Inclusive Design

The Big Picture

(F) Knowbility

#knowbilitydesign

Eric Eggert, September 2020

Eric Eggert

Accessibility Testing Team Lead & Web Accessibility Expert

Based in Essen, Germany

- German BIENE Award in 2010
- W3C/WAI (2013–2020)
- Knowbility (since 2016)



Today's Schedule (in Central Time)

From	То	What we'll do
9:30am	10:15am	Part 1
10:15am	10:30am	Break
10:30am	11:15am	Part 2
11:15am	11:30am	Break
11:30am	12:15pm	Part 3
12:15pm	12:45pm	Lunch Break
12:45pm	1:30pm	Part 4

Introduction

What is Inclusive Design?

Jutta Treviranus

Jutta Treviranus is the Director of the Inclusive Design Research Centre (IDRC) and professor in the faculty of Design at OCAD University in Toronto.

Jutta also heads the <u>Inclusive Design</u> <u>Institute</u>, a multi-university regional centre of expertise.

Bio at OCAD University

¹Ontario College of Art & Design University

Susan M. Goltsman (1949–2016)

Susan Goltsman, FASLA², was an internationally recognized expert in programming and designing inclusive environments for children and families. She created and advocated tirelessly for environments that promote social equity and contribute to healthy human development.

Obituary at PLAE



² Fellow of the American Society of Landscape Architects

Inclusive Design, a Definition

- Digital technology can *improve* societal inclusion
- A methodology that enables and draws on the *full range of human diversity*.
- Including and learning from people with a range of perspectives.
- Inclusive design doesn't mean you're designing one thing for all people.
- You're designing a *diversity of ways to participate* so that everyone has a sense of belonging.

And just to make this clear:

This is "store-brand inclusive design", not "name-brand inclusive design".

Why do I care?



Somewhere in the Forest, Germany

As a kid, I already found that to be unfair.

I had Asthma until I was 12.

And while that excluded participation in many activities, it allowed me to go to a "regular" school.

This was not a matter of course at the time.

Allergen immunotherapy helped me eventually.

Why did we get treated differently?

- My condition did only require minor adjustments.
- I did not need an accessible building (but it would have helped).
- My parents are German, his are Greeks.

The world³ was not designed for my friend's needs.

- Inaccessible.
- No information available in Greek.
- Segregated Education.

³ Well, Germany in the 80's & 90's.

So, Inclusive Design.

Related Concepts

Inclusive Design
Universal Design
Accessibility

Universal Design

Design an environment so that it might be accessed and used in the widest possible range of situations without the need for adaptation.

"One size – fits all."

Universal Design

- Based on built environments & architecture.
- Describes the qualities of the final design.
- Great for *physical* objects.







Accessibility

Requirements that are technical and relate to the underlying code rather than to the visual appearance and requirements that relate to user interaction and visual design.

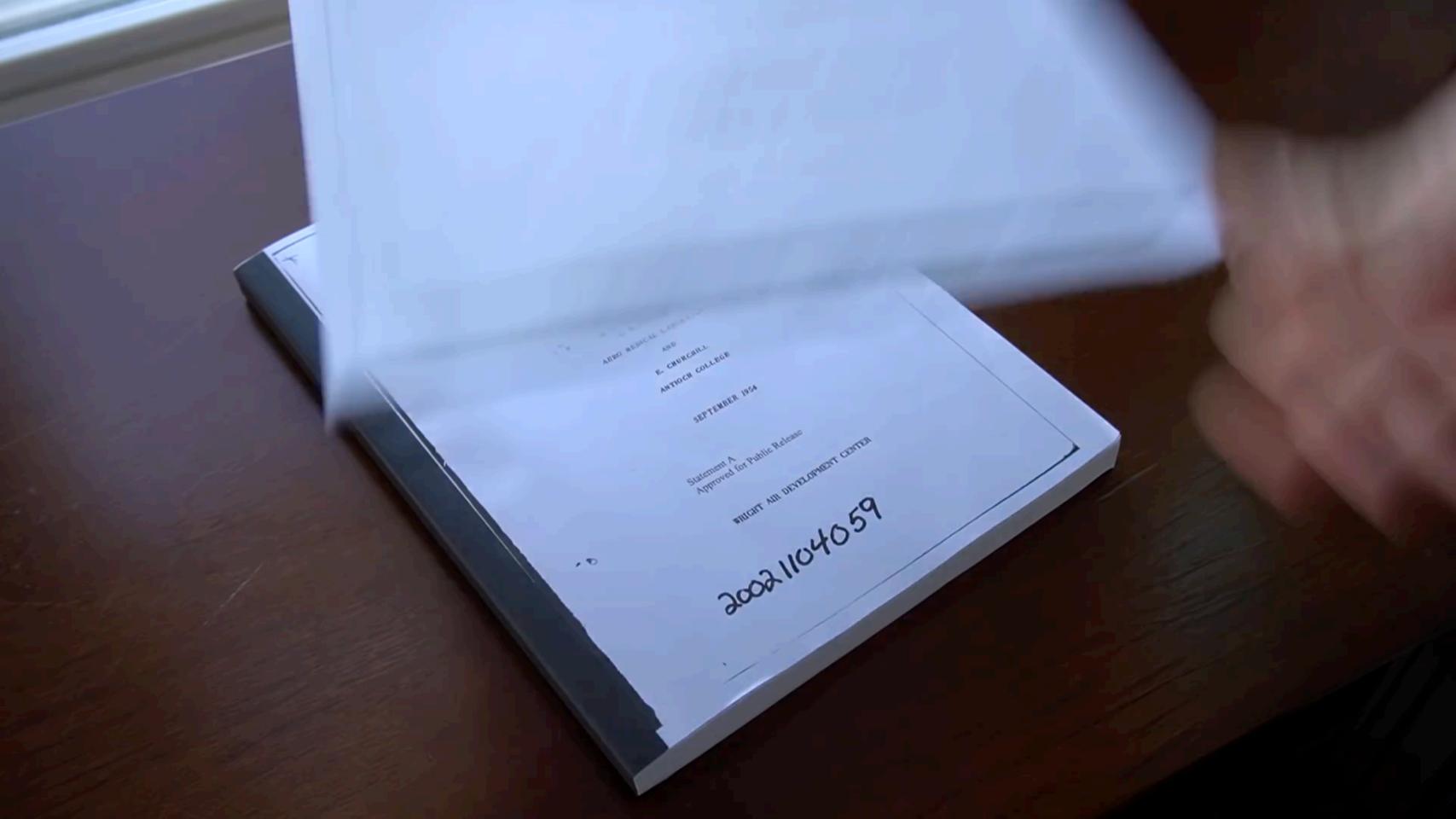
— Accessibility, Usability, and Inclusion (W3C/WAI)

Accessibility

- An *attribute* instead of a method.
- Focuses on accessibility standards.
- · A foundation for building inclusive solutions.

Inclusive Design can focus on accessibility and have a universal design as an outcome.

Does the Average Person Exist?



Thanks Matt!

- On YouTube: Does The Average Person Exist?
- Twitter: @standupmaths

is the Same

Aspects of Human Diversity

- 1. Language
- 2. Culture
- 3. Gender
- 4. Race
- 5. Age
- 6. Ability & Disability
- 7. Other forms of human difference

One size – fits one.

Inclusive design doesn't mean you're designing one thing for all people.

— Susan Goltsman

You're designing a diversity of ways to participate so that everyone has a sense of belonging.

— Susan Goltsman

Beware of your own biases!



Pavel A. Samsonov



Everyone: the racist, sexist, violent system has failed us

Tech bros: idk, it works on my machine

3:06 PM · Aug 17, 2020 · Twitter Web App

1K Retweets and comments 4K Likes









It's easy to generalize from one's own experiences.

And invalidate other's experiences

Aspects of Human Diversity

- 1. Language
- 2. Culture
- 3. Gender
- 4. Race
- 5. Age
- 6. Ability & Disability
- 7. Other forms of human difference

Aspects of Human Diversity

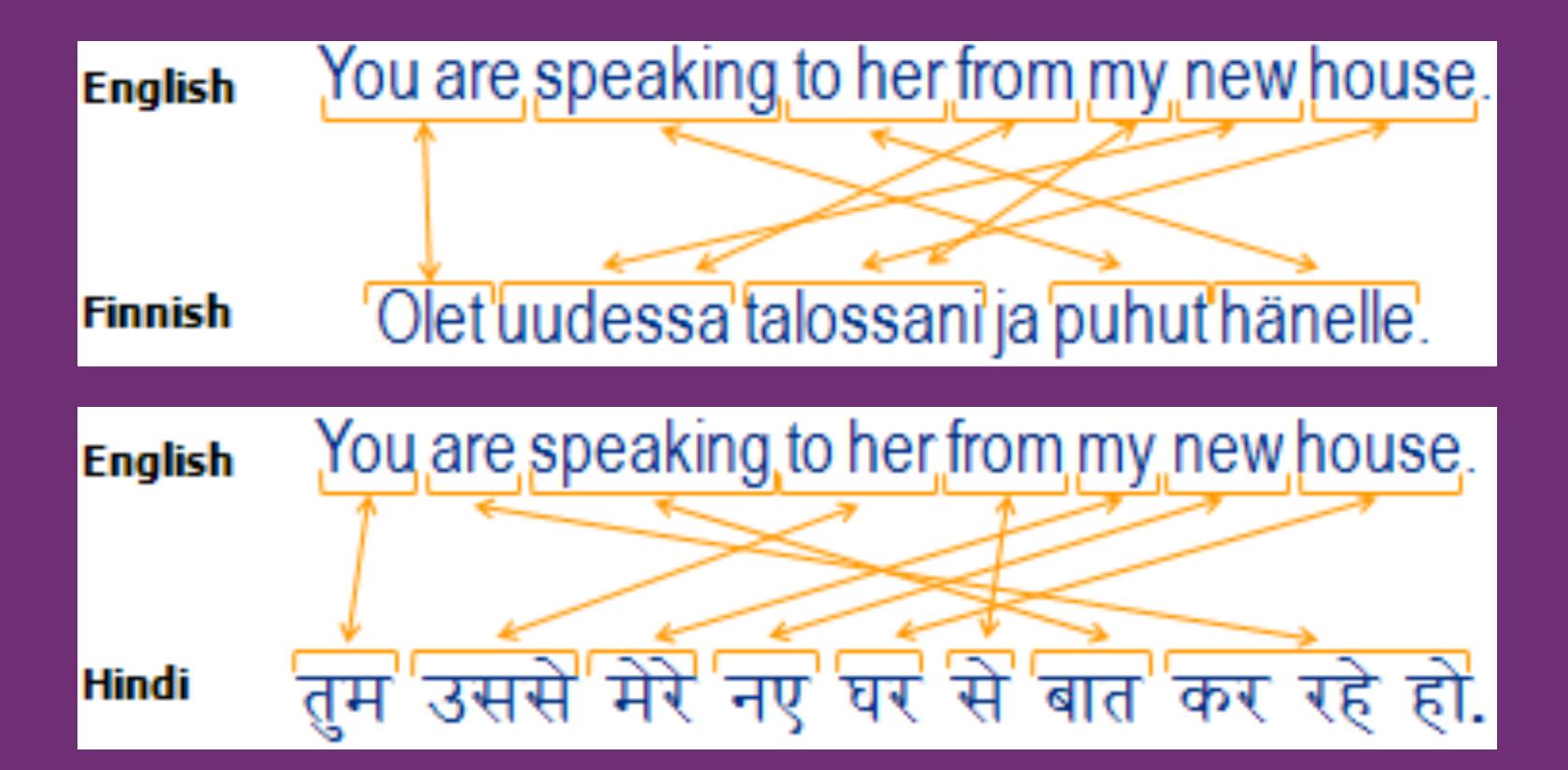
Language

in Arabic. مفتاح معاییر الویب The title is

Source: Internationalization - W₃C

盟

Source: Internationalization - W3C



Language

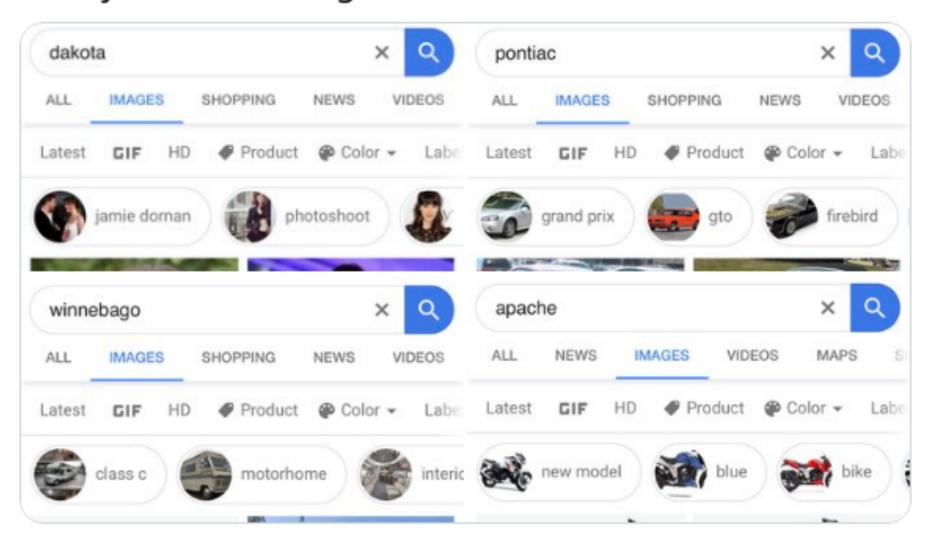
Awareness for speakers of other languages helps to shape content.

- Do we need text for this?
- Can we support our content with illustrations, animations or videos?
- Can this be written simpler or more descriptive?
- Is there an appropriate symbol?

Aspects of Human Diversity



Erasure is complete when they say your name and you're no longer remembered.



8:39 PM · Aug 29, 2020 · Twitter Web App

13.7K Retweets and comments 56.1K Likes





Cultural insensitivity is actively hurtful.

What does this symbol mean:



Source: Internationalization - W3C

COLORS by Culture

ORANGE

BROWN

YELLOW

GREEN

BLUE

PURPLE

RED

BLACK

WESTERN Culture

Depression

Trust

Calm



Harvest Warmth Affordable



Comfort Stability



Happiness Caution



Luck Jealousy Greed



Royalty Spirituality Wealth



Love Danger Action



Intimidation Death Mourning



FAR EASTERN Culture



Happiness Spirituality Adaptability



Earth Industrious Mourning



Royalty



Fertility Hope Life



Feminine Healing Relaxation



Wealth Privilege Spirituality



Prosperity Good Fortune Vitality



Health Prosperity Stability

INDIAN Culture



Sacred Courage Love



Mourning



Auspicious



Hope Harvest Virtue



Sports Strength



Sorrow Comfort Nobility



Beauty Wealth Power



Evil Darkness Negativity

MIDDLE EASTERN Culture



Mourning Loss











Hope



Spirituality



Royalty





Evil

Mourning



Rebirth

INDIA ITALY death, mourning, humility mystery, anger

BLACK WHITE WESTERN WESTERN death, evil, sin, funerals, mourning rebellion elegance, sophistication. formality, power, control EASTERN EASTERN wealth, prosperity, health, masculinity, knowledge, mystery, evil, mourning EUROPE EUROPE purity, cleanliness, mourning, death, evil, emptiness neutrality formality, elegance. sophistication MIDDLE EAST purity, mourning rebirth, evil, mystery AFRICA AFRICA victory, purity age, wisdom, maturity, masculinity CHEROKEES peace, happiness BRAZIL sophistication, authority mourning, religion, formality CHINA CHEROKEES misfortune problems, death, represents the West INDIA CHINA trust, high quality,

color for young boys

laziness, anger, intolerance, apathy, evil, darkness, negativity lack of desirability

JAPAN night, unknown, nonbeing,

S. KOREA darkness, mystery, mourning

THAILAND unhappiness, bad luck, evil

> AUSTRALIAN ABORIGINES ceremonial color

purity, peace, elegance, wedding color brides angels, doctors, antiseptic

death, mourning, funerals, sadness, purity, age. unhappiness, misfortune

antiseptic, surrender

MIDDLE EAST

represents the South

death, mourning, virginity, purity, humility, age,

creation, rebirth, light serenity, reincarnation. peace, purity, unhappiness widow, death, funerals

> IRELAND leisure, sports, peace

> > ITALY virtue, purity

INDIA JAPAN death, mourning

S. KOREA purity, innocence, morality, birth & death,

GREEN

WESTERN happiness, joy, hope, optimism, creativity, energy, awareness, hazards, warning, weakness, femininity

FASTERN sacredness, sovereignty earth, power royalty sun. happiness, masculinity

FUROPE happiness, joy, quality, weakness, hazard, warning

MIDDLE EAST happiness, prosperity

resurrection, rebirth

honor, masculinity

AFRICA wealth, high rank, religion, ceremony, visibility AUSTRALIA

CHINA sacredness, sovereignty, nourishment, royalty

EGYPT soul, sun, happiness, prosperity, mourning

> FRANCE summer, joy, jealousy

merchants, sacredness, auspiciousness, peace, happiness, meditation, mental development

JAPAN

refinement, aristocracy,

cheerfulness

MEXICO

GREECE

sadness

courage, nobility, beauty,

THAILAND purity, auspiciousness

> mourning NETHERLANDS food

SAUDI ARABIA strength, reliability

THAILAND Buddhism, royalty, auspiciousness, color for Monday

BLUE

BELGIUM

baby girls

CHINA

immortality, femininity

EGYPT

truth, justice, virtue, faith,

protection, reproduction

FRANCE

water, reliability, trust

WESTERN WESTERN nature, spring, new birth, trust, lovalty, authority, regeneration, luck, go. conservatism business. environmental awareness. peace, calm, depression. money, jealousy, greed, sadness, masculinity Saint Patrick's Day

EASTERN EASTERN immortality wealth eternity, new life self-cultivation regeneration, family health, prosperity, peace EUROPE

truth, responsibility EUROPE fidelity, serenity nature, fertility, confidence, jealousy, inexperience

MIDDLE EAST Islam, strength, fertility, luck, wealth, prestige

CHINA spring, youth, birth, infidelity exorcism desirability, disgrace

EGYPT hope, spring, fertility

Islam, hope, new beginnings, nature, harvest, virtue, happiness

> INDONESIA a forbidden color

> > ISLAM

perfect faith

ISRAEL

bad news

JAPAN

eternal life, youth

S. KOREA

youth, energy

NORTH AFRICA

corruption

SAUDI ARABIA

wealth, prestige

SOUTH AFRICA

death

THAILAND

color for Wednesday

INDIA heavens, love, truth, IRELAND mercy, strength, bravery, Ireland - the Emerald Isle, manliness, determination patriotism, nationalism

> INDONESIA sadness

heaven, spirituality, mourning, immortality

ISRAEL

coat of arms ITALY mourning, heaven, purity

S. KOREA integrity, mourning

MEXICO

trust, serenity, mourning THAILAND color for Friday

TURKEY healing, wealth, repels evil

WESTERN rovalty, spirituality, faith wealth, fame, high-ranking positions of authority luxury, calm, magic

PURPLE

EASTERN wealth, nobility, privilege sorrow, mourning

EUROPE royalty, nobility, luxury, power, vanity

MIDDLE EAST MIDDLE EAST safety, protection

BRAZIL traditionally used for death, mourning

CHEROKEES virtue, faith defeat, trouble FRANCE

> freedom, peace INDIA sorrow, unhappiness

EGYPT

ITALY death, mourning, endurance of suffering, nobility

> JAPAN wealth, privilege, power, royalty

THAILAND death, mourning, widows, color for Saturday

RED

WESTERN

Valentine's Day

EASTERN

prosperity, good fortune,

happiness, worn by brides,

celebration, communism

EUROPE

visibility, cheapness,

loudness

MIDDLE EAST

AFRICA

death, mourning

CHINA

WESTERN love, romance, femininity, stop, danger, anger, blood, childhood babies energy, excitement, action, nurturina, sweetness. adventure, love, passion, Valentine's Day

EASTERN marriage, femininity

PINK

EUROPE baby girls, delicate, flirtation, sensitivity, serenity, femininity

BELGIUM traditionally used for baby boys

both males & females

JAPAN spring, femininity, youth, good health, well-liked by

> S. KOREA trust

THAILAND color for Tuesday ORANGE

WESTERN adventure creativity caution, construction, harvest, autumn, affordability, Halloween (with black)

EASTERN love, happiness, spirituality,

humility, good health, immortality

purity, cleanliness, good MIDDLE EAST

mourning, loss danger, caution, evil AUSTRALIA

> animals BRAZIL environment

> > INDIA

the most sacred color.

purity, courage, sacrifice,

religious abstinence,

death, rebellion

IRELAND

religious color for

Protestants, appears on

the Irish flag along with

white for peace & green

for Catholics

JAPAN

good fortune, happiness, celebration summoning, vitality, FRANCE prosperity. Iona life. earth wedding color

ENGLAND power, authority, aovernment

FRANCE passionate love, lust, virility

light, fidelity

JAPAN

life, fertility, passion,

strength, anger, danger

self-sacrifice

S. KOREA

good fortune, passion

NETHERLANDS

nature, government, royalty

RUSSIA

communism, revolution, wedding color

> THAILAND Buddhism.

color for Sunday

TURKEY

death

INDIA purity, love, sensuality, fertility, beauty, wealth, power, wedding color, married woman, fear, fire

love, happiness, courage ITALY

> NETHERLANDS royalty, color of the Dutch royal family

> > THAILAND color for Thursday

BROWN

WESTERN energy, vitality, excitement, comfort, stability, practicality, wholesomeness, dullness, fertility, organic, earthiness, poverty

> EASTERN earth, mourning

EUROPE masculinity, earth

MIDDLE EAST earth, comfort

> AFRICA earth

AUSTRALIA color of the land

> BRAZIL nature

CHINA earth

INDIA color of mourning INDONESIA

earth JAPAN earth, strength, durability

> NICARAGUA disapproval

Source: six-degrees.com

[... R]ed is lucky for Chinese people. [...] Thai people will be offended if you print their name in red — it's the color that monks employ to write names on coffins, so to write someone's name in red is to "wish them dead".

— Bruce Lawson, Notes on Designing Websites for the Asian Market

Cultural Identity

- The identity or feeling of belonging to a group.
- · Group of people sharing the same cultural identity or upbringing.
- Heavily impacted by a person's cultural arena, the place where a person lives.
- Immigrants adjust to the culture of the country they immigrated to linearly over time.
- It is possible to have the ability to obtain competence within two cultures without losing one's sense of identity or having to identity with one culture over the other.

Cultural Identity

Issues can arise when...

- · ...the majority culture is assumed by default.
- ...designs created in one cultural environment get transplanted into a different environment.



My last name isn't valid because two letters.

The irony of this... is someone who is Asian probably built parts of this app. How did they not catch this..?

Shirley					
Patient'	s last na	me			
Wu					
Enter a	valid la	st name.			
	. 1 2020	witter for iP	hono		

Hello my name is



Aspects of Human Diversity

Gender

Gender is the range of characteristics pertaining to, and differentiating between, masculinity and femininity.

— Wikipedia

Depending on the context, these characteristics may include biological sex, sex-based social structures (i.e., gender roles), or gender identity.

— <u>Wikipedia</u>

Tatiana Mac

Tatiana Mac (she/they) is an independent American engineer and open source maintainer who created and is building *Self-Defined*, a modern dictionary about us; and *Devs of Colour*, a database that will prioritise finding undiscovered Black/brown talent through a thoughtful search algorithm.

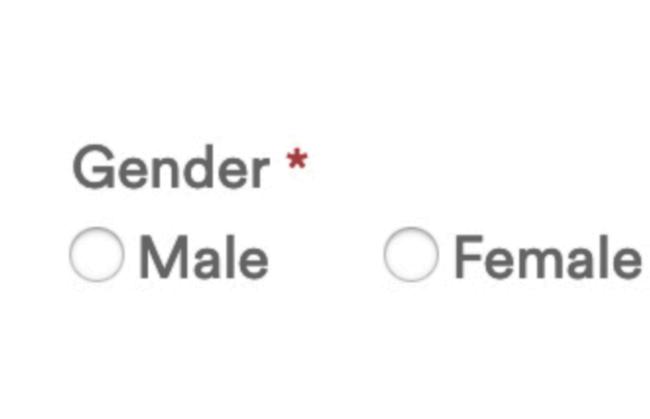
As a consultant, she works directly with organisations to build clear and coherent products and design systems.

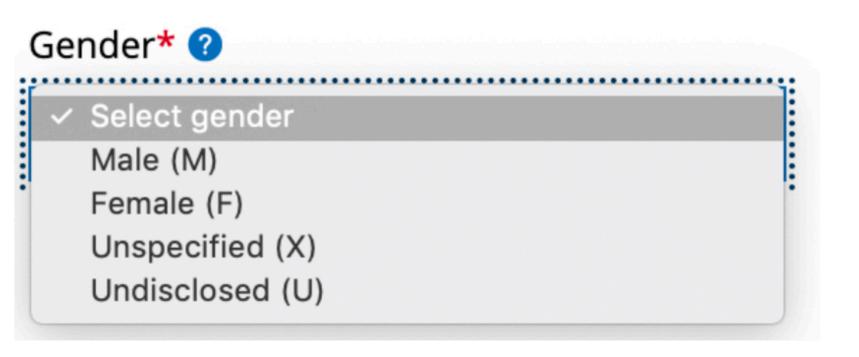
She believes the *trifecta of accessibility, performance, and inclusion* can work symbiotically to improve our social landscape digitally and physically. When ethically-minded, she thinks technologists can dismantle exclusionary systems in favour of community-focused, inclusive ones.

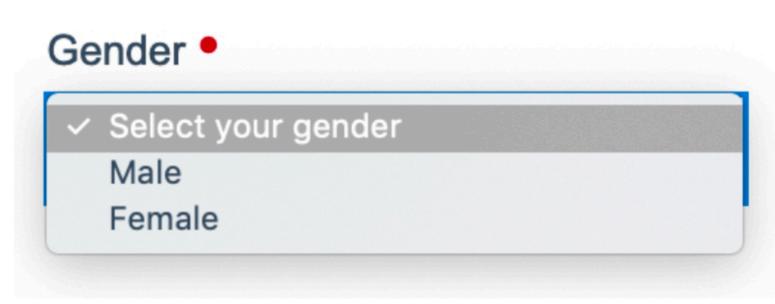


Actific ONLONIC











Sustains bad practices, defines systemic issues

Positive feedback loop

Exclusionary Atoms

Introduces bad pattern, driven by systemic flaws

Perpetuated Exclusion^{*}

^{*}unintentional

Gender Pay Gap



Aspects of Human Diversity





On the word "Race" in modern Germany

- Basically unused in day to day life.
- No biological basis for "races". Sometimes people considered "one race" have more genetic variability than people of "different races".

Und doch existieren "Menschenrassen" tatsächlich. Nicht als biologische Fakten, sondern als - unbewusste - Denkstrukturen und Urteile in unseren Köpfen.

— <u>Ulrich Kattman (Bundeszentrale für Politische Bildung)</u>

And yet "human races" actually exist. Not as biological facts, but as – subconscious – thinking structures and judgements in our minds.

— <u>Ulrich Kattman (Bundeszentrale für Politische Bildung)</u>

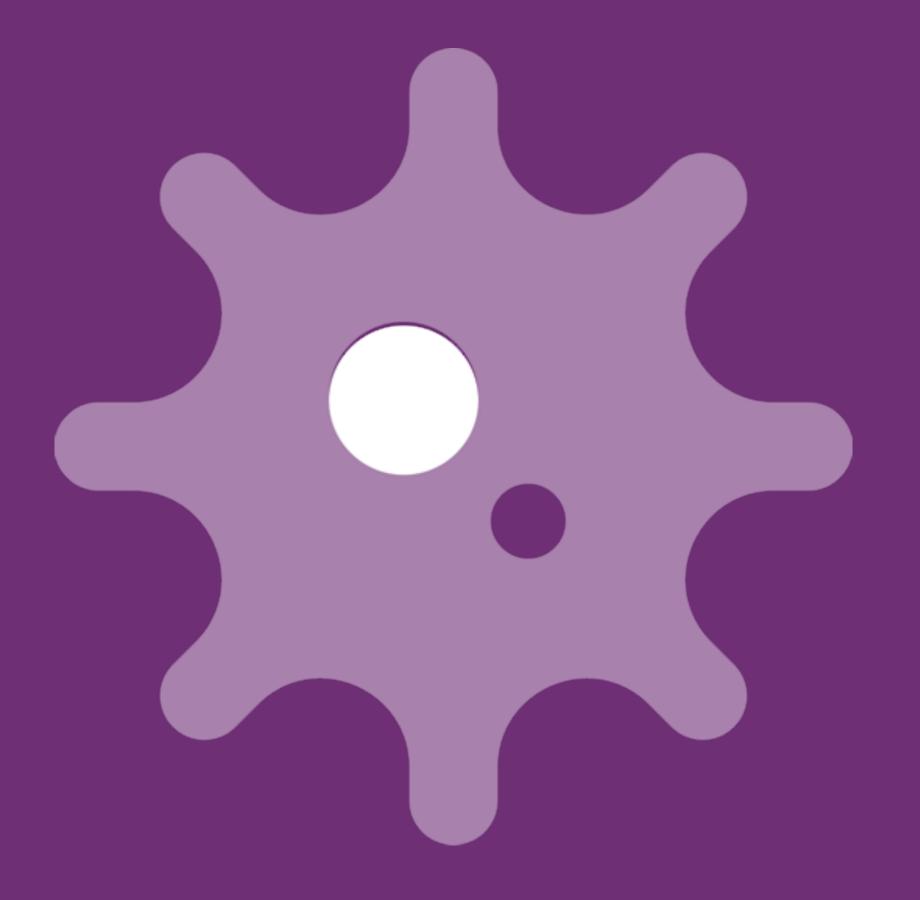
Many in Germany use words like "extreme right-wing" or "xenophobic" instead of "racist" because it is seen more as an ideology.

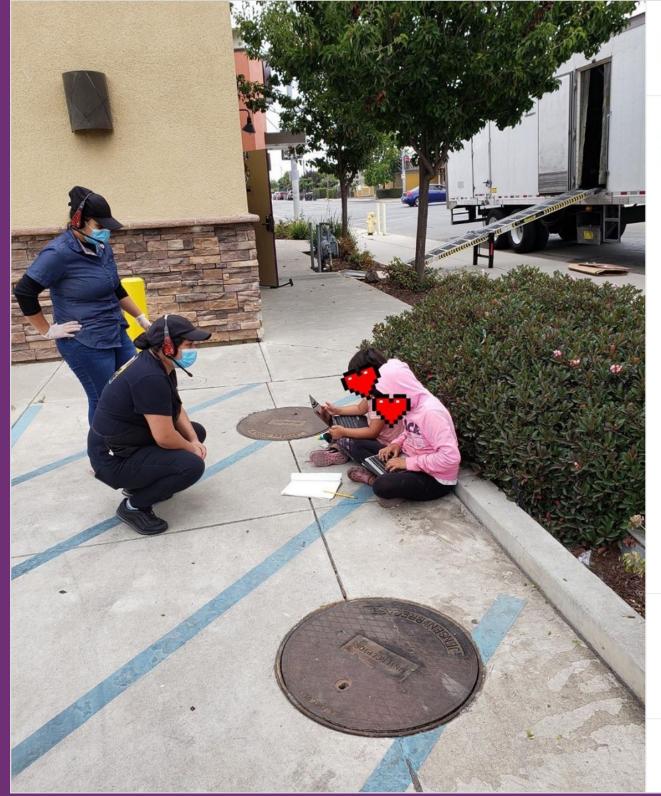
That means that racist acts are often not acknowledged as being racist.

That's a problem.

How does racism apply to inclusive design?

- Racism usually means a continuous, systematic discrimination.
- What can your product, your design, do to counteract that discrimination?
- Can you offer stipends or free tickets for members of groups that are targeted by racists?







ms_mamie89 • Follow

• •



ms_mamie89 My mom sent me this picture today. These 2 young girls were looking for a place with WiFi to do their school work so they sat near Taco Bell to connect to the free WiFi. A lot of us don't have to worry about having a proper WiFi connection or a quiet place to work from home. Every student from preschool through college should have free access to reliable WiFi especially now. What can we do as a community to pull together for students who need something as simple as WiFi in order to succeed? Please share and tag people in our community who can help. **UPDATE: THE GIRLS WERE IDENTIFIED** BY THEIR SCHOOL DISTRICT AND GIVEN HOTSPOTS! I'M SURE THERE ARE OTHER CHILDREN IN NEED, I AM

 \bigcirc





67,137 likes

4 DAYS AGO

Log in to like or comment.

[...] These 2 young girls were looking for a place with WiFi to do their school work so they sat near Taco Bell to connect [...]. A lot of us don't have to worry about having a proper WiFi connection or a quiet place to work from home. Every student from preschool through college should have free access to reliable WiFi especially now. What can we do as a community to pull together for students who need something as simple as WiFi in order to succeed? [...]

Update: The girls were identified by their school district and given hotspots! I'm sure there are other children in need, I am hoping they all get the tools they need! If local businesses would like to donate their space to set up outdoor internet cafes, please let me know. I would love to help rally up supplies and man power!

Aspects of Human Diversity

Ageism is discrimination because of your age.

The stereotypes and infantilization of older and younger people by patronizing language affects older and younger people's self-esteem and behaviors.

— Wikipedia

After repeatedly hearing a stereotype that older or younger people are useless, older and younger people may begin to feel like dependent, non-contributing members of society. They may start to perceive themselves [...] in the same ways that others in society see them.

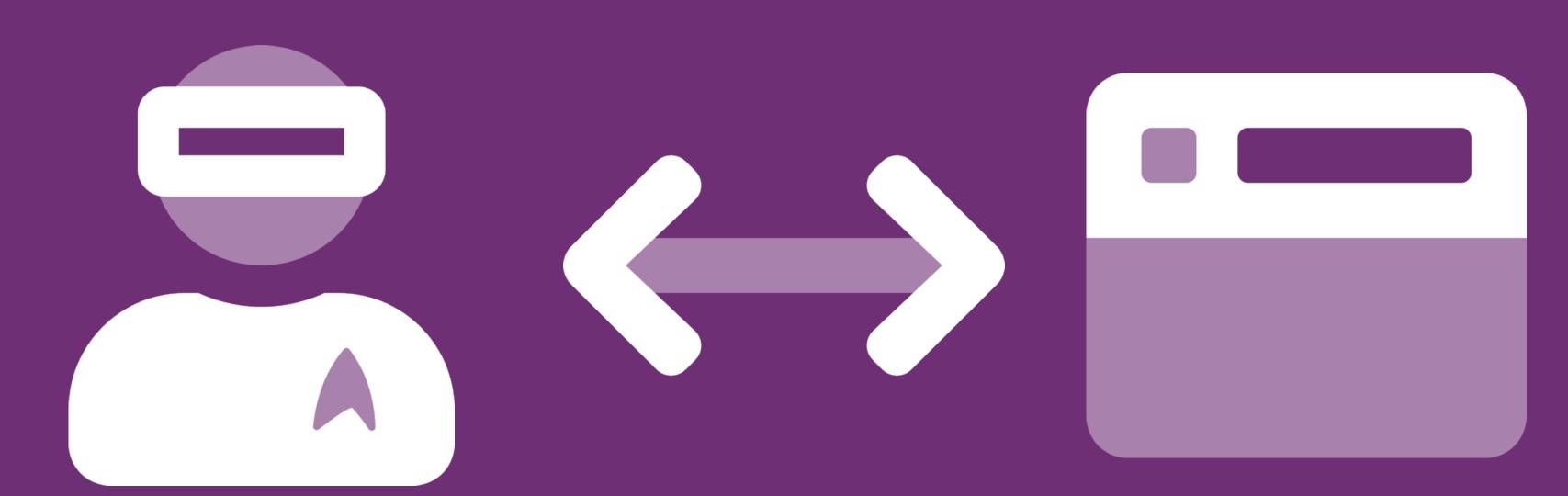
Studies have also specifically shown that when older and younger people hear these stereotypes about their supposed incompetence and uselessness, they perform worse on measures of competence and memory.

— Wikipedia

Common ageist assumptions:

- The person is too young to understand the big picture.
- The person is too old to handle technology.
- Millennials have it easy.
- Ageism is also inadvertently embedded in the ways that we generate statistics, for example through data collected based on large age categories (e.g., '60+') foisting anyone over 60 into "the grey zone" which obscures differences. (Wikipedia)

Aspects of Human Diversity Ability & Disability



You cannot talk about accessibility without talking about disabilities.



Love 2 b called "differently abled" because it suggests that I have some kind of paranatural ability beyond the ken of mortal man.

And I do, but you can still just call me "disabled". Promise.

11:39 PM · Nov 15, 2019 · Twitter Web App

10 Retweets 102 Likes













Talking & Planning

Talking & Planning Graphic Design (of an image of a website)

Talking & Planning
Graphic Design (of an image of a website)
HTML/CSS/JavaScript

Talking & Planning
Graphic Design (of an image of a website)
HTML/CSS/JavaScript
CMS

Talking & Planning
Graphic Design (of an image of a website)
HTML/CSS/JavaScript
CMS
Content

Talking & Planning Graphic Design (of an image of a website) HTML/CSS/JavaScript CMS Content Iterations

Talking & Planning Graphic Design (of an image of a website) HTML/CSS/JavaScript CMS Persons
Content or the Content of the Content o

Talking & Planning Graphic Design (of an image of a website) HTML/CSS/JavaScript CMS Person Content Con Hotfixes

Talking & Planning Graphic Design (of an image of a website) HTML/CSS/JavaScript CMS Persons Content Co Hotfixes

Talking & Planning Graphic Design (of an image of a website) HTML/CSS/JavaScript CMS Persons Content Co Hotfixes
Quality Control
Accessibility

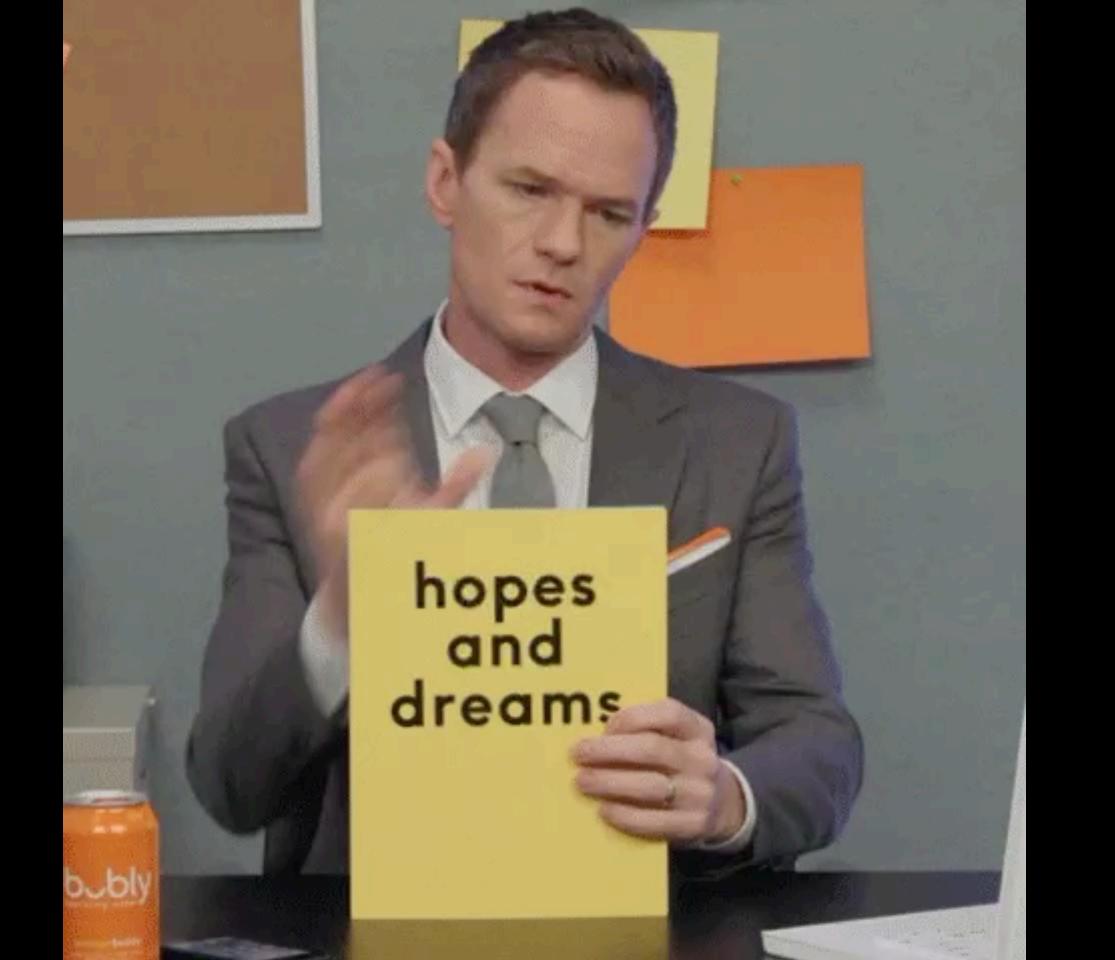
Talking & Planning Graphic Design (of an image of a website) HTML/CSS/JavaScript CMS Persons Content Co Hotfixes
Quality Control
Accessibility

Accessibility is a sign of good quality.

Designing inclusive software results in improved usability and customer satisfaction.

— Microsoft's app developer guide

Accessibility must be a foundational value



Accessible Web Development is Complicated

WebAIM Million Study

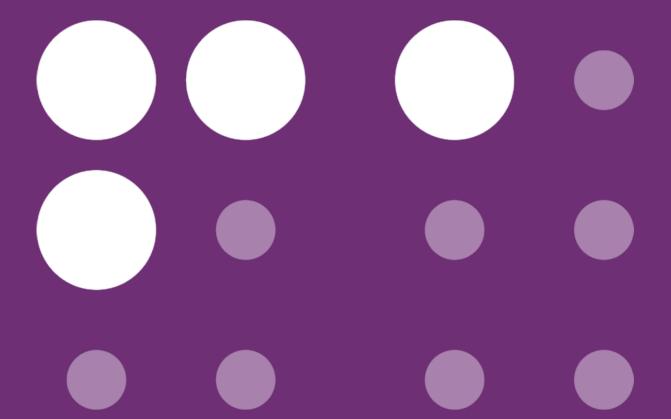
- 60% of the 1 million home pages had ARIA present.
- Home pages with ARIA present averaged 11.2 more detectable errors than pages without ARIA.
- Pages with a valid HTML5 doctype had significantly more page elements (average of 844 vs. 605) and errors (average of 61.9 vs. 53.3) than those with other doctypes.
- 2.1M layout tables were detected compared to only 114k data tables.

More Complex = Less Accessible

Taming complexity often comes with even more complexity



Screen Reader Differences



VoiceOver and Safari remove list element semantics when list-style: none is used.

— Scott O'Hara: "Fixing" Lists

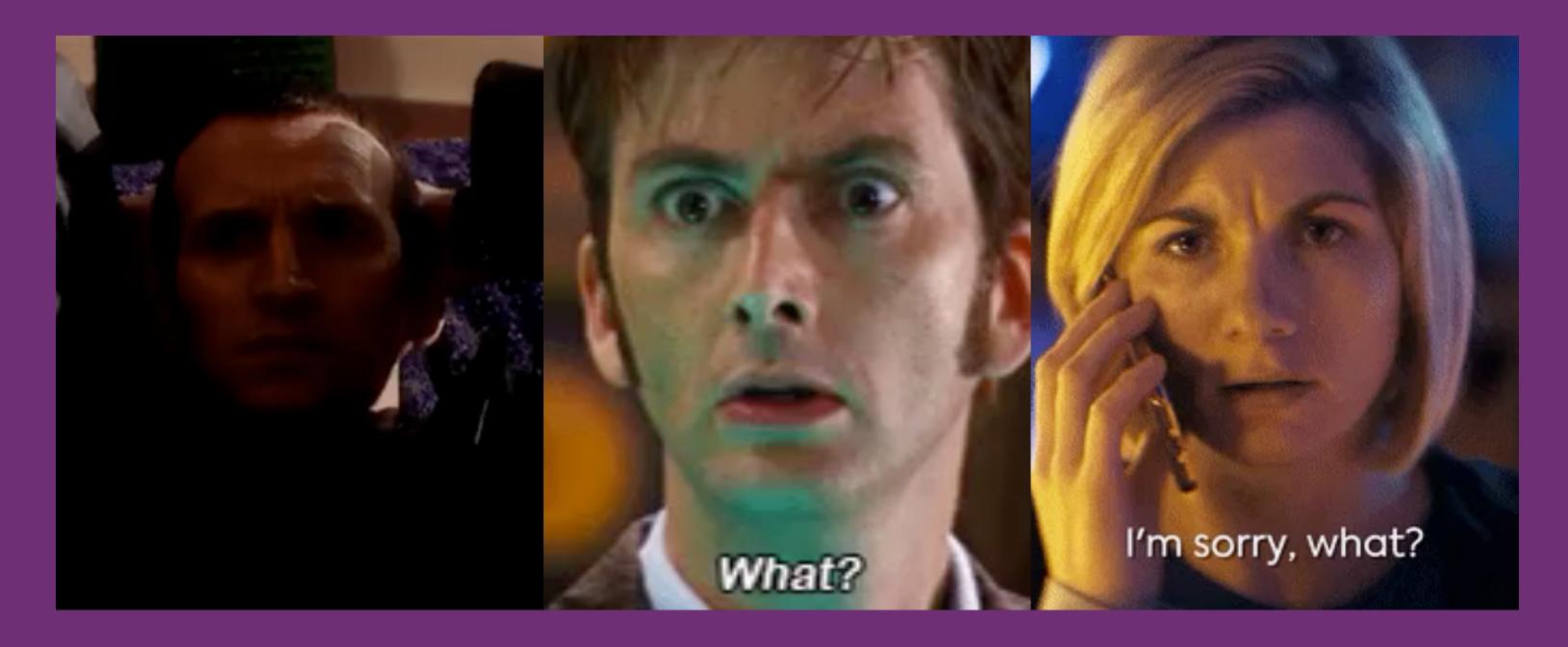
- Lorem ipsum dolor, sit amet consectetur adipisicing elit. Ex tempora omnis asperiores autem delectus necessitatibus iure illo. Beatae odio error recusandae vitae? Rerum aperiam porro cumque, maiores ducimus quae nulla.
- Eaque ea vitae voluptatum repudiandae reprehenderit magnam repellendus deleniti, quos voluptates autem odit assumenda ducimus corrupti nam ratione dolorem voluptatem dolore ipsam doloremque veniam. Quibusdam recusandae ipsam quae nihil quod?
- Ipsam, numquam provident explicabo, labore enim laborum iste soluta ad architecto ex fugit et quasi reprehenderit recusandae voluptatum temporibus placeat odio nemo commodi doloribus officia nisi. Aliquid est voluptates ab.

Lorem ipsum dolor, sit amet consectetur adipisicing elit. Ex tempora omnis asperiores autem delectus necessitatibus iure illo. Beatae odio error recusandae vitae? Rerum aperiam porro cumque, maiores ducimus quae nulla.

Eaque ea vitae voluptatum repudiandae reprehenderit magnam repellendus deleniti, quos voluptates autem odit assumenda ducimus corrupti nam ratione dolorem voluptatem dolore ipsam doloremque veniam. Quibusdam recusandae ipsam quae nihil quod?

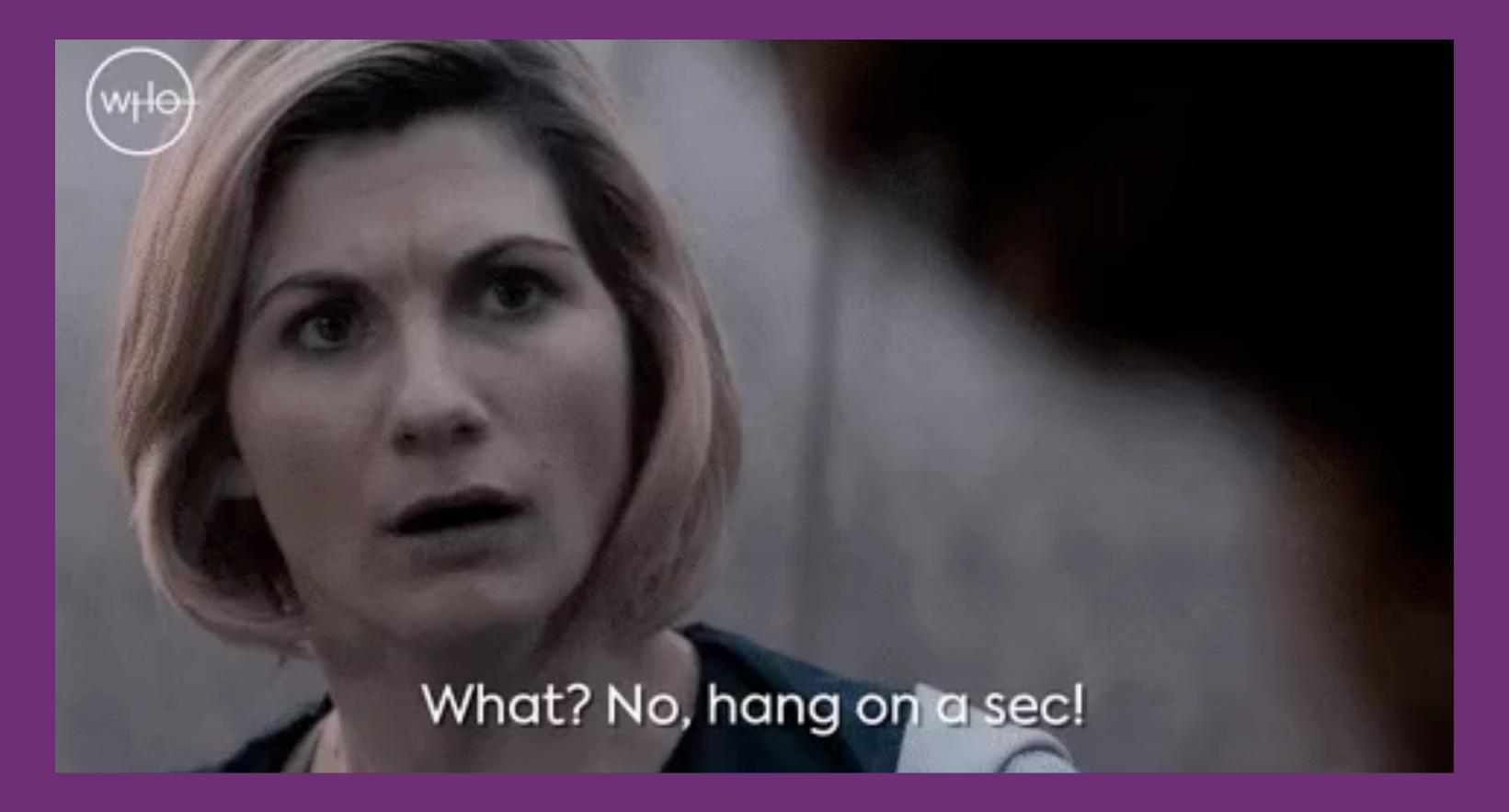
Ipsam, numquam provident explicabo, labore enim laborum iste soluta ad architecto ex fugit et quasi reprehenderit recusandae voluptatum temporibus placeat odio nemo commodi doloribus officia nisi. Aliquid est voluptates ab.

Web Developers



This was a purposeful change due to rampant "Ist"-itis by web developers.

— James Craig, Apple, bugs.webkit.org



What does it mean for me, as a web developer, that Safari is not reading lists, when they don't look like a list?

— John Doe-veloper

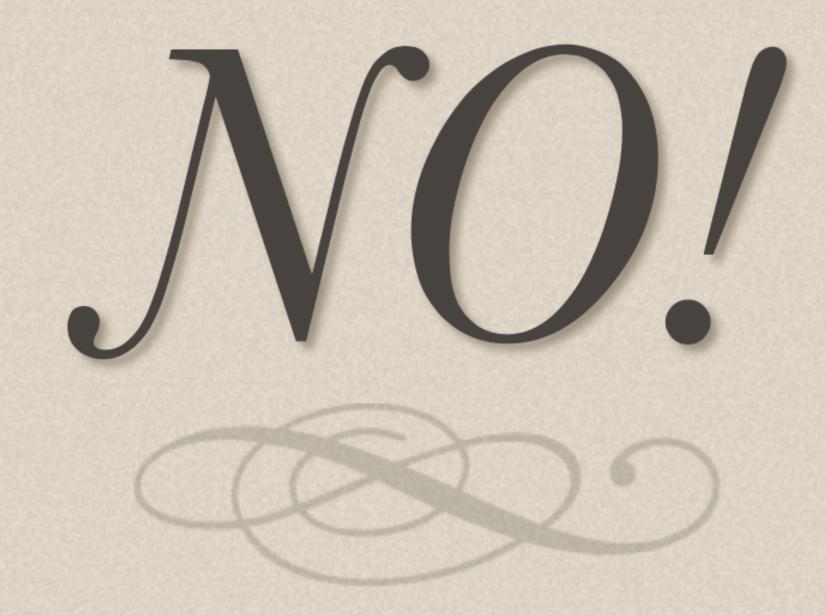
Nothing.

A Time Line

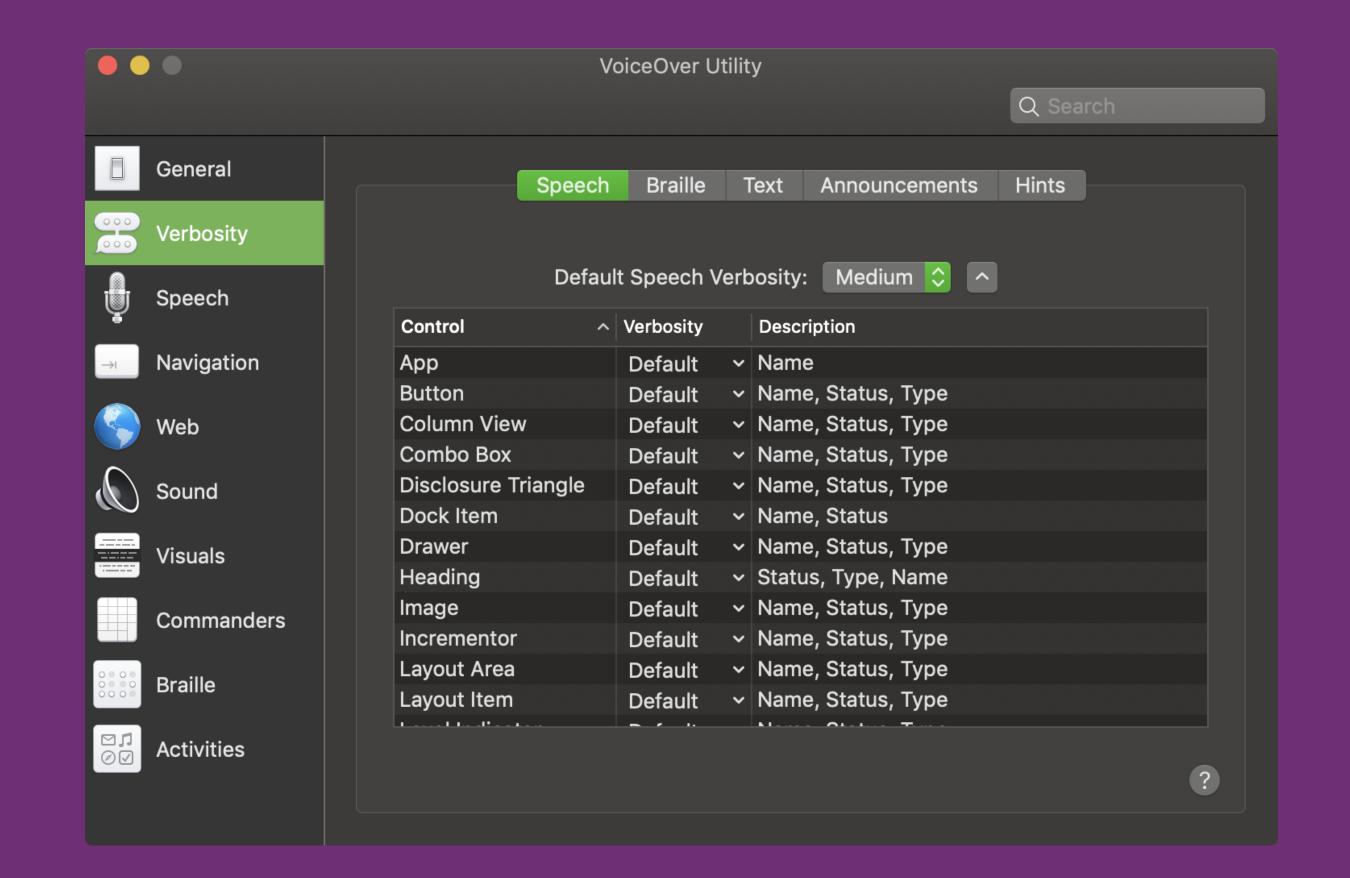
- 2014: First Commit
- 2015: Additional Code
- •
- 2019: The Web Notices

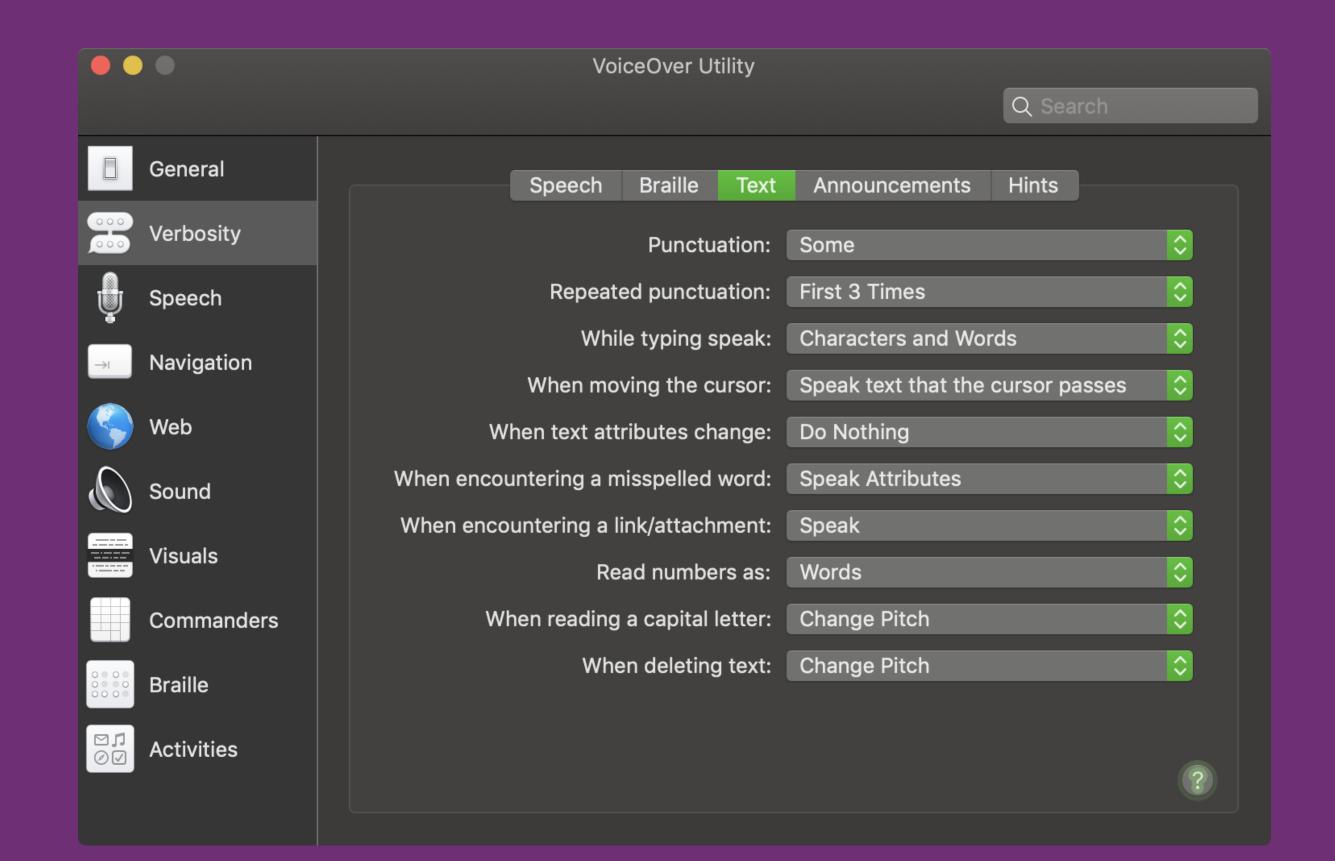
Customers seem much happier in the 3 years since this change went in.

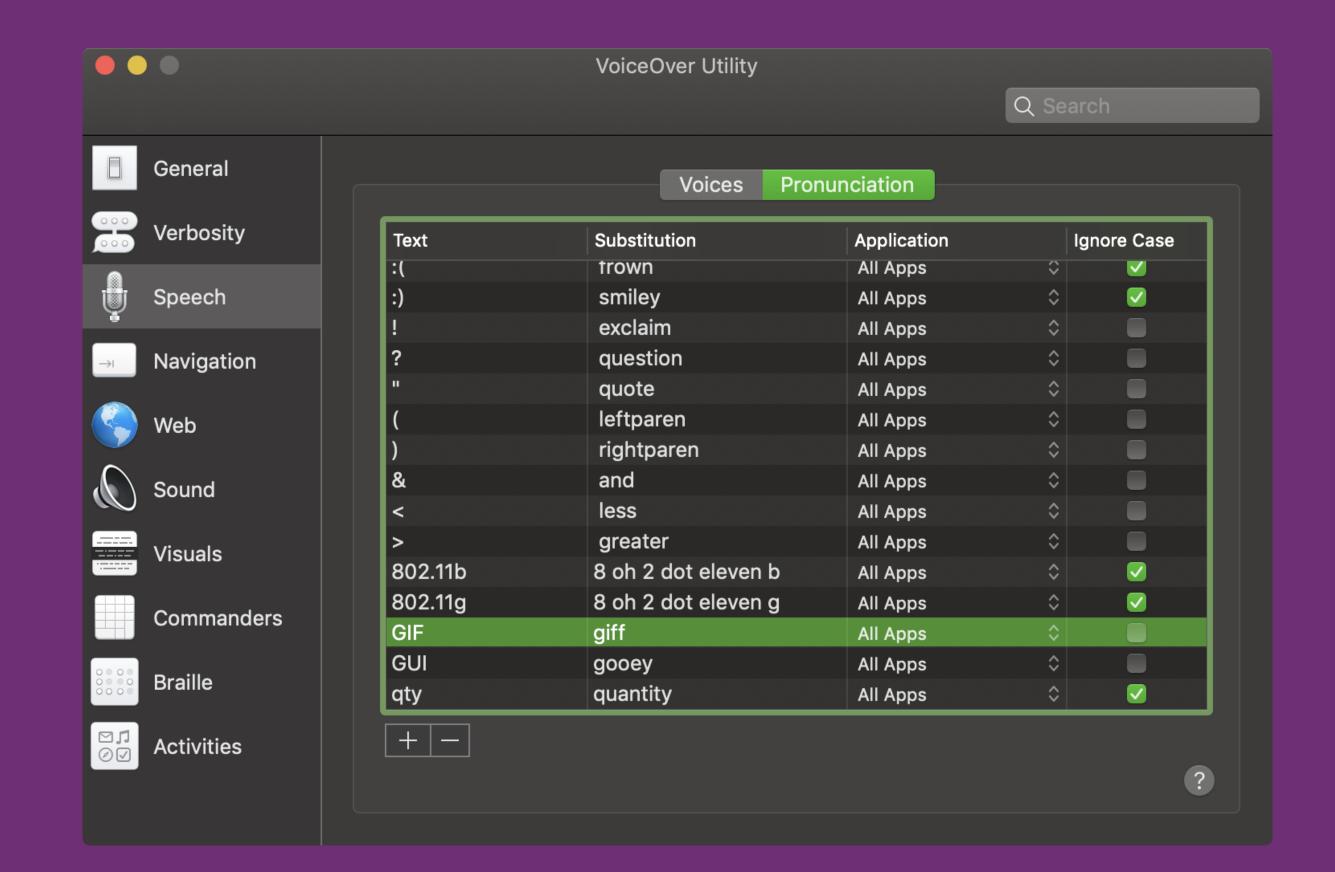
— James Craig, Apple, bugs.webkit.org



The same is true for screen readers: They don't all need to produce the same output.







There is no control.

ARIA can help, but not in every situation.

Accessible Rich Internet Applications

Accessibility is not only Screen Readers

Most non-screen reader assistive technology does not work well with ARIA.



High Contrast Mode

I'm a real link | As am I

I'm a placeholder link (no href)

I'm an ARIA link made out of a div

I'm an ARIA link made out of a button

I'm a paragraph of text with an ARIA link within me. Where I be?

courtesy of Eric Bailey

I'm a real link | As am I

I'm a placeholder link (no href)

I'm an ARIA link made out of a div

I'm an ARIA link made out of a button

I'm a paragraph of text with an ARIA link within me. Where I be?

Screen shot courtesy of Eric Bailey

Normal Button

aria-disabled button

Actually Disabled Button

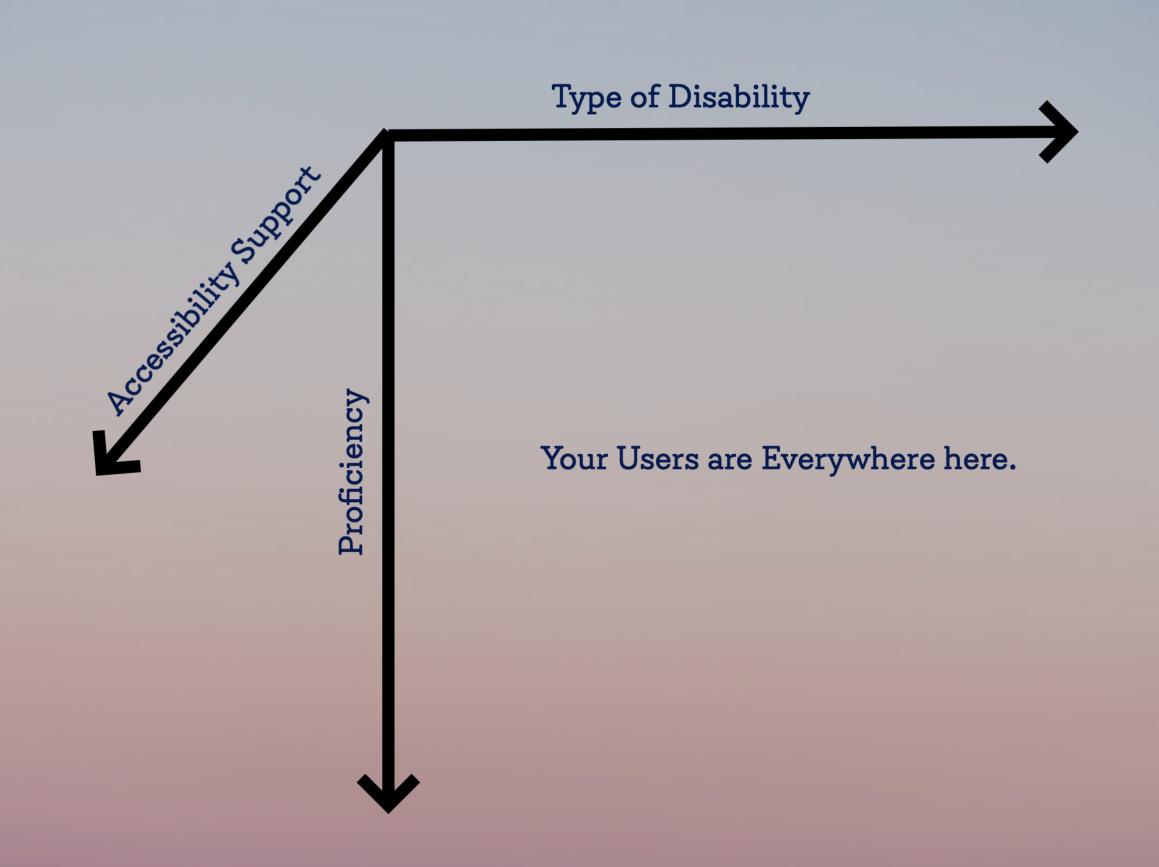
Difference of Tool Knowledge

Users often don't know what their computers can do for them.

Other users hack their assistive technology to work with inaccessible sites.

Some users write CSS and JavaScript to change websites to their needs.

User = Disability Type × Proficiency × Accessibility Support



Test with Diverse Users

Give Users Agency

Allow use of assistive technology that suits a particular user's needs.

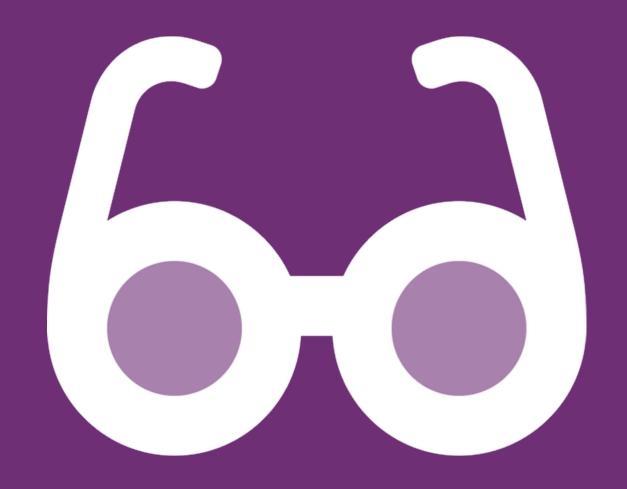
Try not to prescribe how to use a component.

Use HTML to describe elements.

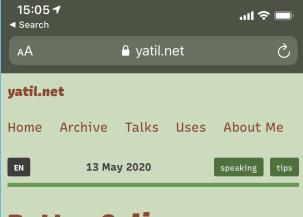
Don't expect any proficiency from users.

Don't break conventions!

Users get a lot more tools to use!



Reader Mode



Better Online Presentations

Here are some of the tips I have gathered from doing online Zoom talks since 2015. I hope they help with your talk as well.

Sound

The sound on Zoom meetings is usually really compressed to be efficiently transmitted to the attendees, therefore investing into sound gear should not be the highest priority. That said, clear, intelligible sound is much more important than everything else. If you're hard to understand or if there's a constant noise

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Always use headphones. I have seen guidance that headphones look amateurish, but that is not true from my point of view. You want to understand audience questions or your moderator. That's just much more reliable when they are actually in or on your ears.

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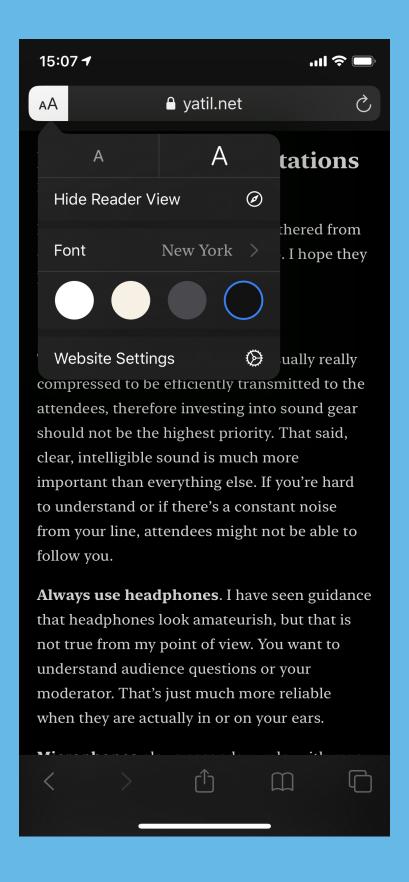








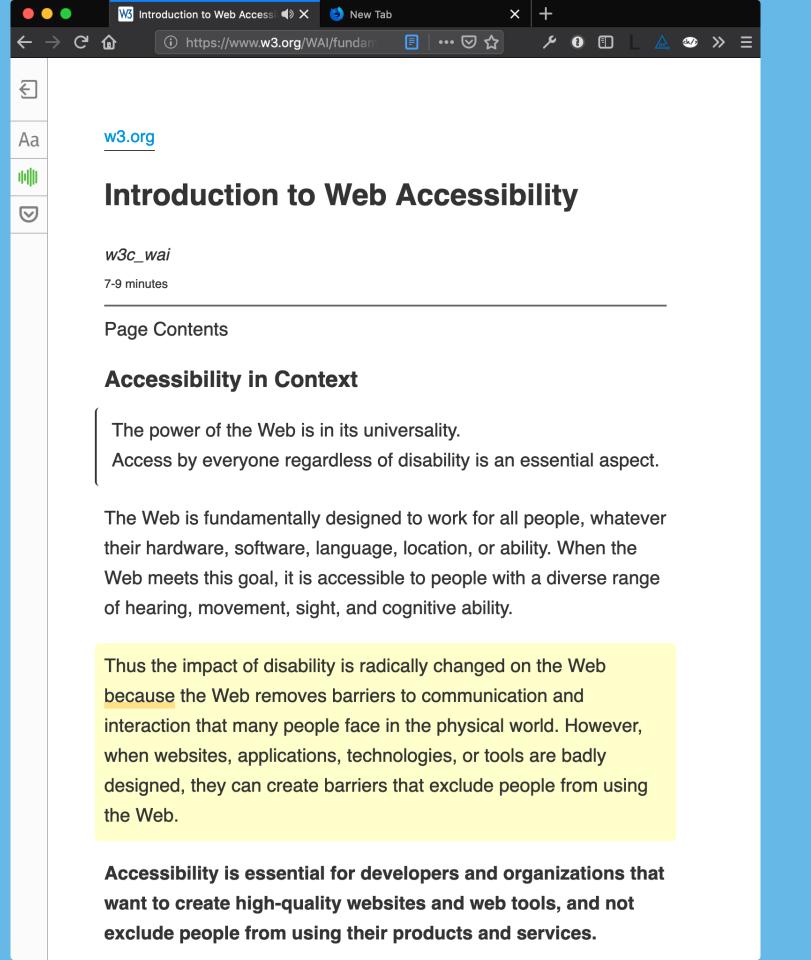
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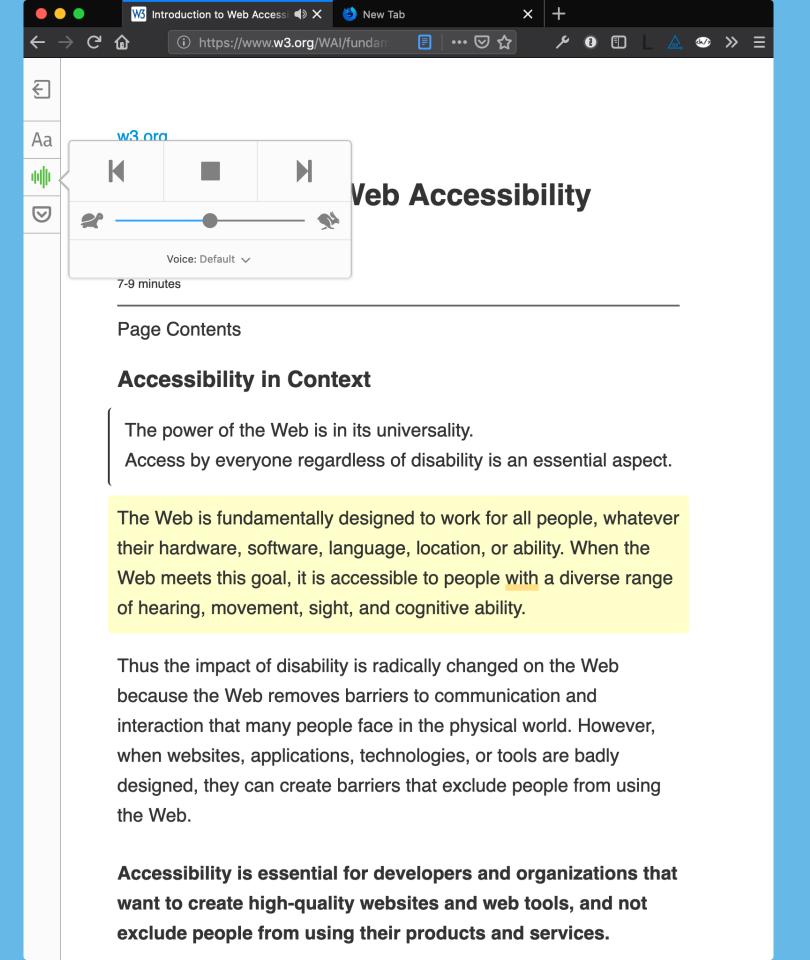


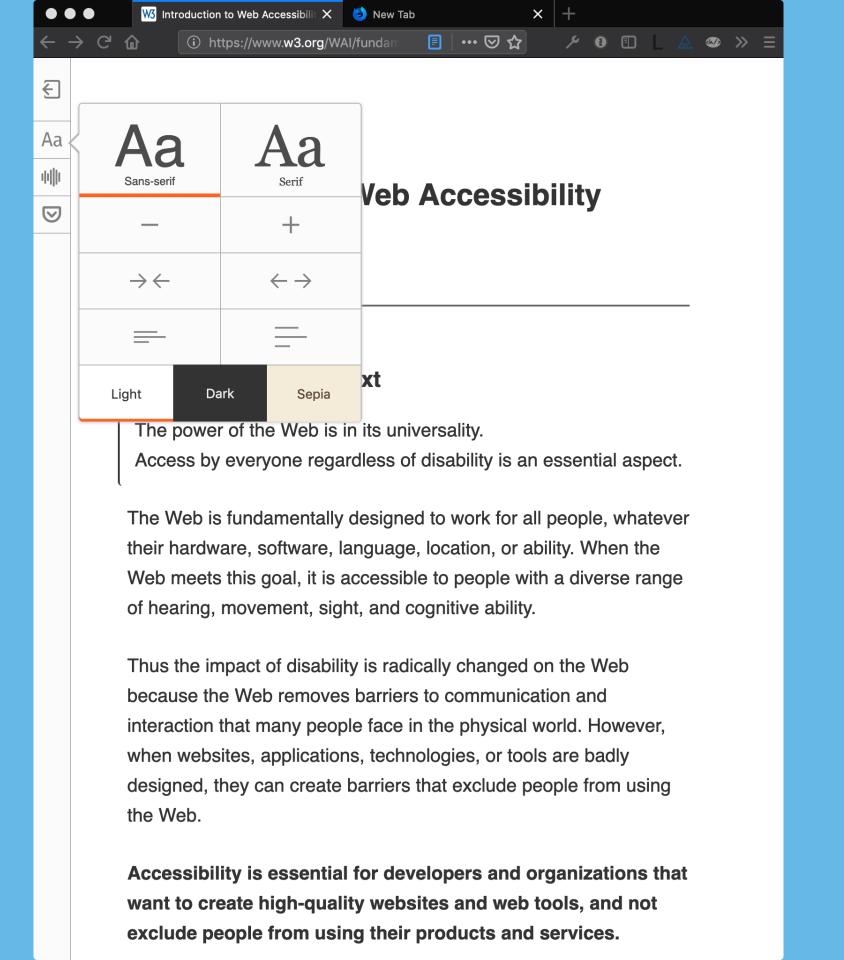
Reader Mode

Native Support:

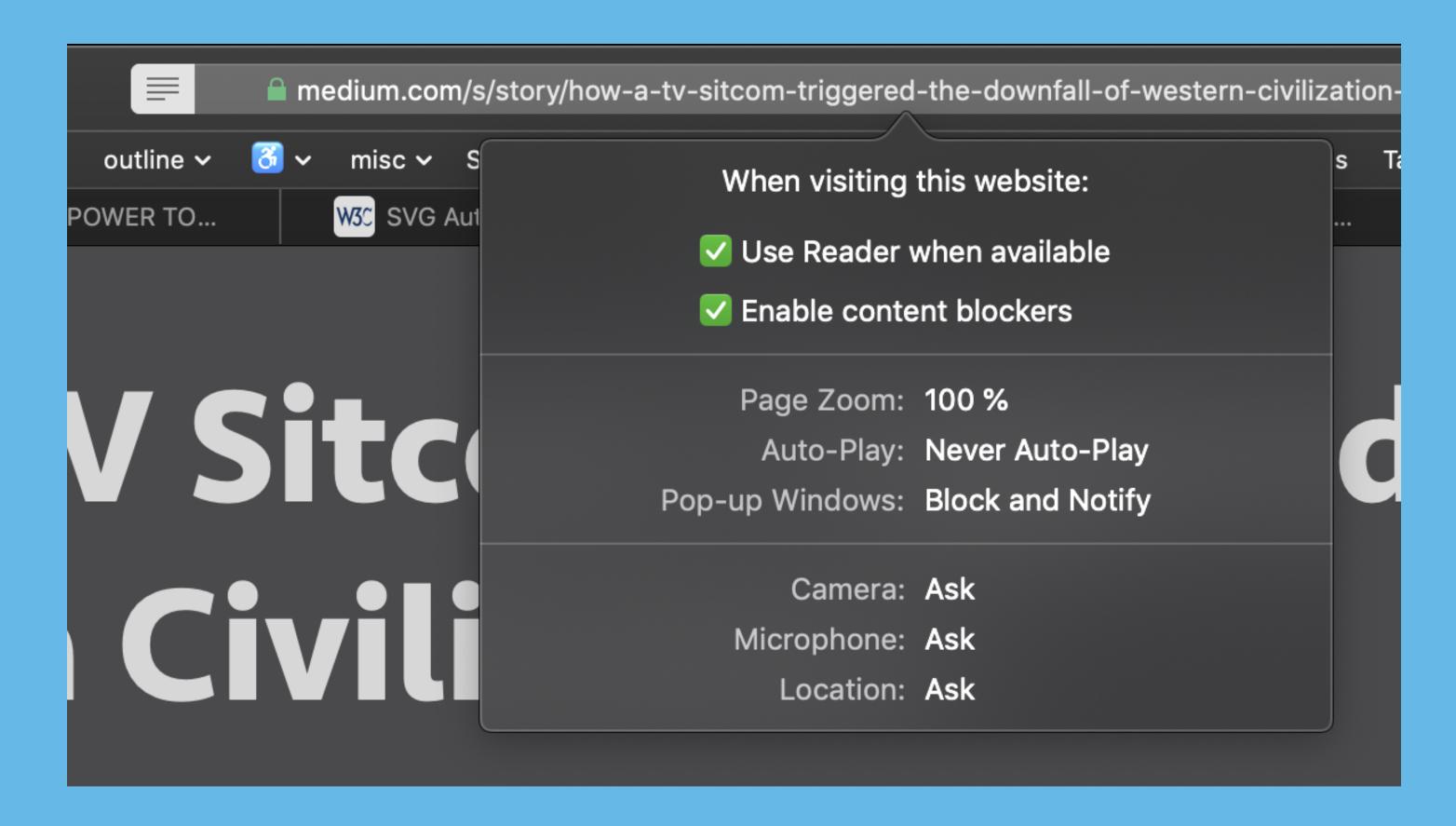
- Safari (since 2010, can set to default since 2015)
- Firefox (2015)
- Edge (2015)
- Chrome (soon????)

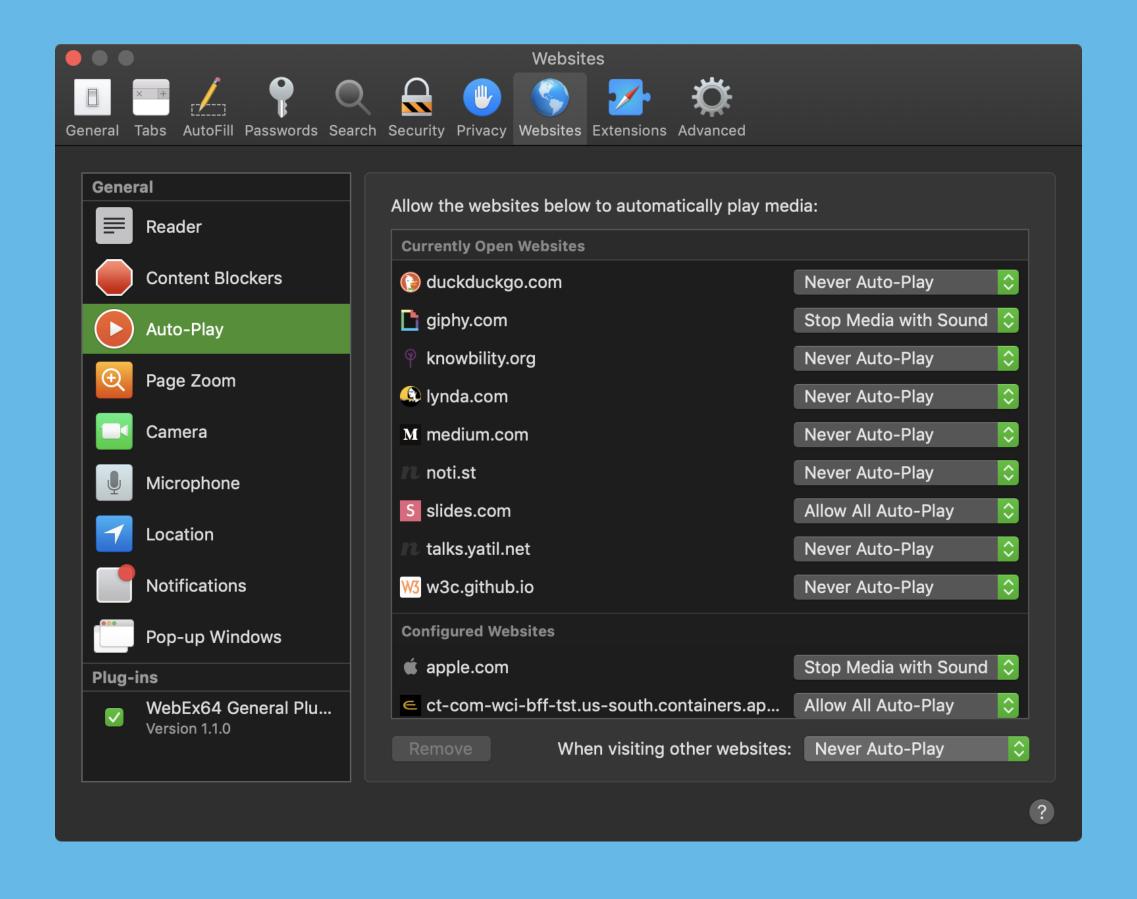




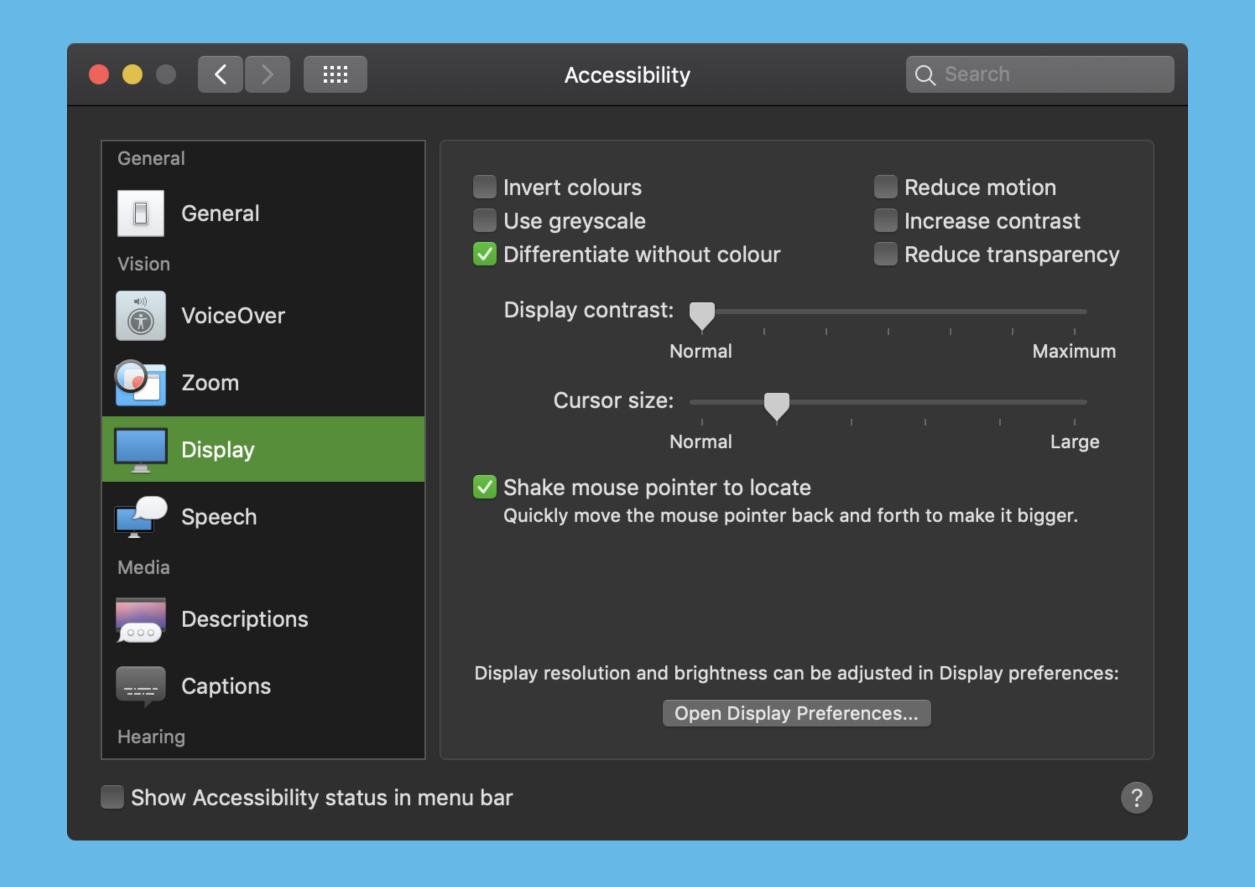


More Website Settings





Leveraging Preferences in the Operating System



prefers-reduced-motion Media Query

```
@media (prefers-reduced-motion: reduce) {
    * {
        transition: none !important;
        animation: none !important;
    }
}
```



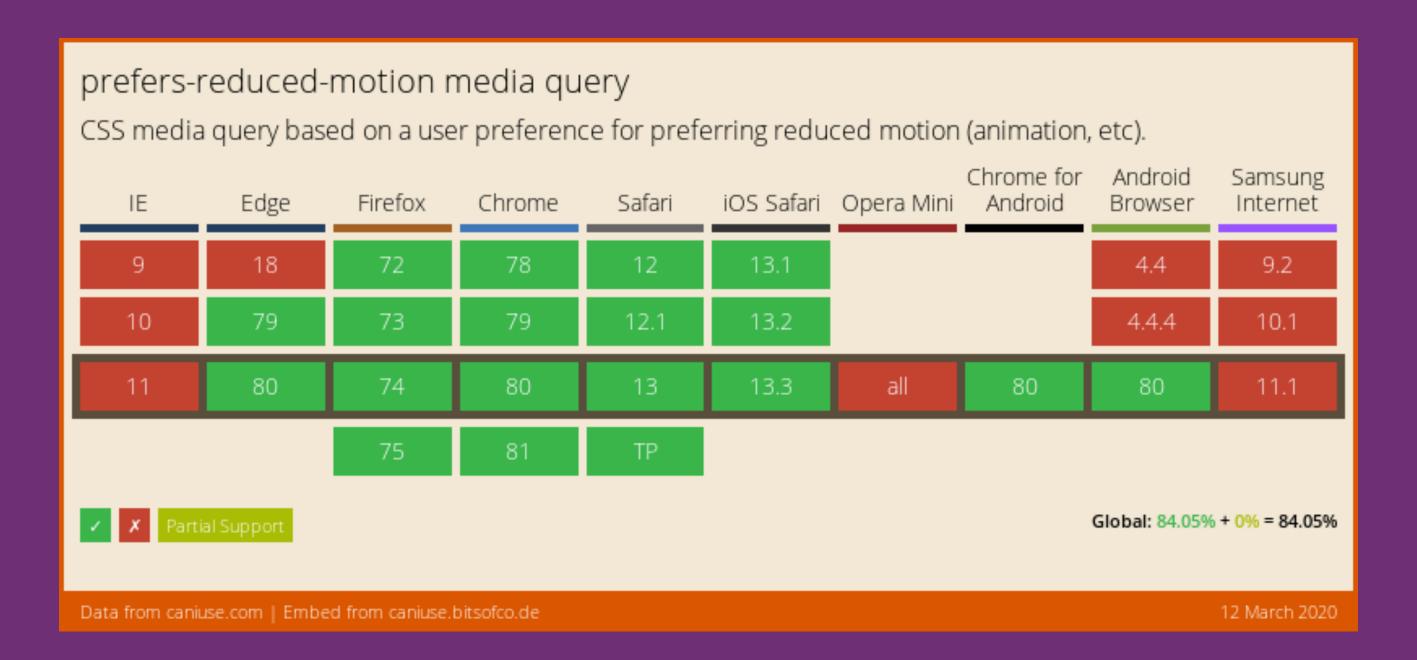
Respecting Reduced Motion



Or, better, progressively enhance:

```
@media (prefers-reduced-motion: no-preference) {
   /* All animation code */
}
```

Support



Source: Can I Use

On Windows ... it's complicated

Short note on prefers-reducedmotion and puzzled (Windows) users

Patrick H. Lauke @ TPG Blog

prefers-color-scheme Media Query

```
:root {
@media (prefers-color-scheme: dark) {
  :root {
html {
  color: var(--color);
  background-color: var(--bgcolor);
```

We⁴ also get a lot more tools to use!

⁴ Web Developers & Designers

Media Queries Level 5(?)

- inverted-colors
- prefers-reduced-transparency
- prefers-contrast (no-preference/high/low)
- forced-colors (none/active)

How to tackle Inclusive Design?

80% of Success is Showing Up

— Woody Allen

This also applies to inclusive design thinking.

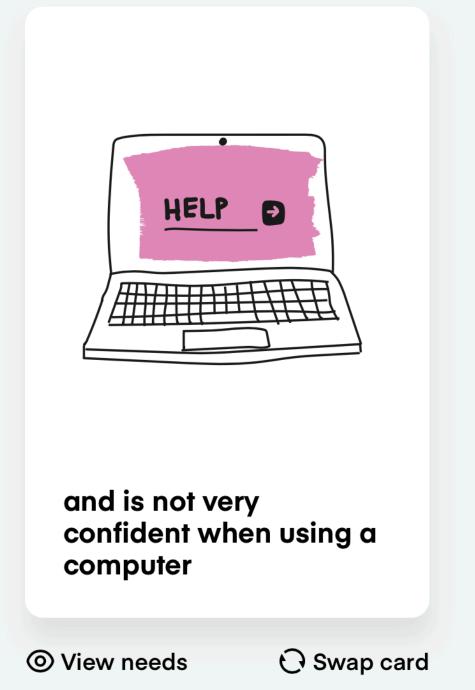
- Keep an eye out for people who might be negatively affected by a design decision.
- Integrate minoritized groups into your
 - stories
 - personas
 - QA process
 - design/develop/project teams

Cards for Humanity

How can you meet their needs?

Mike Blandford, 75 is very independent





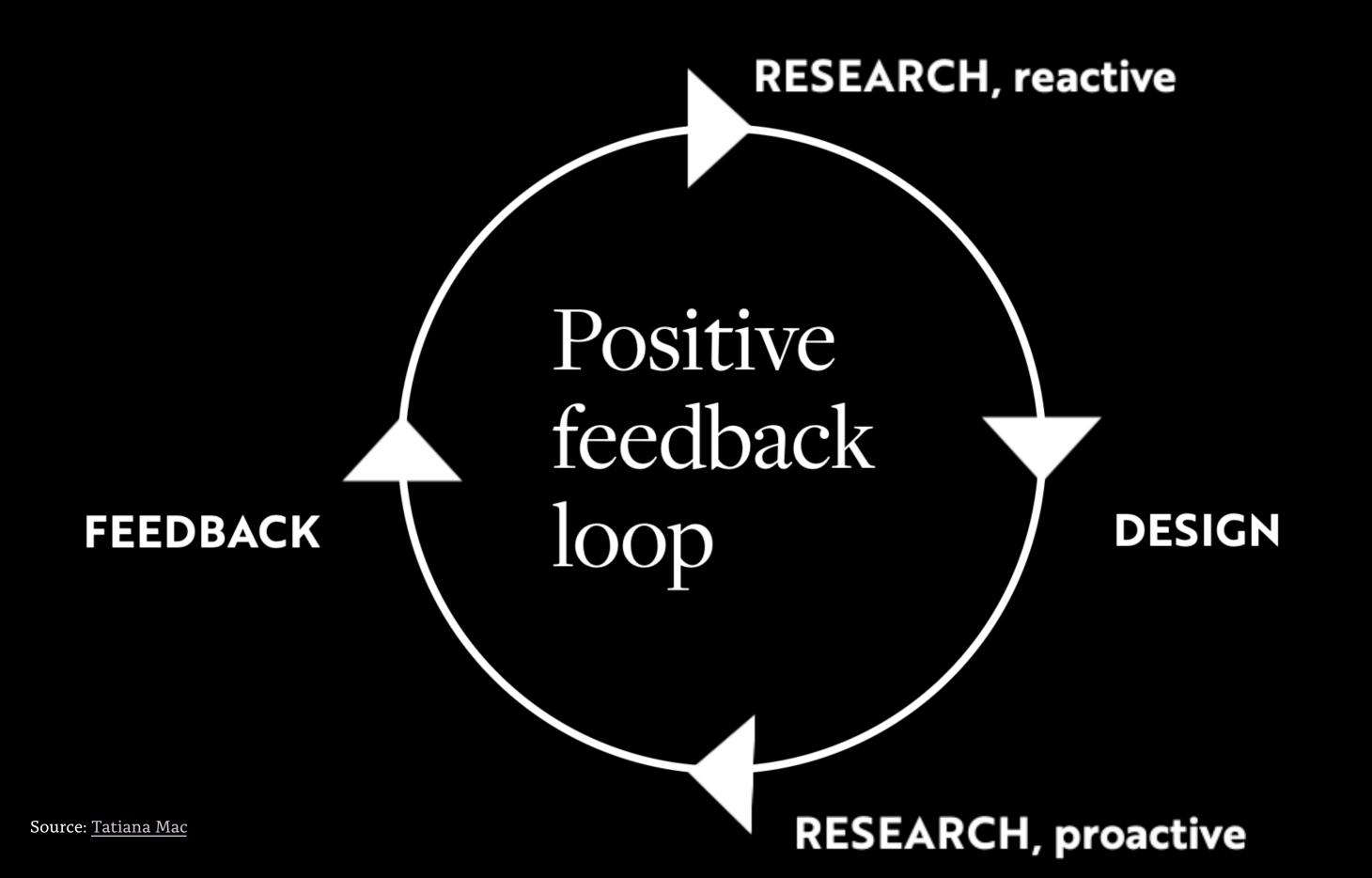


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Nothing about us, without us.

Disability Rights Motto

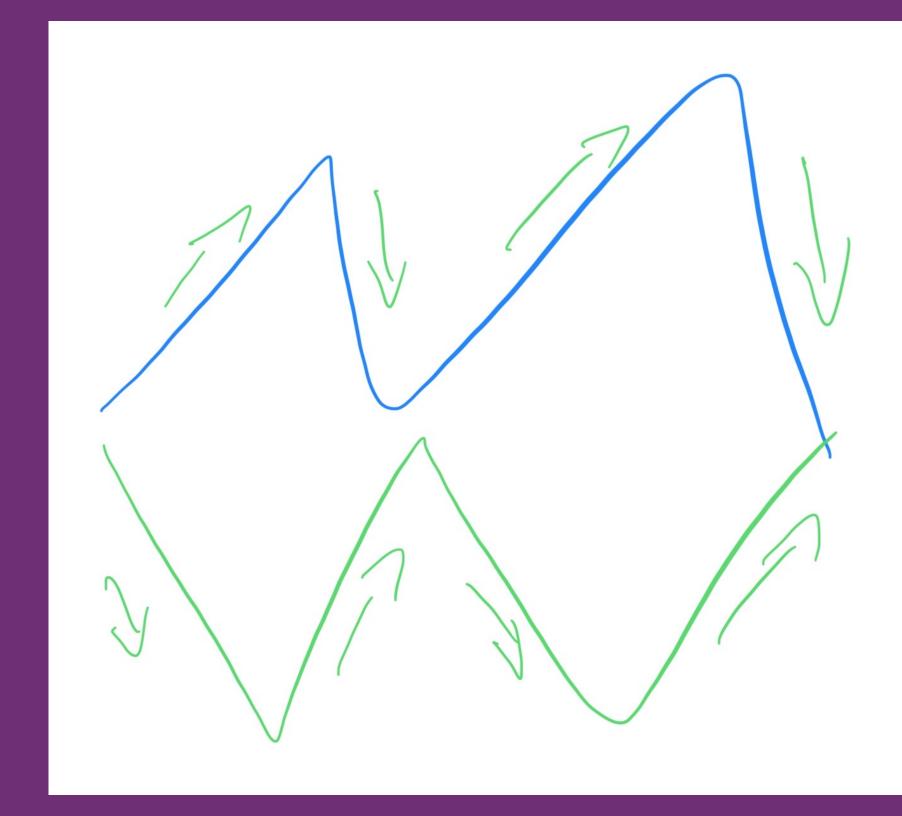
As long as workplaces are not inclusive, their products won't be truly inclusive.



Question design decision as a habit

You cannot solve Inclusive Design in code alone.

Brainstorm the feature.
Brainstorm the implementation.



Conclusion

- · Do not make assumptions about users and the tools they use
- Prepare your content and design for different circumstances
- Embrace the uncertainty

Thank You!

Eric Eggert

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E-Mail: mail@yatil.net

Social: @yatil

Never be cruel, never be cowardly. And never ever eat pears! Remember – hate is always foolish... and love, is always wise. Always try, to be nice and never fail to be kind. [...] Laugh hard. Run fast. Be kind.

— 12th Doctor