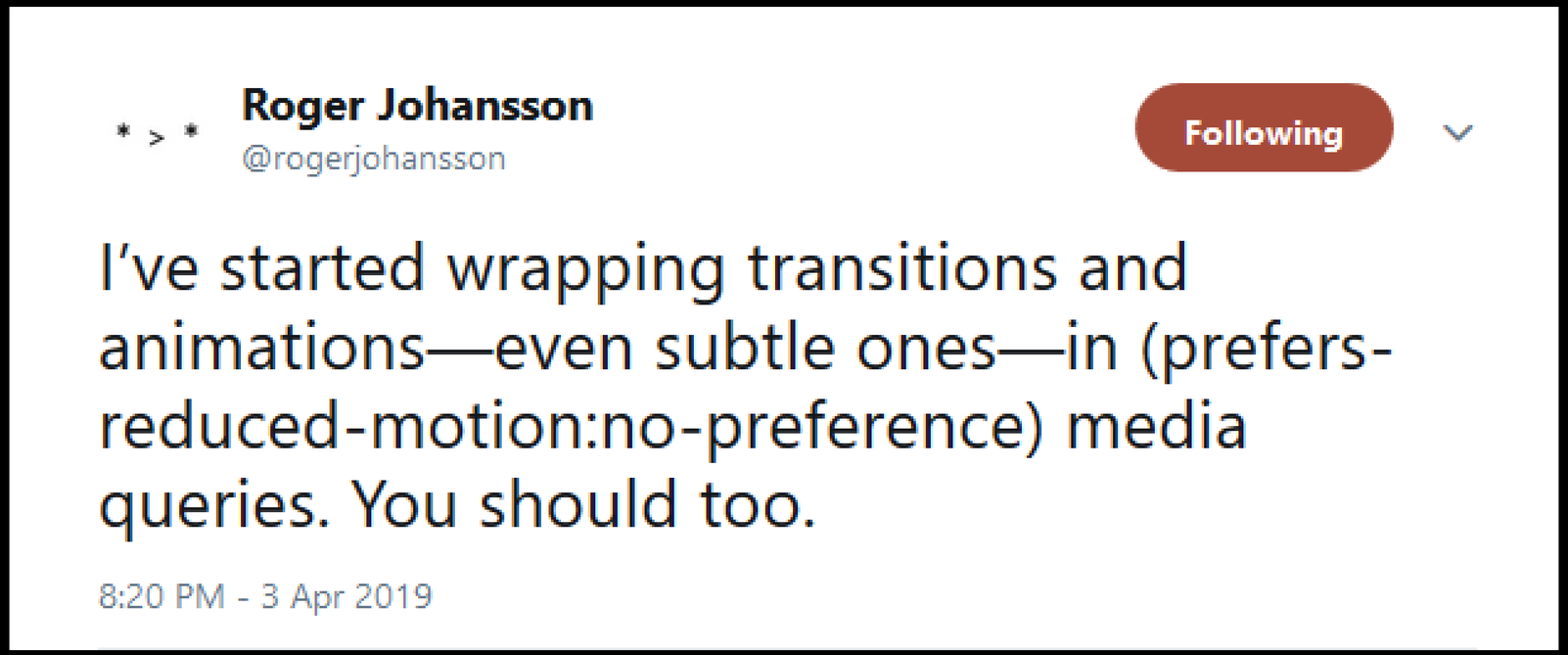
prefers-reduced-motion

The `prefers-reduced-motion` CSS media feature is used to detect if the user has requested that the system minimize the amount of animation or motion it uses.

Syntax


* > *
Roger Johansson
@rogerjohansson
Following
I've started wrapping transitions and animations—even subtle ones—in (prefers-reduced-motion:no-preference) media queries. You should too.
8:20 PM - 3 Apr 2019

HTML

CSS (SCSS)

```
:root {
  --animation-timing: 500ms;

  // reduce or eliminate timing when requested
  @media (prefers-reduced-motion: reduce) {
    --animation-timing: 0;
  }
}

button {
  font-size: 2em;
  background-color: #c00;
  color: #fff;
  // hard-coded fallback for non-custom property-friendly browsers
```

JS

Using CSS custom properties to control animation with the prefers-reduced-motion media query.

Hover me

Ad Bring your team together with Slack, the collaboration hub for work.

Visual Noise

THE

World turn'd upside down:

OR,

A briefe description of the ridiculous Fashions of these distracted Times.

By T. J. a well-willer to King, Parliament and Kingdom.

London: Printed for *John Smith*. 1646 1644.

Jan: 28

We would love to get your opinion on your experience with our site with a short survey

Take Survey

Allow or block media autoplay in Firefox

Updates

Join us for the first #AskChrome Live session to learn about Implementing Performance Budgets and live Q&A. Register now

Picture-in-Picture (PiP)
Audio/Video Updates in Chrome 62
Introducing the Web Share API
New in Chrome 61
Introducing visualViewport
August
July
June
May
April

Autoplay Policy Changes

Contents
New behaviors
Media Engagement Index (MEI)
Developer switches
Iframe delegation
...

Note: The Autoplay Policy launched in M66 Stable for audio and video elements and

There's no such thing as

NORMAL

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