

Online Accessibility

Jaiden and Julian

“We cannot account for every need that every person will ever have. Accessibility is a promise, not a guarantee. It’s a speculative practice.”

Carolyn Lazard, Accessibility in the Arts

Accessibility on the Web

Designing for Screen Readers

- Alt text and image descriptions
 - Also helpful for SEO
 - Null alt text for decorative images
 - **Fewer than 1% of images online are described**
- HTML Semantics
- Including blind and low-vision users in the design process

Designing for users of screen readers		
Do...	Don't...	
describe images and provide transcripts for video		only show information in an image or video 
follow a linear logical layout 	spread content all over a page 	
structure content using HTML5 	rely on text size and placement for structure 	
build for keyboard use only 	force mouse or screen use 	
write descriptive links and headings 	write uninformative links and headings 	

Color Contrast

- People with low vision or color blindness rely on high-contrast text for readability.
- Avoid color-dependent information.
- Avoid text over busy backgrounds.

 <p>Bad Contrast</p> <p>Contrast Ratio: 1.12:1</p>	 <p>Good Contrast</p> <p>Contrast Ratio: 5.24:1</p>
 <p>Bad Contrast</p> <p>Contrast Ratio: 3.72:1</p>	 <p>Good Contrast</p> <p>Contrast Ratio: 13.9:1</p>
 <p>Bad Contrast</p> <p>Contrast Ratio: 4.41:1</p>	 <p>Good Contrast</p> <p>Contrast Ratio: 21:1</p>

Web Navigation

- Ensure all interactive elements can be accessed without a mouse.
- Highlight where the user is on the page.
- Don't use complex menus.

✓ Accessible

Morning

Afternoon

Evening

Focus is on afternoon

✗ Not Accessible

Morning

Afternoon

Evening

Focus is on afternoon

Tab

Tab

Shift + Tab

Shift Tab



Enter / Return



Spacebar



Arrow Keys

moves the keyboard focus downwards through the website's interactive elements.

reverse action of TAB, moves the keyboard focus upwards.

equivalent to a mouse click on links or press buttons, i.e. saying "yes" or "go".

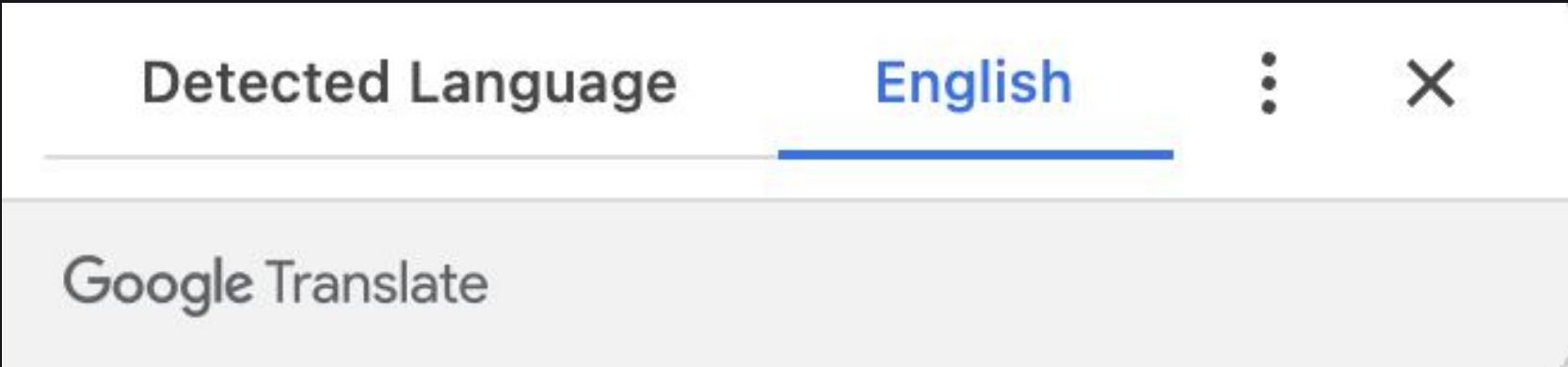
checks or unchecks boxes, helps you press buttons.

help you scroll up and down the page, help you choose one option from a set of options, help you move through items in a menu or in tab panels.

ACCESSIBILITY

Language Tools

- Real-time text translation by Google
- Simplified language mode—e.g. for aphasia
- TTS in multiple languages
- Pronunciation and definition tools



Easy english (aphasia friendly)	Standard english
Easy English presents web pages in simple language where possible. This means shorter words and sentences. It also makes the text size bigger to help you read.	Standard English presents web pages in more complex and detailed language. Text size will not change. You can always switch to Easy English later.

OR

Pick and choose your accessibility settings

Symposium

Workshop January 25

Working in groups of two, pick a **topic** from the **list**. Do some research on the topic provided. Focus your interest on a specific topic or application.

Each group will propose a topic, propose a specific application, and present their findings. There are a 20-minute presentation time.

Objectives

Learn about current web technologies

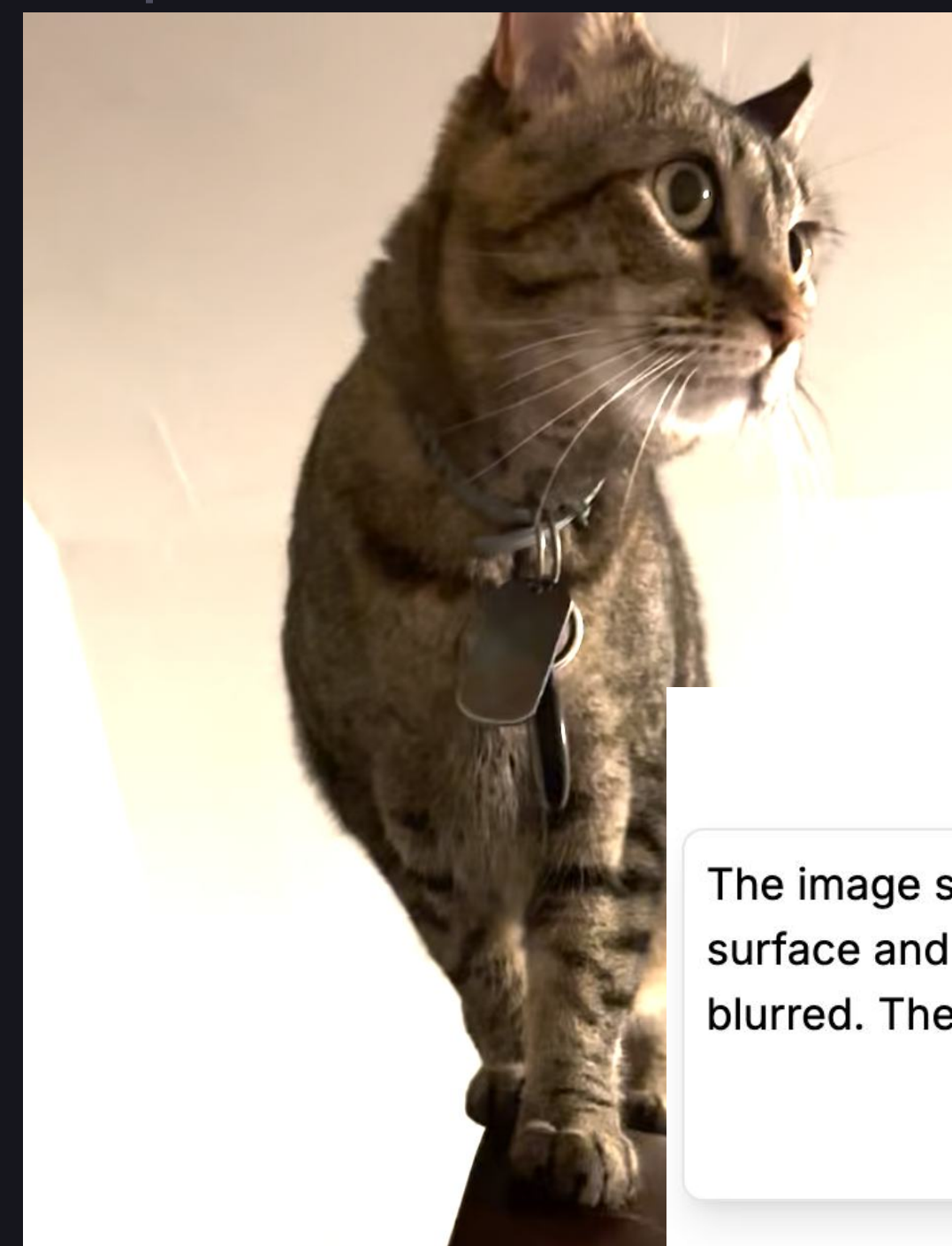
topic

A matter dealt with in a text, discourse, or conversation; a subject.

More »

Current Innovations

- Brain-computer interface for quadriplegics
- AI for real-time image description
- Voice-controlled navigation



273 characters · 46 words · Formal · English



1. A cat perched on a chair, showcasing its curious demeanor and playful stance.
2. A cat standing confidently on a chair, highlighting its playful nature and inquisitive spirit.
3. A cat in a standing position on a chair, embodying curiosity and a sense of exploration.

Image describe result

The image shows a tabby cat with a collar and a tag standing on a brown surface and looking to the right. The cat is in focus, and the background is blurred. The cat appears to be alert and curious.

Play

Copy

Accessibility in Art

ACCESSIBILITY IN ART

Making Existing Art Accessible

- Touch exhibits in museums
- Sensory-friendly performances
- Sign language interpretation



Accessibility as Art

- Sign Gene: captions as a part of the art
- Increased use of captions in online spaces such as Tiktok and Youtube



Our Proposal

Web Access Toolkit

Off

Bionic reading

On

Paragraph focus

Off

Accessible font

Off

Large font

Off

Low-contrast colors

Off

Disable autoplay

Off

Hide images

Bionic Reading

- Said to improve reading speed for people with ADHD
- Mixed support, anecdotal evidence

**Reading
As before**

Bionic Reading is a new method facilitating the reading process by guiding the eyes through text with artificial fixation points. As a result, the reader is only focusing on the highlighted initial letters and lets the brain center complete the word. In a digital world dominated by shallow forms of reading, Bionic Reading aims to encourage a more in-depth reading and understanding of written content.

**Reading mode
Bionic Reading (variation)**

Bionic Reading is a new method facilitating the reading process by guiding the eyes through text with artificial fixation points. As a result, the reader is only focusing on the highlighted initial letters and lets the brain center complete the word. In a digital world dominated by shallow forms of reading, Bionic Reading aims to encourage a more in-depth reading and understanding of written content.

OUR PROPOSAL

Paragraph focus

- Limits distractions while reading
- Breaks up large blocks of text

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- > [Comorbidities](#)
- > [Causes](#)
- > [Pathophysiology](#)
- > [Diagnosis](#)
- > [Management](#)
- [Prognosis](#)
- [Epidemiology](#)
- [History](#)
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Attention deficit hyperactivity disorder (ADHD)^[4] is a [neurodevelopmental disorder](#) characterized by [executive dysfunction](#) occasioning symptoms of [inattention](#), hyperactivity, [impulsivity](#) and [emotional dysregulation](#) that are excessive and pervasive, impairing in multiple contexts, and [developmentally-inappropriate](#).^[10]

ADHD symptoms arise from executive dysfunction,^[19] and emotional dysregulation is often considered a core symptom.^[23] Impairments resulting from deficits in self-regulation such as [time management](#), [inhibition](#), and sustained attention^[24] can include poor professional performance, relationship difficulties, and numerous health risks,^{[25][26]} collectively predisposing to a diminished quality of life^[27] and a direct average reduction in life expectancy of 13 years.^{[28][29]} The disorder costs society hundreds of billions of US dollars each year, worldwide.^[30] It is associated with other neurodevelopmental and [mental disorders](#) as well as non-psychiatric disorders, which can cause additional impairment.^[9]

While people with ADHD often struggle to initiate work and persist on tasks with delayed consequences, this may not be [\(disambiguation\)](#), and [Hyperactive \(disambiguation\)](#).

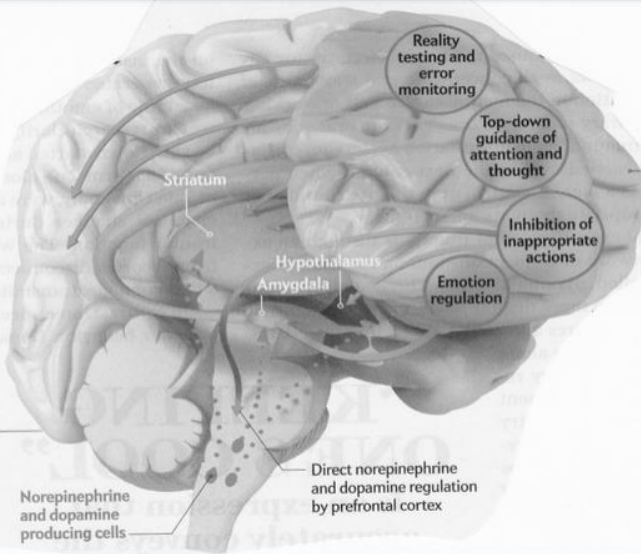
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Attention deficit hyperactivity disorder

Other names *Formerly:* Attention deficit disorder (ADD), hyperkinetic disorder^[1]



ADHD arises from maldevelopment in brain regions such as the [prefrontal cortex](#), [basal ganglia](#) and [anterior cingulate cortex](#), which regulate the executive functions necessary for human self-regulation.

Specialty [Psychiatry](#) · [pediatrics](#)

Symptoms [Inattention](#) · [hyperactivity](#) · [disinhibition](#) · [executive dysfunction](#) · [emotional dysregulation](#)

Accessible font

- Sans serif fonts are generally more readable
- Accessible fonts include Arial, Comic Sans, Verdana
- Fonts that enhance character definition, e.g., '1', 'l', 'I'

OpenDyslexic: A typeface for Dyslexia

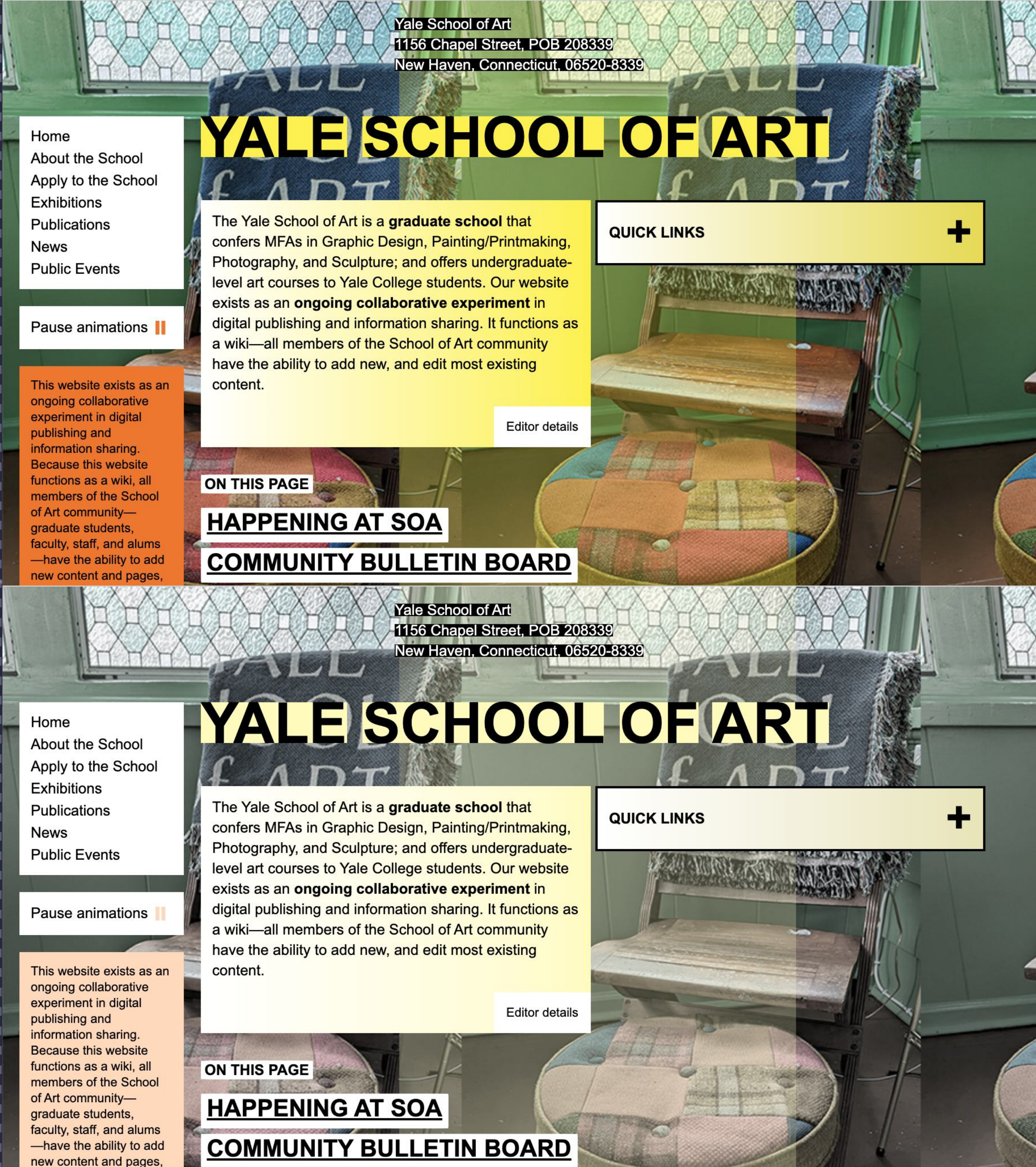
OpenDyslexic is a typeface designed against some common symptoms of dyslexia. If you like the way you are able to read this page, and others, then this typeface is for you!

OpenDyslexic is free to use: The newest version of OpenDyslexic now 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.

OUR PROPOSAL

Low-Contrast Colors

- Bright, contrasting colors can overstimulating for autistic users
- Pastels or simply gray scale color schemes can be better



OUR PROPOSAL

Disable Autoplay

- Autoplaying content can be overwhelming, overstimulating, or distracting for many users

2 people rescued from house fire in New Haven

by: [Justin B. Jones](#)
Posted: Nov 2, 2024 / 10:58 PM EDT
Updated: Nov 2, 2024 / 11:01 PM EDT



SHARE    

NEW HAVEN, Conn. (WTNH) — Two people were rescued from a burning residence in New Haven Saturday night, according to the Fire Department.

At 8:19 p.m. NHFD crews were called to 526 Howard Ave. When they arrived, crews found 2 rooms in the building on fire.

There were two occupants who were cut off from any exits by fire. Firefighters used ladders to rescue the people trapped inside.

No injuries were reported and the cause of the fire is currently under investigation.

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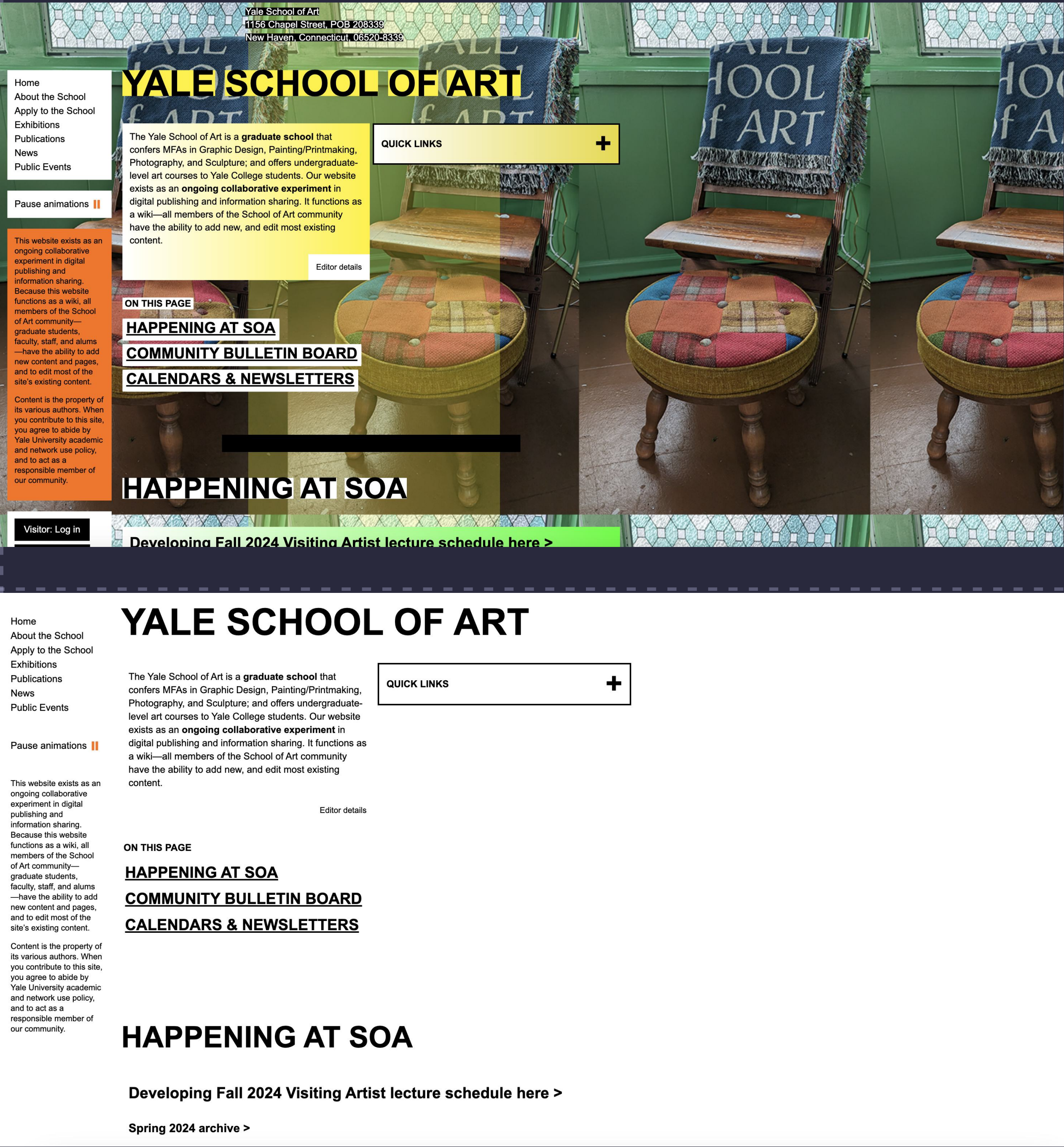
866-967-0399



OUR PROPOSAL

Hide Visuals

- Visual content, especially gifs, videos, and busy images, can be distracting or overstimulating
- This feature allows users to hide distracting visuals



SOURCES

Bureau of Internet Accessibility: How to Make Your Website More Accessible for People with ADHD

<https://www.boia.org/blog/how-to-make-your-website-more-accessible-for-people-with-adhd>

Perkins School for the Blind: How to Write Alt Text and Image Descriptions for the Visually Impaired

<https://www.perkins.org/resource/how-write-alt-text-and-image-descriptions-visually-impaired/>

Digital Accessibility for All - Web Design for Autism

<https://overlayfacts.org/blog/digital-accessibility-web-design-for-autism/>

Alt Text as Poetry

<https://alt-text-as-poetry.net/>

Chancey Fleet - Dark Patterns in Accessibility Tech

<https://datasociety.net/library/dark-patterns-in-accessibility-tech/>

Accessibility in the Arts: A Promise and a Practice

<https://promiseandpractice.art/>

Eye on Design: In Web Design, Accessibility Shouldn't Be an Afterthought

<https://eyeondesign.aiga.org/in-web-design-accessibility-shouldnt-be-an-afterthought/>