



# Research Document

Task 1

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5.1A – WEB DEVELOPMENT

# Web Accessibility Research

Web accessibility is all about making websites easy to use for everyone, including people with disabilities. Many users face challenges when browsing the internet due to vision impairments, color blindness, dyslexia, ADHD, or other disabilities. If a website is designed poorly, these users may struggle to read, navigate, or interact with it. The goal of web accessibility is to remove these barriers so that everyone has an equal experience online.

## What is Web Accessibility?

Web accessibility means designing websites in a way that allows all people, regardless of ability, to use them. The Web Content Accessibility Guidelines (WCAG) set out best practices to ensure websites are:

- Perceivable – Content should be easy to see and hear.
- Operable – Users should be able to navigate the site easily, even without a mouse.
- Understandable – The information should be clear and easy to read.
- Robust – The website should work well with different assistive technologies like screen readers.

A well-designed website helps not only people with disabilities but also improves the experience for everyone. For example, captions on videos are helpful for people who are deaf but also for those watching in a noisy environment.

## Comparison of Good and Bad Websites

Some websites do a great job of making their content accessible, while others completely ignore accessibility, making it difficult for many users.

### **Yale School of Art**

<https://art.yale.edu/>

This website is a well-known example of poor web design and accessibility mistakes:

- Bad Color Contrast: The website uses clashing colors that make text hard to read, which is a nightmare for people with color blindness.
- Chaotic Layout & Typography: The text is randomly placed, and some words overlap, making it confusing to read.
- No Clear Navigation: There are no structured menus, making it difficult to find important information.
- Lack of Alternative Text for Images: This means that people using screen readers have no idea what the images are about.



## WebAIM

<https://webaim.org/>

Although still not the best WebAIM is a website dedicated to web accessibility, and it follows best practices:

- **Good Color Contrast:** Dark text on a light background makes everything easy to read.
- **Well-Structured Typography:** The headings and paragraphs are clearly spaced and easy to scan.
- **Keyboard Navigation:** Users can move through the site using just the keyboard, which is great for people who can't use a mouse.
- **Alt Text for Images:** Screen readers can describe images, making the site more inclusive for blind users.

WebAIM  
web accessibility in mind

services articles resources projects community

Search:

Introduction to Web Accessibility

WebAIM Training

## We have web accessibility in mind

Expanding the potential of the web for people with disabilities by empowering individuals and organizations to create accessible content.

### Accessibility Training

WebAIM can provide web, document, Zoom, and strategic accessibility training to fit your needs.

### Technical Assistance

Need assistance implementing accessibility? WebAIM's expert staff can provide the assistance you need.

### Accessibility in Procurement

Tools and processes to help organizations account for accessibility in purchasing or using technology.

### Evaluation and Reporting

We can provide reports to help you know how accessible your site is and how to make it better.

### Community

[WebAIM Blog](#)

[Newsletter](#)

[E-mail Discussion List](#)

[Twitter](#)

### Current Features

#### Global Digital Accessibility Salary Survey Results

This report provides salary and other data from web accessibility professionals.

### WebAIM Trainings

[Document Accessibility Online Course](#)

[February cohort](#) open for enrollment

[Accessibility in Technology](#)



**BBC**

<https://www.bbc.com/>

BBC's website is designed to be user-friendly for all:

- **Easy-to-Read Fonts and Sizes:** The text is large enough to read comfortably with good spacing.
- **Subtitles on Videos:** These help both deaf users and those watching in quiet environments.
- **Simple and Clear Navigation:** Menus are easy to understand, making it simple to find content.

The screenshot displays the BBC News homepage. At the top, there is a navigation bar with the BBC logo, a search icon, and links for 'Register' and 'Sign In'. Below the navigation bar, a horizontal menu lists various news categories: Home, News, Sport, Business, Innovation, Culture, Arts, Travel, Earth, Audio, Video, and Live. The main content area features several news stories. On the left, there is a story titled 'Analysis: Trump-Putin call seen as victory in Russia' with a sub-headline 'The Russian leader was able to set his own conditions for peace in a two-hour phone call with Donald Trump.' and a timestamp of '4 hrs ago | Europe'. Below this is another story titled 'JFK experts scour newly unsealed assassination files' with a sub-headline 'The files are still being reviewed, but have not so far revealed any smoking gun about the US president's killing.' and a timestamp of '5 hrs ago | US & Canada'. In the center, there is a large image of Volodymyr Zelenskyy. To the right of the Zelenskyy image is a story titled 'LIVE Trump says hour-long call with Zelensky was 'very good'' with a sub-headline 'Much of the discussion with Ukraine's leader was based on his call with Putin on Tuesday, the US president confirms.' and a timestamp of '12 hrs ago | World'. To the right of the Zelenskyy image is another story titled 'Splurge or save? Americans struggle as tariffs hit economy' with a sub-headline 'Families in the US are trying to dodge higher prices from tariffs, as worries rise about the economy.' and a timestamp of '8 hrs ago | Business'. Below this is a story titled '► 'You don't have the cards' - How to play poker against Trump' with a sub-headline 'The BBC's Anthony Zurcher takes a closer look at the US president's negotiation strategy with top world leaders.' and a timestamp of '3 hrs ago | World'. Below this is a story titled 'World's ugliest animal' is New Zealand's fish of the year' with a sub-headline 'Known as the world's ugliest animal for its lumpy appearance, the blobfish makes a stunning comeback.' and a timestamp of '12 hrs ago | World'. At the bottom right, there is a story titled 'Israel hits Gaza with more strikes as Netanyahu says fighting to resume 'in full force'' with a sub-headline 'Israel's military denies attacking the Deir al-Balah compound, after the Hamas-run health ministry blamed an Israeli strike.' and a timestamp of '2 hrs ago | Middle East'.

## Comparison of Car Websites: Good vs Bad

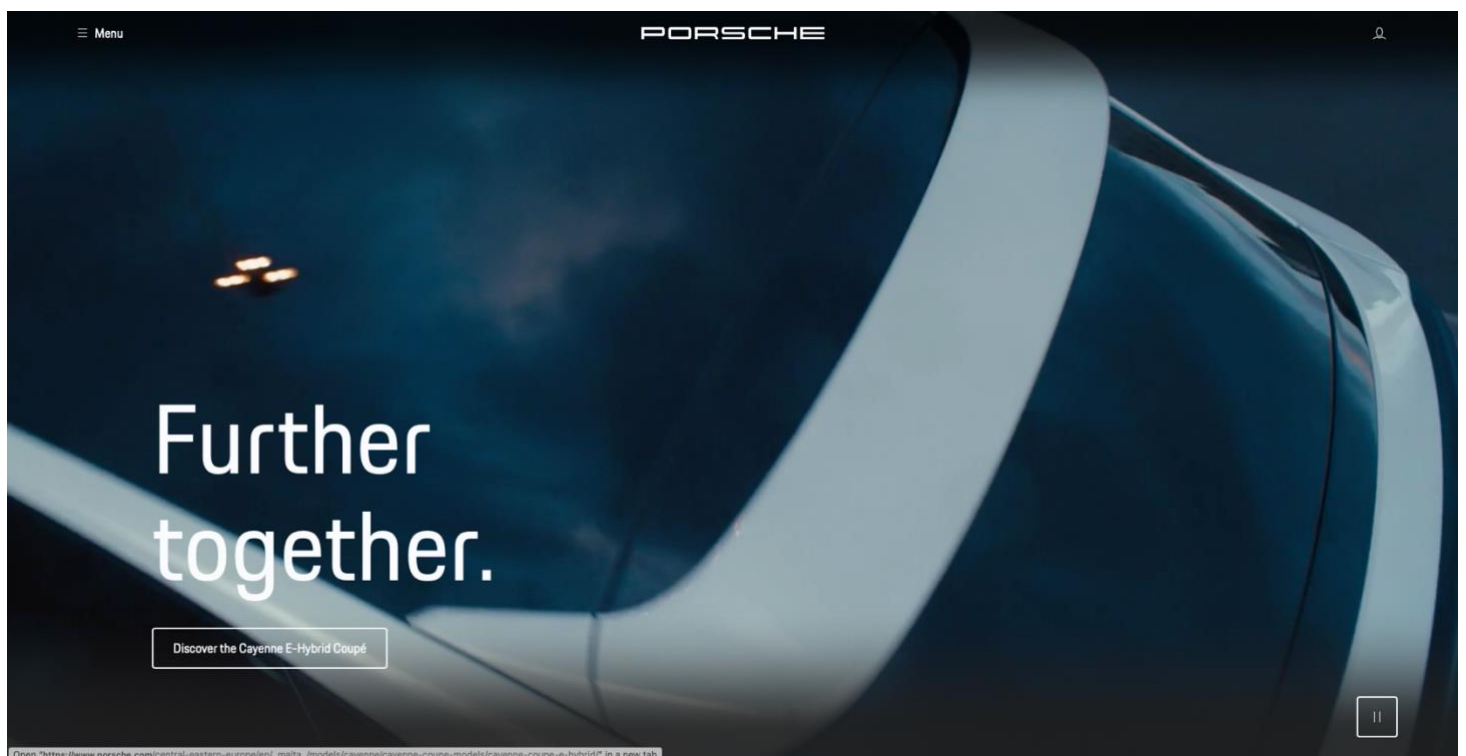
Since my final project is about vintage cars and showcasing collections, I looked at some car-related websites to compare accessibility.

### Porsche

<https://www.porsche.com/>

Porsche's website is an example of how a luxury car brand can have a sleek yet accessible design:

- **Great Color Contrast:** High contrast between text and background ensures readability.
- **Well-Structured Navigation:** Menus are clear, and users can easily browse through different models and collections.
- **Large, Readable Fonts:** Text is well-sized and spaced out, making it easy to scan.
- **Mobile Responsiveness:** The site adjusts perfectly to different screen sizes, which is great for mobile users.
- **Alt Text & Descriptive Links:** All images have descriptions, and links clearly explain where they lead.



## Yugo America

<https://www.yugoamerica.com/registry/>

The Yugo America website is an example of poor accessibility and outdated web design:

- **Lack of Visual Hierarchy:** The website does not have clear headings or titles, making it difficult to distinguish sections. The plain design lacks emphasis on important content.
- **Moving GIF Title:** The animated title continuously moves, which can cause discomfort or distractions, especially for users with motion sensitivity.
- **Typography Issues:** The fonts used feel mismatched, and there is no contrast in text sizes to indicate headings or body text, making the content harder to follow.
- **Low Contrast Text:** The combination of grey text on a white background, along with small font size, reduces readability, especially for users with visual impairments.
- **Plain Layout with Wasted Space:** While the website surprisingly follows a grid structure that could work well on mobile devices, it is too plain, leaving large empty spaces that could be better utilized to make the site more engaging.

However, the website does have some strengths:

- **Functional Navigation:** Despite its outdated appearance, the homepage links work correctly, allowing users to navigate without broken pages.
- **Grid-Based Structure:** The layout follows a structured grid, making it adaptable to mobile screens.

# YUGO AMERICA

Update 3/10/2022, 8:28 PM EST: I've started the enormous process of digitizing the factory Yugo parts catalog.

Hi! Welcome to YugoAmerica.com – possibly the first and only website, registry, online gravestone, and knowledge repository dedicated to the vehicle with the most underdog spirit of them all of the last century, the mighty Yugo.

Have a new-to-you Yugo? Be sure to add your car to the [registry](#)!

Looking for shop manuals or other documentation? I've started scanning it all in on our [Parts & Support](#) page. This is also where I've stuck a link to our main Facebook group page!

Got a neat story, Yugo tip, or want to contact me for media coverage? You've got a few options over on my [Contact](#) page.



The Yugo GV.

Weirdly Competent.

## Web Accessibility Improvements in My Website

For my own project, I will focus on making my website accessible to as many people as possible by implementing the following:

- **Good Color Palette & Contrast:** I will choose colors that work well together and ensure that text is always readable against the background. This will help people with color blindness and visual impairments.
- **Clear Typography & Spacing:** I will use fonts that are easy to read and ensure that text is large enough, with proper spacing, so that it doesn't feel cramped. This will make it easier for people with dyslexia or ADHD to focus on the content.
- **Keyboard Navigation & Focus Indicators:** I will design the website so that users can navigate through the content using only the keyboard, which is essential for people with motor disabilities.
- **Alt Text & Descriptive Links:** Every image will have a proper description, and links will clearly tell users where they lead instead of saying vague things like "Click here."
- **Simple and Logical Layout:** The website will have a clear structure so that users can easily find what they need without confusion.
- **Mobile-Friendly Design:** Since many people browse on their phones, I will ensure that my site is fully responsive and works well on all screen sizes.

## Conclusion

In conclusion web accessibility is not just an extra feature, it is essential for making a website that everyone can use. By following accessibility guidelines, I can ensure that my website is clear, easy to navigate, and inclusive to all users, regardless of their abilities. A well-designed site benefits everyone, from people with disabilities to those simply looking for a smoother online experience. By learning from both good and bad examples, I will create a website that is user-friendly and accessible to all users accessing my website.



## References

- WebAIM (2023) *Introduction to Web Accessibility*. Available at: <https://webaim.org/> (Accessed: 14 March 2025).
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- Porsche (2025) *Official Porsche Website*. Available at: <https://www.porsche.com/> (Accessed: 14 March 2025).
- Yugo America (2025) *Official Yugo America Registry Website*. Available at: <https://www.yugoamerica.com/registry/> (Accessed: 14 March 2025).