

Web Accessibility 101

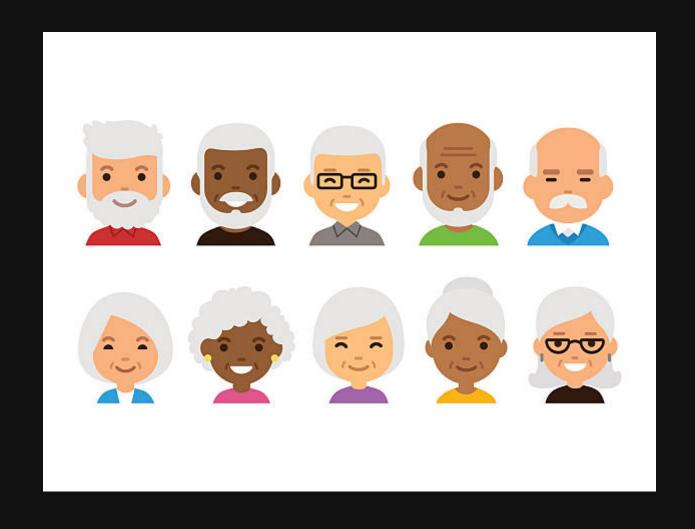
By Elohina Guevara

What is accessibility (a11y)?

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Who are we talking about?

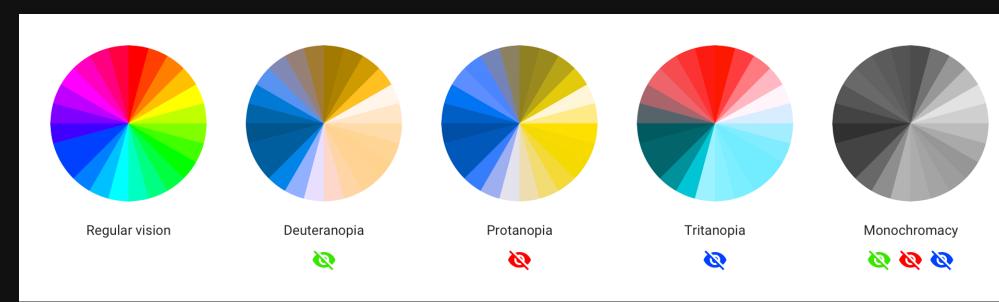
Vision

Hearing

Cognitive

Mobility

Obstacles - Color blindness



Obstacles - Low level vision

Tunel vision

Central field loss

Clouded vision

Obstacles - Blindness

How they use the web?

• Enlarging or reducing text size and images

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- Customizing settings for fonts, colors, and spacing

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- Listening to text-to-speech synthesis of the content

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- Customizing settings for fonts, colors, and spacing
- Listening to text-to-speech synthesis of the content
- Listening to audio descriptions of video in multimedia

Tips

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- 2. Don't specify exact sizes for fonts or layouts
- 3. Use descriptive titles for every page
- 4. Ensure that tab key navigation works properly
- 5. Use good contrast and don't rely only in color to give an information

Address:	Apt.:	Address:	Apt.:
City:	State/Province:	City:	State/Province: ▼
Zip Code:	Country:	Zip Code:	Country:
Primary Phone #:	Secondary Phone #:	Primary Phone #:	Secondary Phone #:

Obstacles

They will have problems with audio content without captions

How they use the web?

Using captions in video content

- Using captions in video content
- Using closed captioning



Tips

1. Transcripts and captions of audio content



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- 2. Provide options to adjust the text size and colors of captions



- 1. Transcripts and captions of audio content
- 2. Provide options to adjust the text size and colors of captions
- 3. Options to stop, pause, and adjust the volume of audio content



Obstacles

Difficulty making the exact hand movement required to use a mouse

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- Paralyzed

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- Difficulty making the exact hand movement required to use a mouse
- Paralyzed
- Old age hardware limitations



Tips

1. Provide buttons rather than text for navigation to provide a larger 'target' area

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- 2. Clear consistent layouts and navigation

Mobility

- 1. Provide buttons rather than text for navigation to provide a larger 'target' area
- 2. Clear consistent layouts and navigation
- 3. Don't think everybody uses a mouse

Obstacles

Obstacles

Mental illness

Obstacles

- Mental illness
- Learning disabilities

Obstacles

- Mental illness
- Learning disabilities
- And many more...

Tips

1. Clearly structured content

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- 2. Consistent labeling of forms, buttons, and other content parts

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- 3. Predictable link targets, functionality, and overall interaction

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- 2. Consistent labeling of forms, buttons, and other content parts
- 3. Predictable link targets, functionality, and overall interaction
- 4. Simpler text that is supplemented by images, graphs, and other illustrations

Is ally important in our projects?

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Let's see the numbers!

Worldwide

World Health Organization

Worldwide

World Health Organization

About 15% of the world's population lives with some form of disability



Q

Media centre

New world report shows more than 1 to people with disabilities face substantian barriers in their daily lives

Governments should step up efforts to enable access t mainstream services and to invest in specialized progr to unlock the vast potential of people with disabilities

News release

9 JUNE 2011 I NEW YORK - WHO and the World Bank today new global estimates that more than one billion people experier form of disability. They urged governments to step up efforts to access to mainstream services and to invest in specialized progeto unlock the vast potential of people with disabilities.

World report on disability provides global estimates

The first-ever *World report on disability* provides the first global estimates of persons with disabilities in 40 years and an overview of the status of disability in the world. New research shows that almost one-fifth of the estimated global total of persons living with disabilities, or between 110-190 million, encounter significant difficulties. The report stresses that few countries have adequate mechanisms in place to respond to the needs of people with disabilities. Barriers include stigma and discrimination, lack of adequate health care and rehabilitation services; and inaccessible transport, buildings and information and communication technologies. As

Key facts

- Over a billion people have some form of disability
- Between 110 million and 190 million adults have significant difficulties in functioning
- Rates of disability are increasing due to population ageing and increases in chronic health conditions, among other causes.

UK

Family Resources Survey: financial year 2017/18

UK

Family Resources Survey: financial year 2017/18

21% (13.3 million) of people reported a disability in 2017/18

Departments Worldwide How government works Get involved Consultations Statistics News and communications

Home

National Statistics

Family Resources Survey: financial

year 2016/17

Key facts

Results from the Family Resour 2016 to 2017, providing information circumstances of UK household

8% of children are disabled

18% of working age adults are disabled

44% of pension age adults are disabled

Published 22 March 2018

From: Department for Work and Pensions

Documents



Family Resources Survey 2016/17

PDF, 463KB, 12 pages

This file may not be suitable for users of assistive technology. Request an accessible format.

Related content

Disability prevalence estimates 2002/03 to 2011/12 (Apr to Mar)

Family Resources Survey

Family Resources Survey: financial year 2015/16

Ireland

Central Statistics Office

Ireland

Central Statistics Office

643,131 people stated they had a disability in April 2016, accounting for 13.5% of the population.

Key facts

- 6.7% of the population aged under 20 had a disability
- 49.5% of the population aged 75 and over had a disability

It's the right thing to do delay

- It's the right thing to do delay
- It has a positive impact on usability

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- We want more customers

- It's the right thing to do delay
- It has a positive impact on usability
- We want more customers
- We don't want to get our customers sued <a>

Domino's case

Is your website or app not accessible?





MARKETS

BUSINESS

INVESTING

TECH

POLITICS

CNBC TV

Supreme Court hands victory to blind man who sued Domino's over site accessibility

PUBLISHED MON, OCT 7 2019-9:40 AM EDT | UPDATED TUE, OCT 8 2019-6:31 PM EDT











EU Web Accessibility Directive

National Disability Authority

Directive (EU) 2016/2102 of the European Parliament and of the Council... requires public bodies to ensure their websites and apps are accessible to persons with disabilities. All websites created after 23 September 2018 will have to be accessible by 23 September 2019. Existing websites will have to comply by 23 September 2020.

Gravity



Buildit Gravity pattern library (Staging for Next)



Gravity is <u>Buildit @ Wipro Digital</u>'s design system. This pattern library showcases all of Gravity's styles and components for web-based projects, which are provided by the <u>@buildit/gravity-ui-web NPM package</u>.

As long as you have Gravity's CSS integrated into your project, all you need to do to "use" a component you find here is to copy the HTML markup shown in this pattern library. For complete setup and usage instructions, please refer to @buildit/gravity-ui-web's documentation on GitHub.

(In future, we plan to make the underlying Nunjucks templates directly available via another NPM package. Until then, you need to produce your own markup though)

Package versions

The following Gravity package versions were used to build this pattern library:

Cycle 7

A seven week lean understanding and rapid prototyping process



Pinpoint and answer the unknown, important questions.



Run lean impactful experiments tested directly with users.



Build realistic propositions from data driven insights.

My work in Gravity

Automated tests



Accessibility testing engine for websites and other HTML-based user interface



Web Content Accessibility Guidelines

Thank you!

Gracias!

Go raibh maith agat!

Arigato!

Obrigado!

Köszönöm!

Dziękuję Ci!