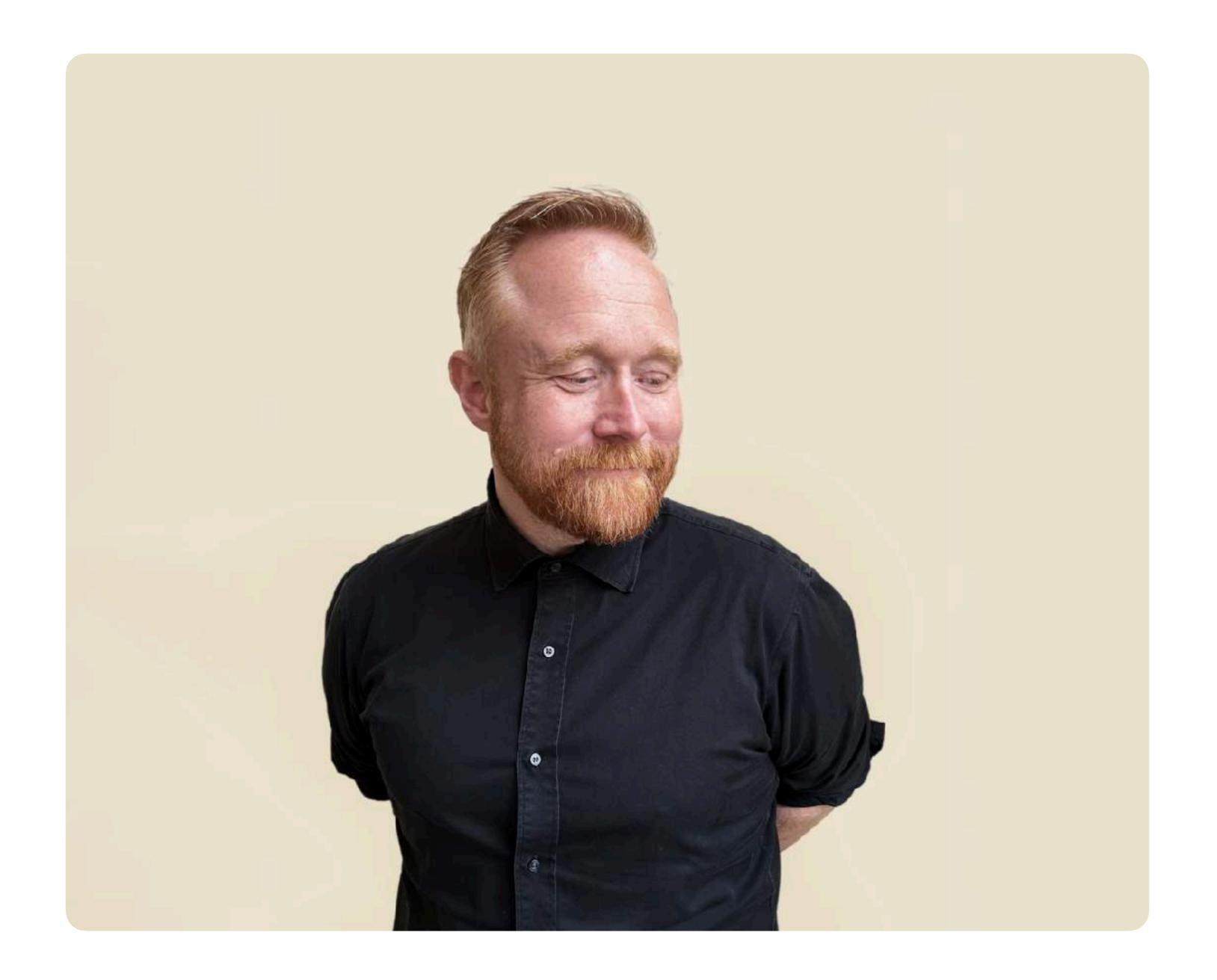
## Uniocking Accessibility

Inclusive and accessible design is not only a necessity for some...

#### Rasmus Sanko

Chief Strategy Officer





We assist businesses and organisations that are passionate about their field of expertise and aspire to excel digitally.

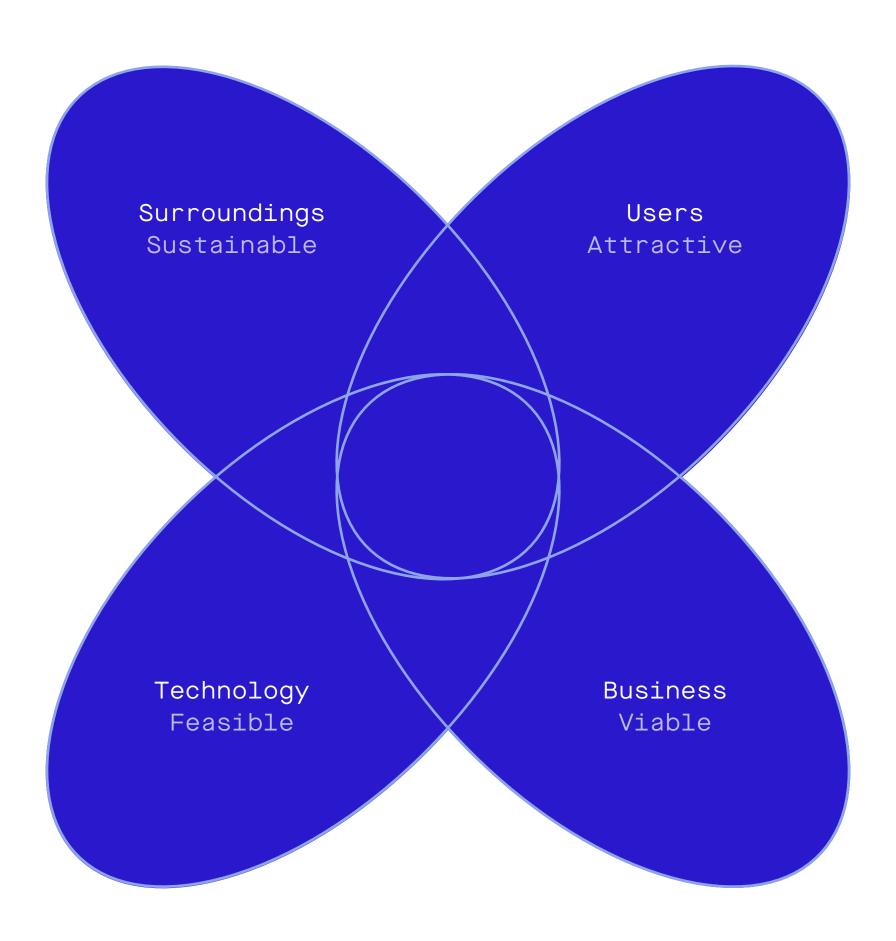
We accomplish this by designing and implementing user centric, data driven products and services of the highest quality.

Together we create modern, digital businesses and organisations that provide meaning and value for society as well as individuals.

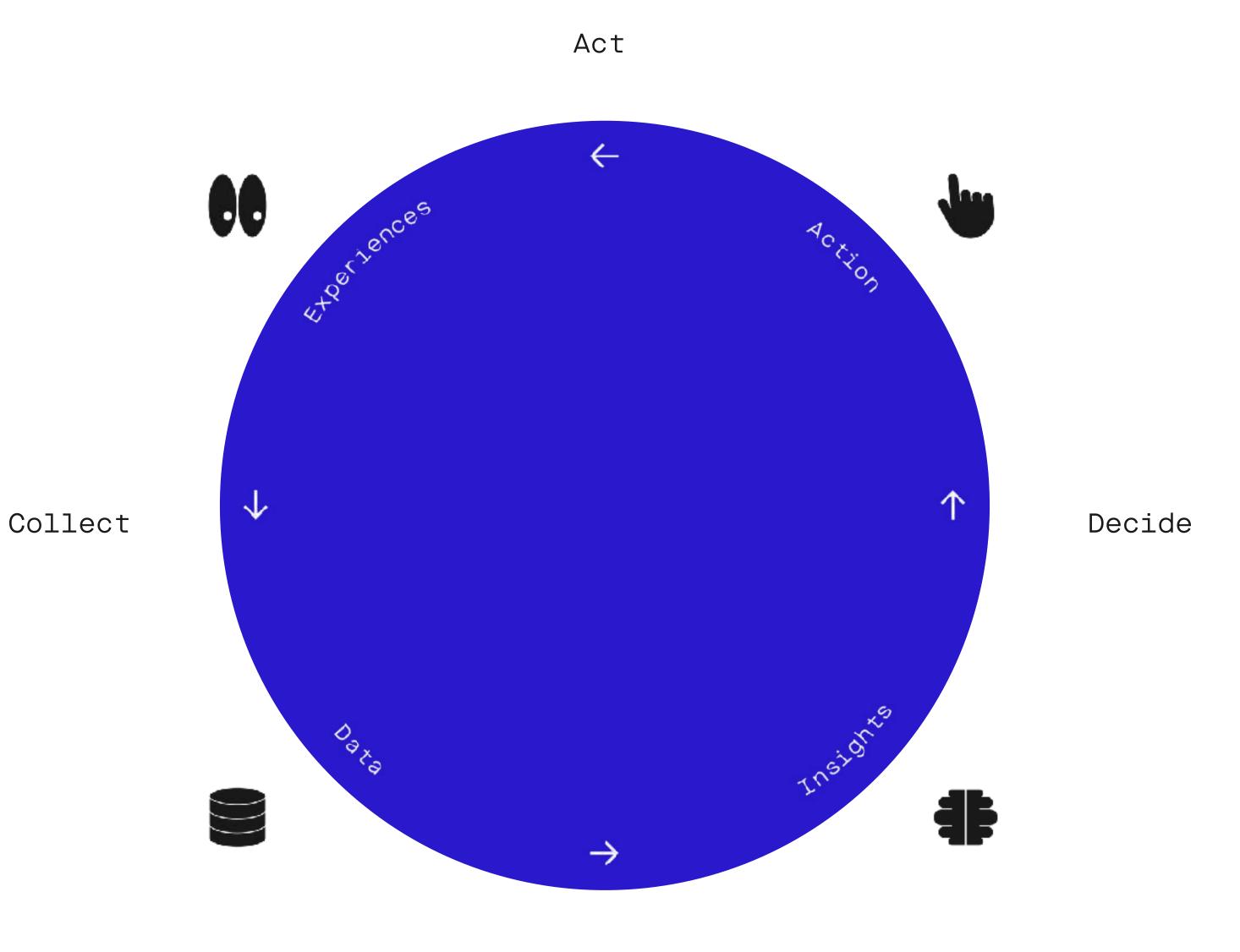
#### CHARLIE TANGO



#### Design thinking



### Data driven mindset



Learn

#### Citizen Proposals



#### Voter Declarations



**CHARLIE TANGO** 

#### Coloplast





reddot design award



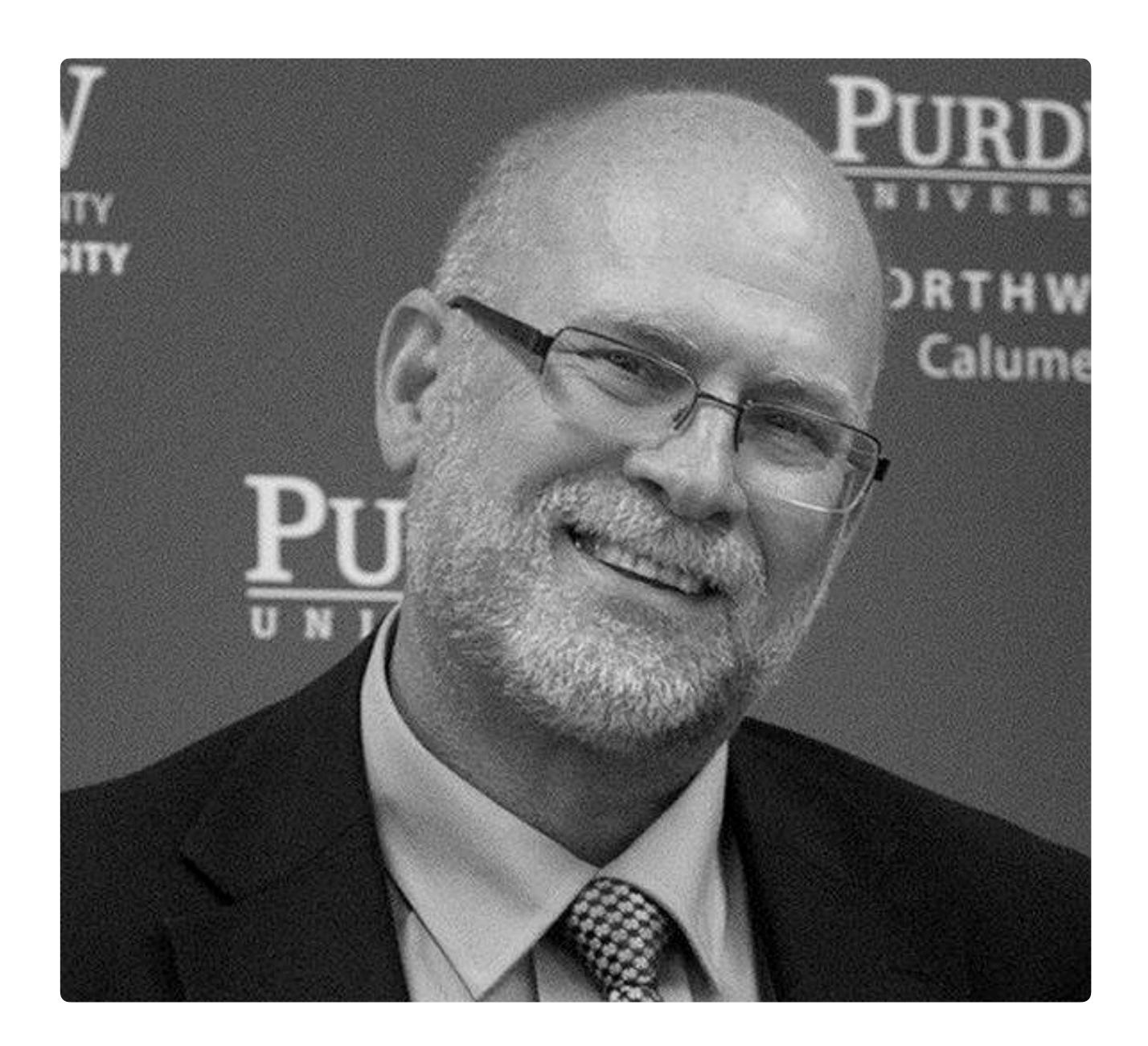


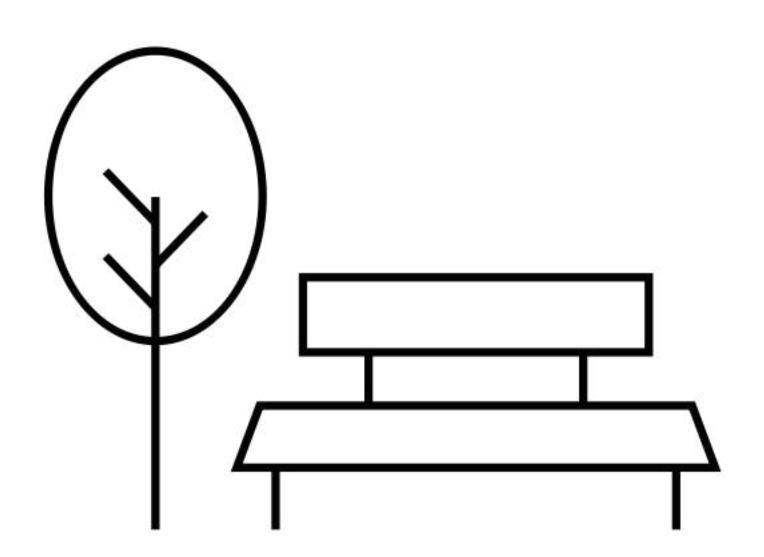


# Kipling Williams

Professor of Psychology, Purdue University

Director of Diversity, Equity, and Inclusion at the Department of Psychological Sciences at Purdue University









### Cyberball









Participant William's cyber ball study

# You know that people will let you down, but computers aren't supposed to.

## There are many reasons to be



excluded



## There are many reasons to be

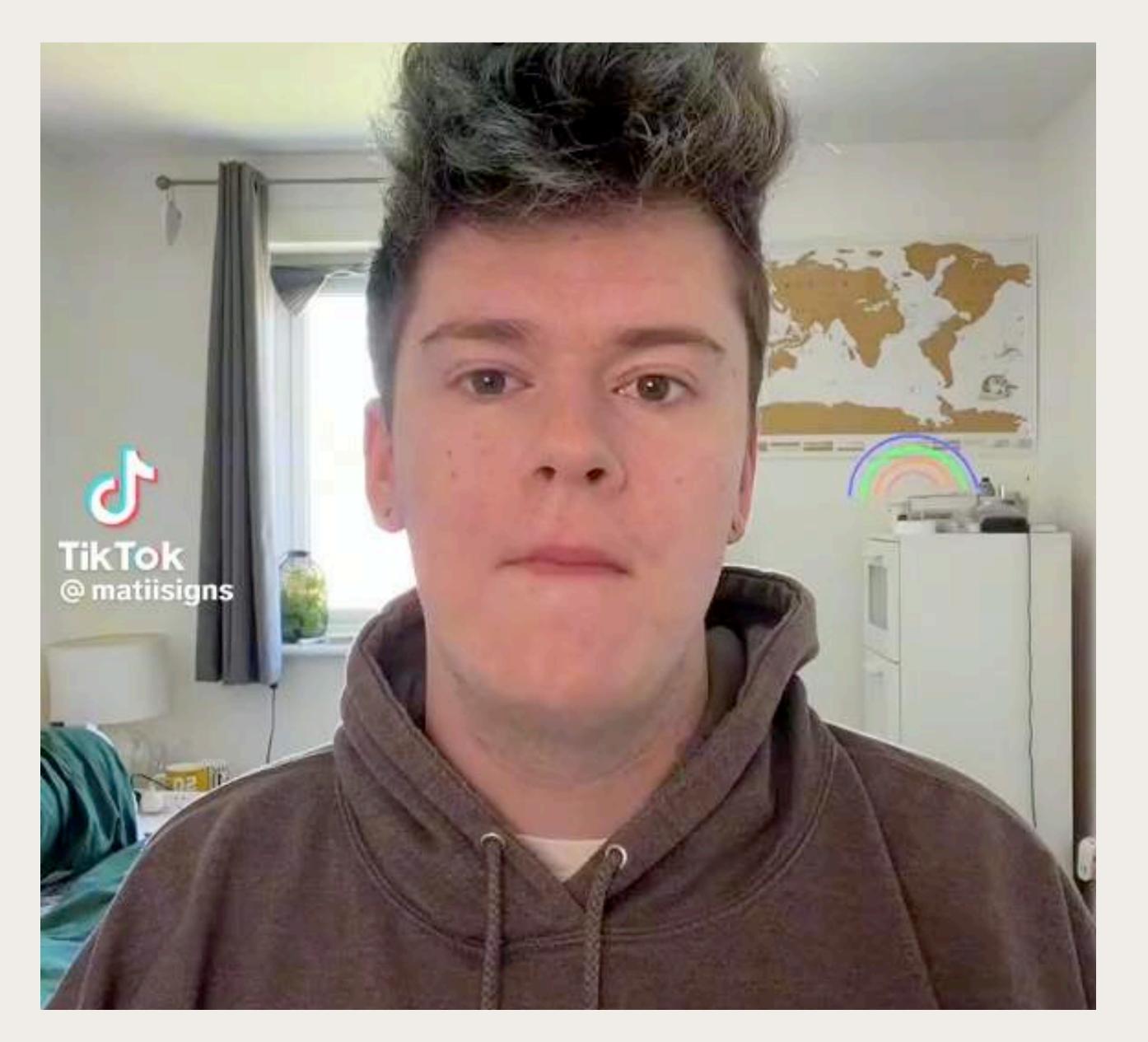
#### excluded





### Deaf or hearing impaired

Auditory disabilities range from mild or moderate hearing loss in one or both ears to substantial and uncorrectable hearing loss in both ears.



Source: @matiisigns (TikTok)

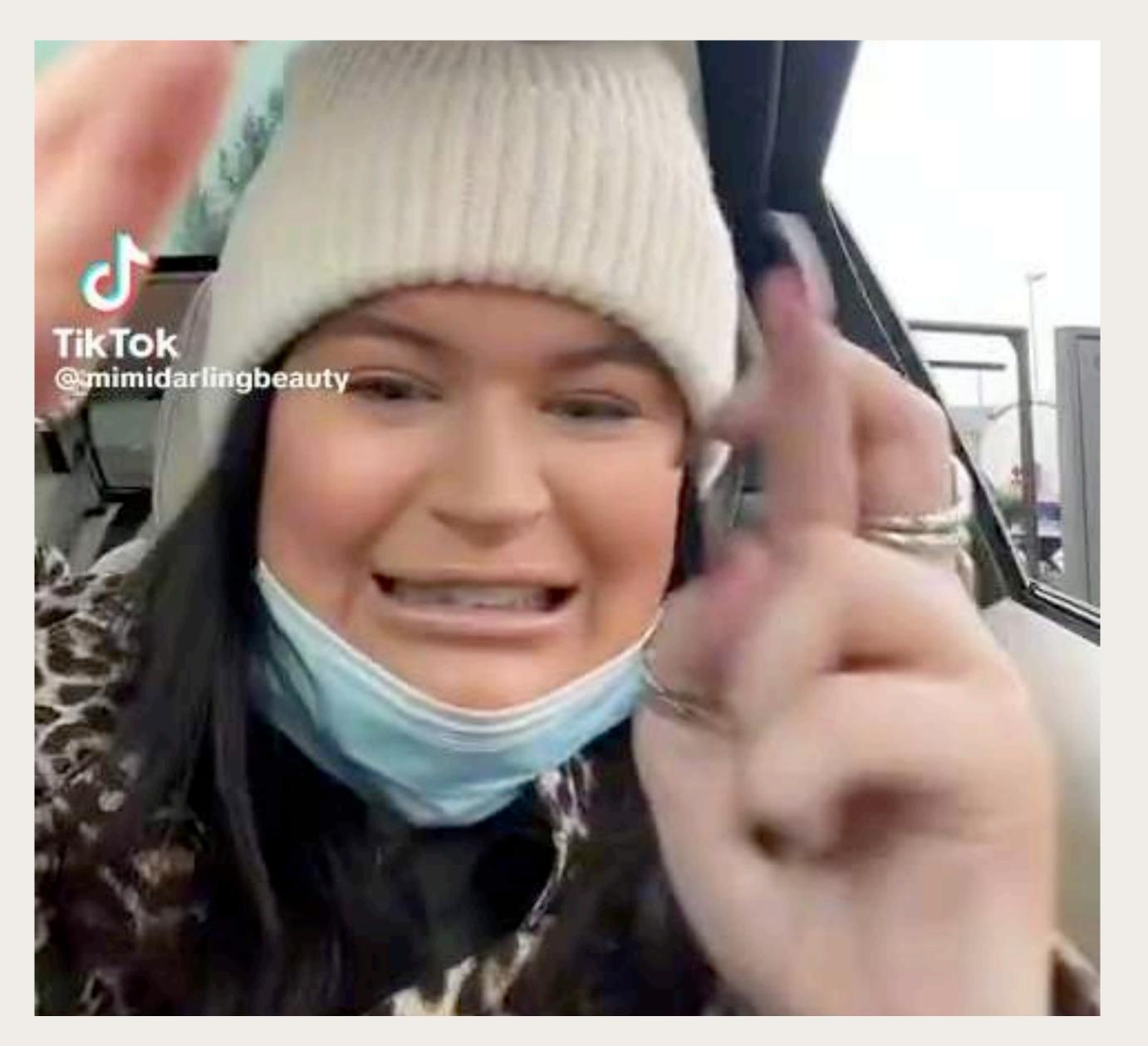
### Blind or vision impaired

Visual disabilities range from mild or moderate vision loss in one or both eyes to substantial and uncorrectable vision loss in both eyes.



### Speech impairment

Speech disabilities include difficulty producing speech that is recognisable by others or by voice recognition software.



### Physical or motor disabilities

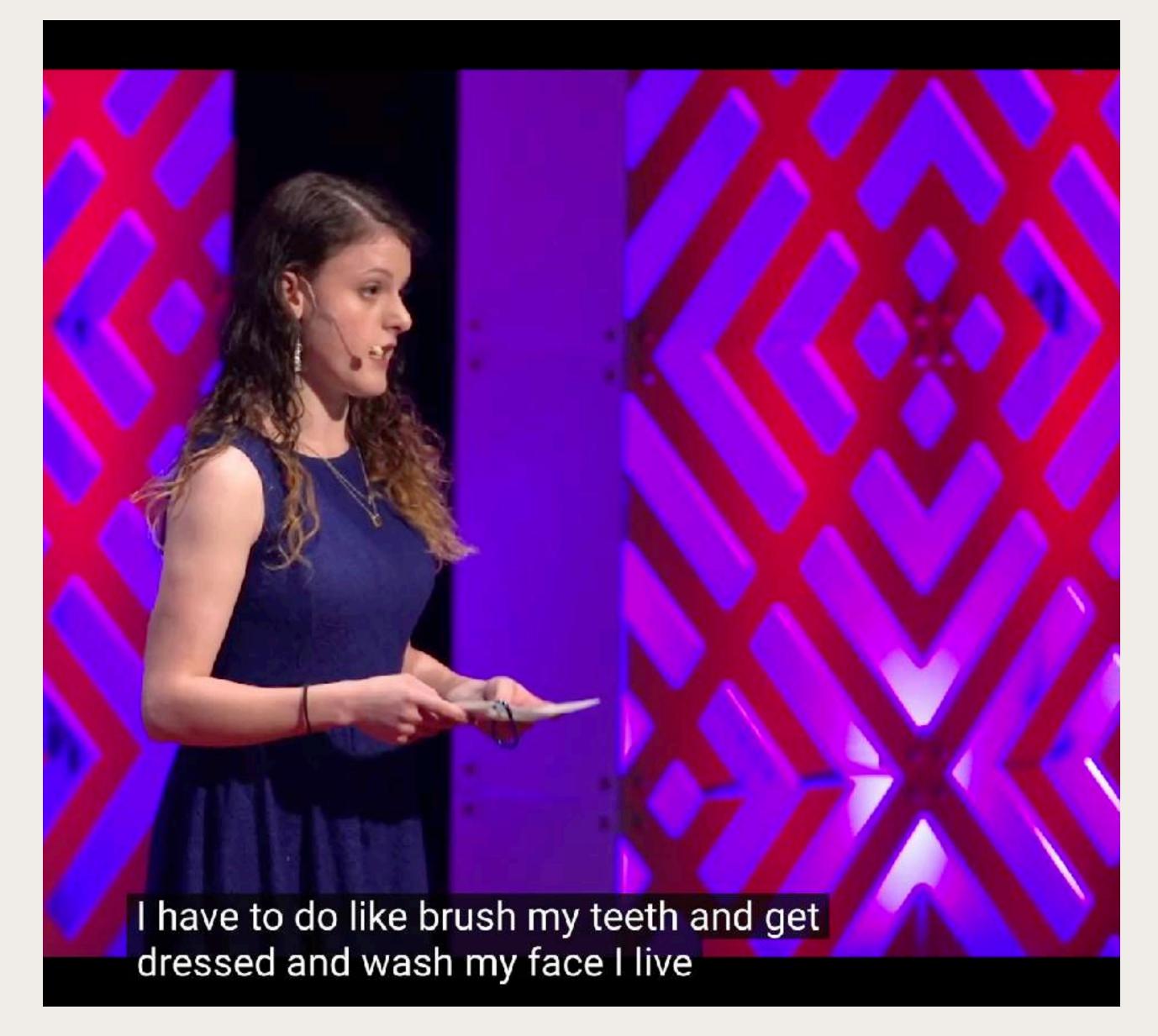
Physical disabilities or "motor disabilities" include weakness and limitations of muscular control, limitations of sensation, joint disorders, pain that impedes movement, and missing limbs.



Source: @steadiwear (TikTok)

### Cognitive impairment

Cognitive impairment refers to a broad range of disabilities, from people with intellectual disabilities who may have the most-limited capabilities, to age-related issues with thinking and remembering.



## 1980

### Disability as a personal health condition

(...) a disability is any restriction or lack of the ability to perform an activity in the manner or within the range considered normal for a human being.

World Health Organisation

## 1980

### Disability as a personal health condition

(...) a disability is any restriction or lack of the ability to perform an activity in the manner or within the range considered normal for a human being.

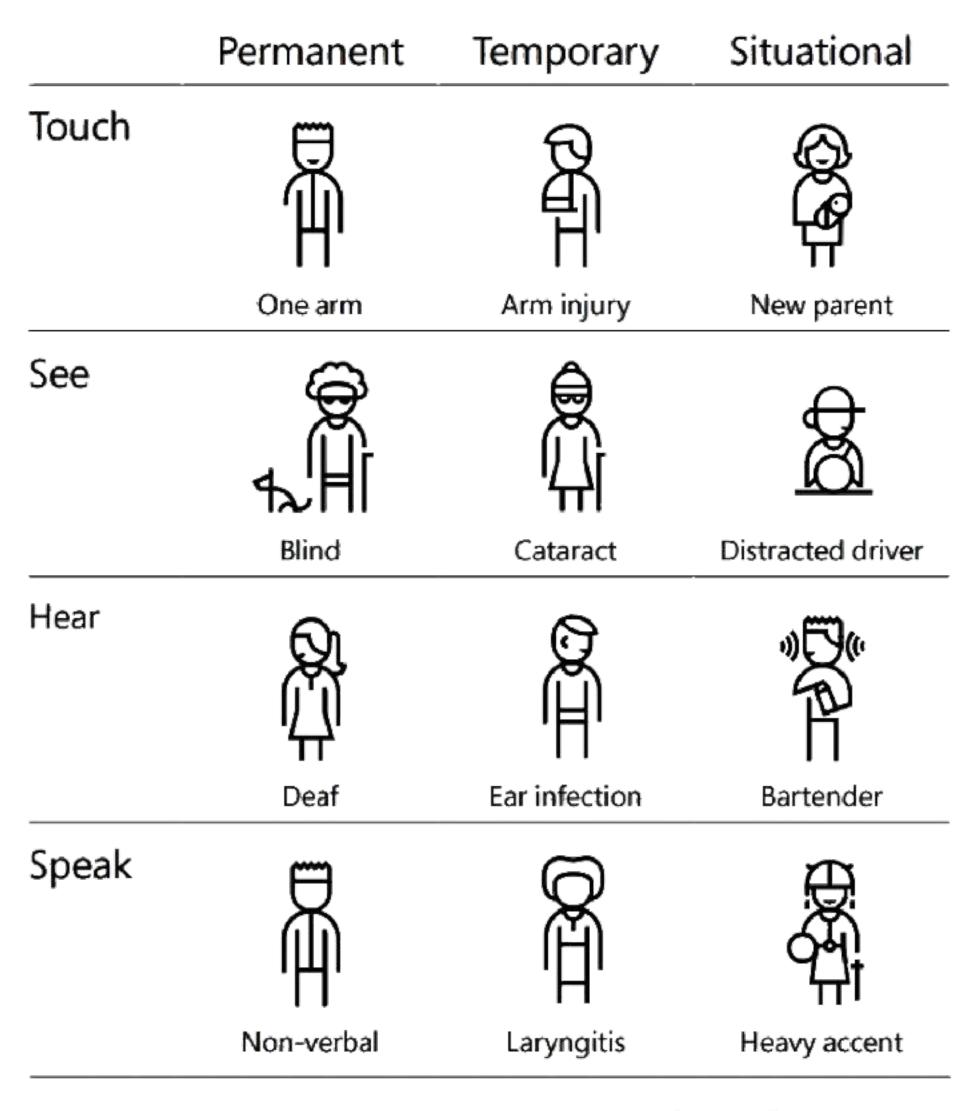
World Health Organisation

#### Disability as mismatched interactions

Disability results from the interaction between individuals with a health condition (...) with personal and environmental factors (...)

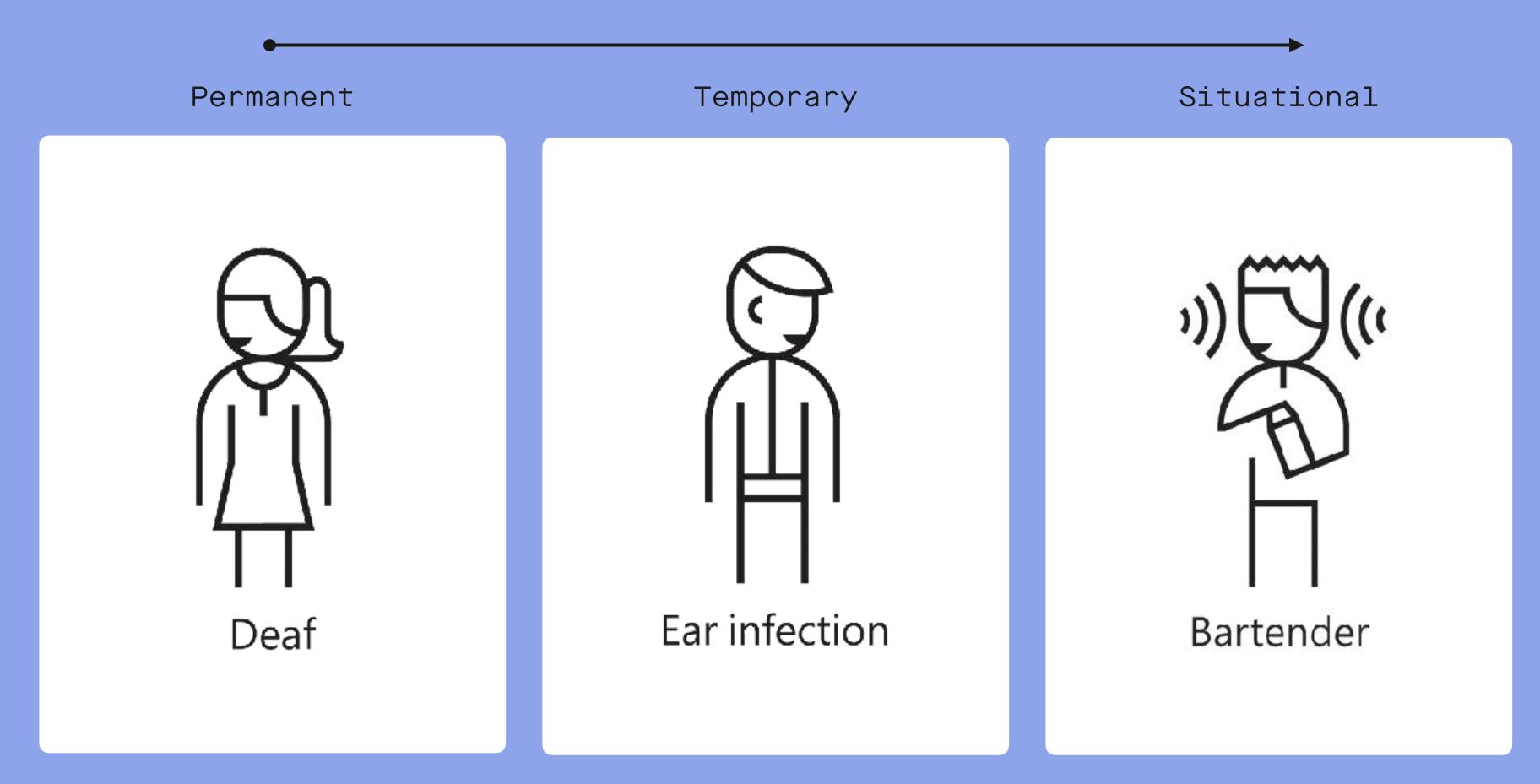
World Health Organisation

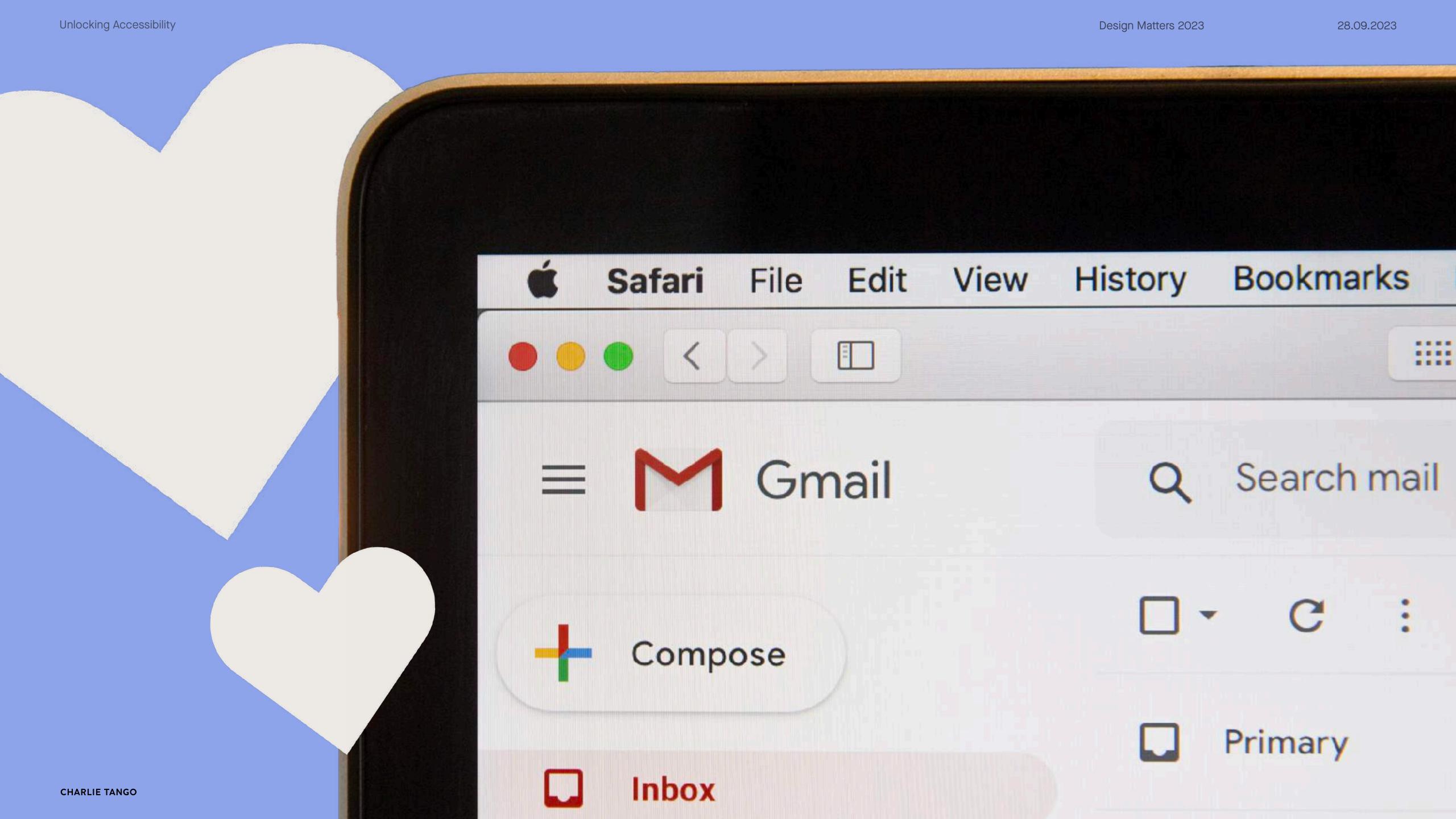
# The persona spectrum

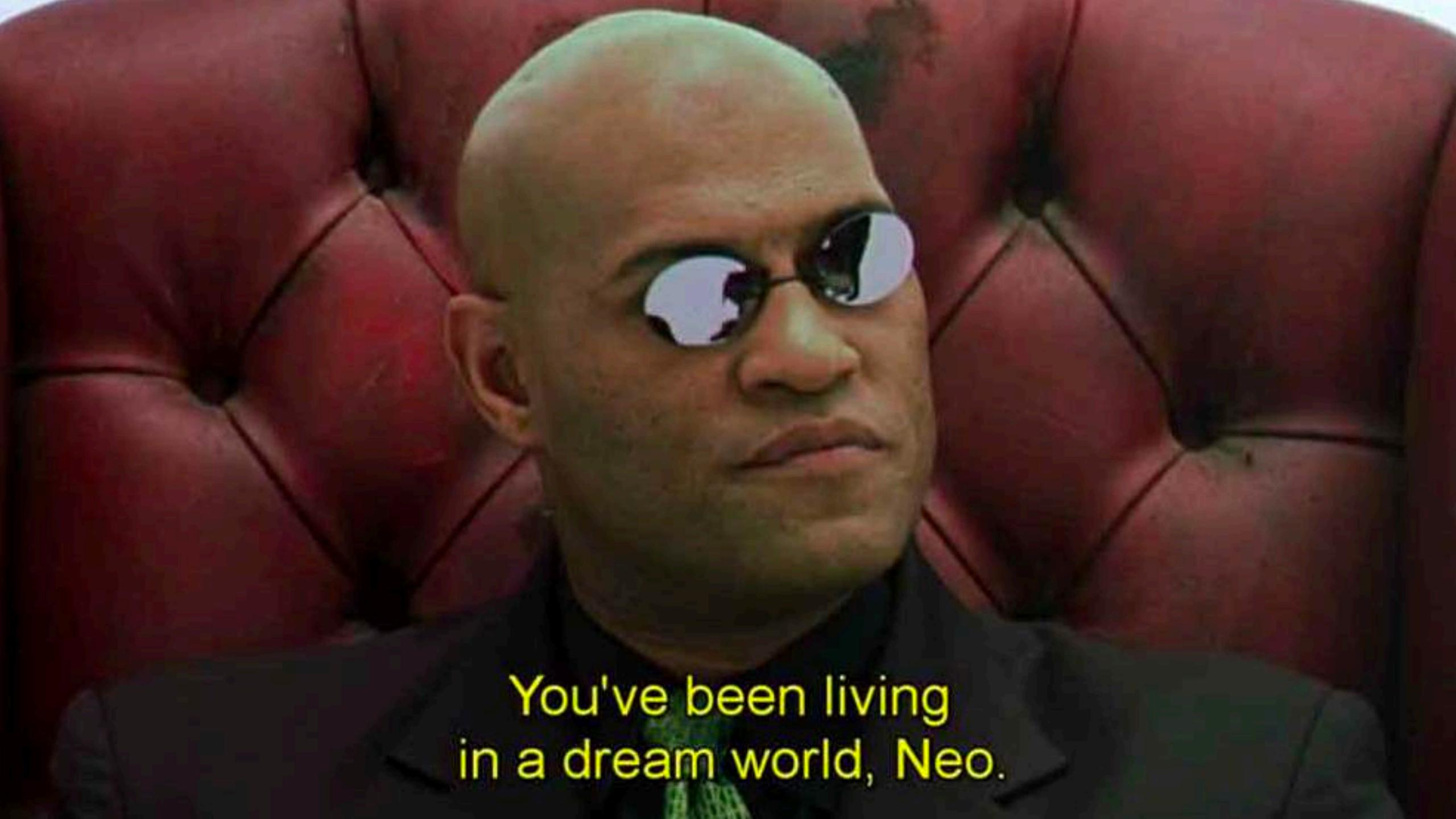








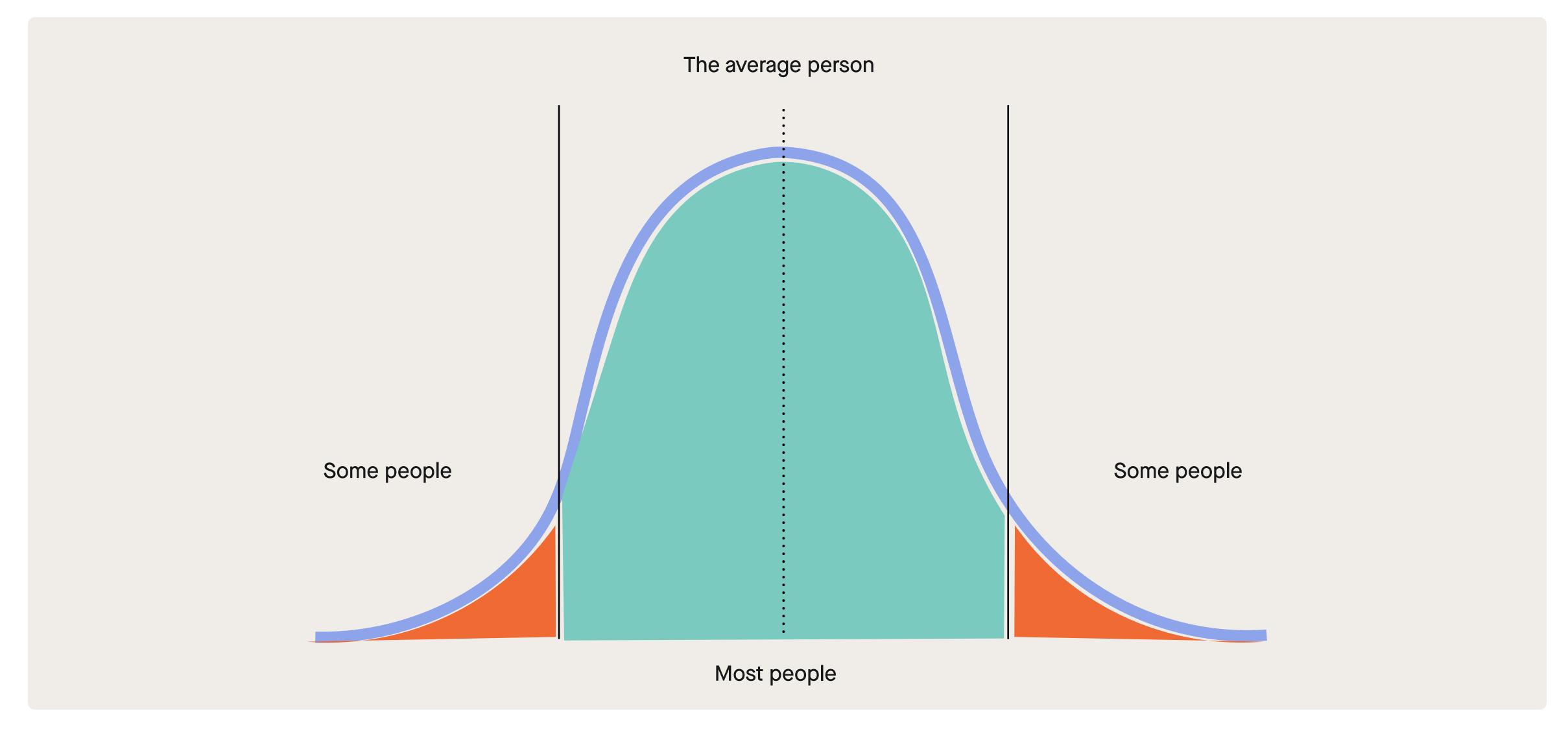




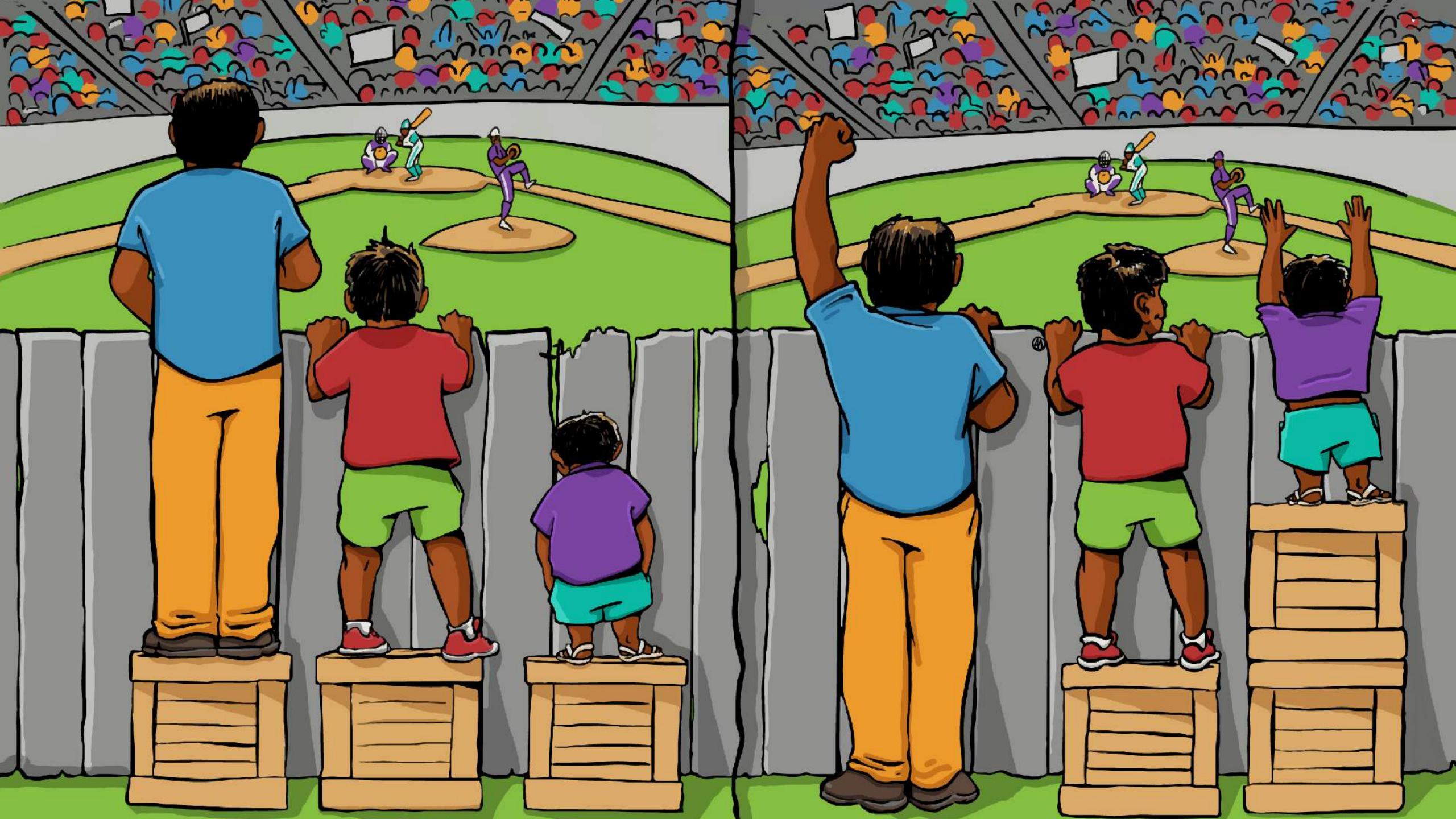
# Focusing on the *typical* user



#### The bell curve



80/20



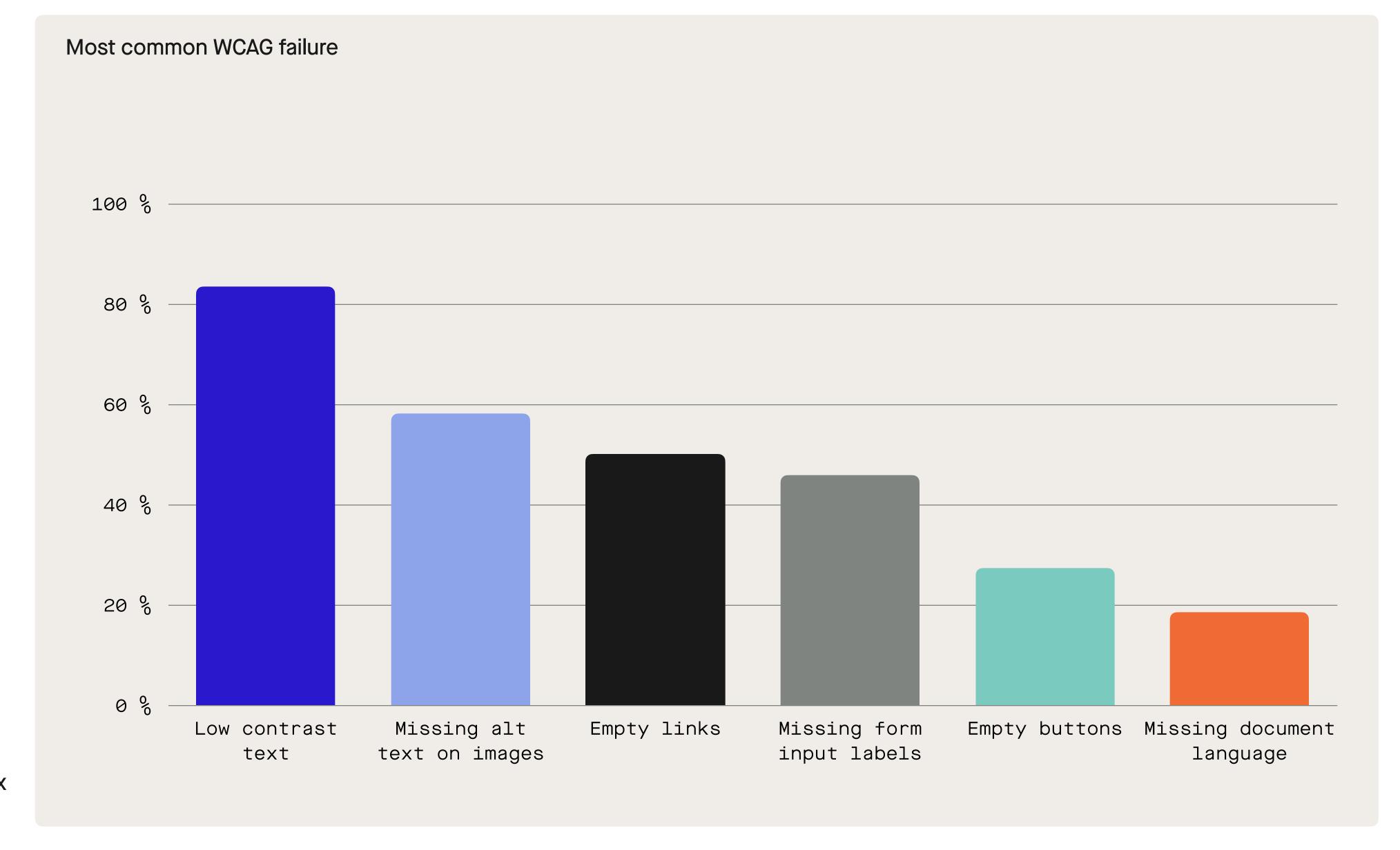
#### The WebAIM Million

96.3%

Home pages with detected WCAG 2 failures

Only 37.000 out of the top 1 million websites, passes the basic automatic test

Automatic test performed by WebAIM with the WAVE tool, scanning the **top 1 million home pages**, looking for WCAG failures.

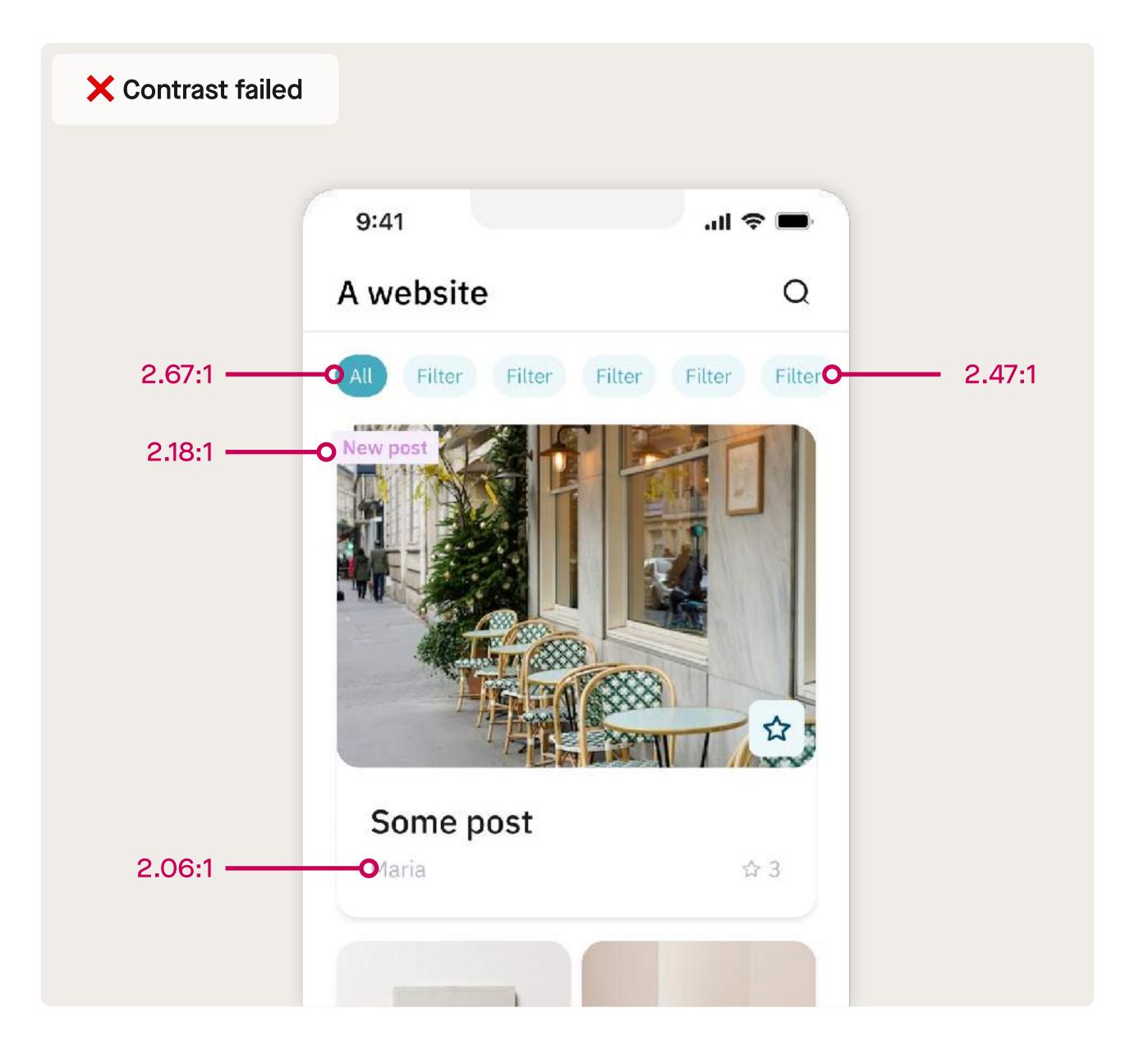


96.1% of all detected errors, fall into these six categories.

Source: https://webaim.org/projects/million/

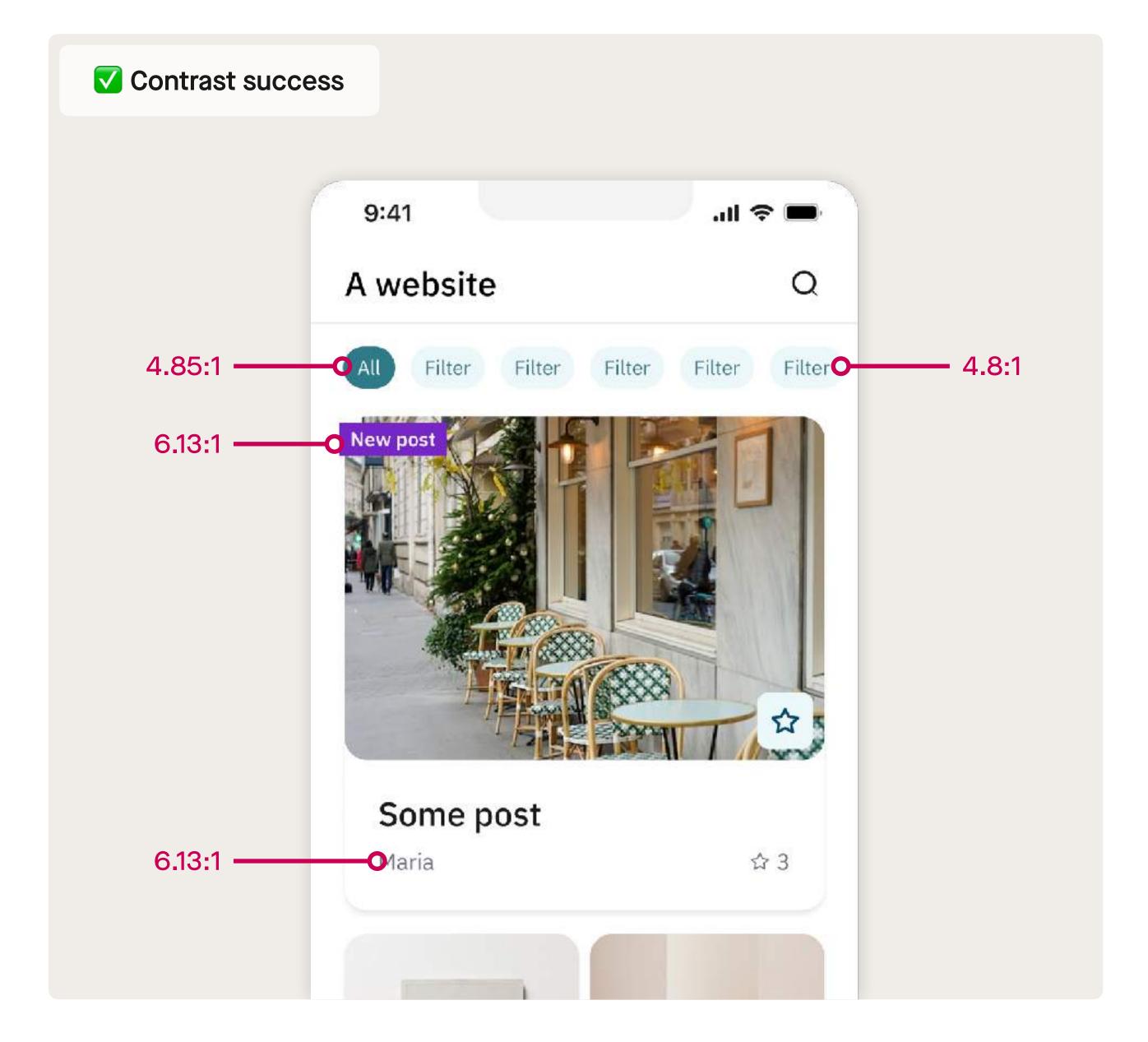
# Check your colour contrast and text sizes

According to the **W3C**, the contrast ratio between text and its background should be at least 4.5 to 1.



# Check your colour contrast and text sizes

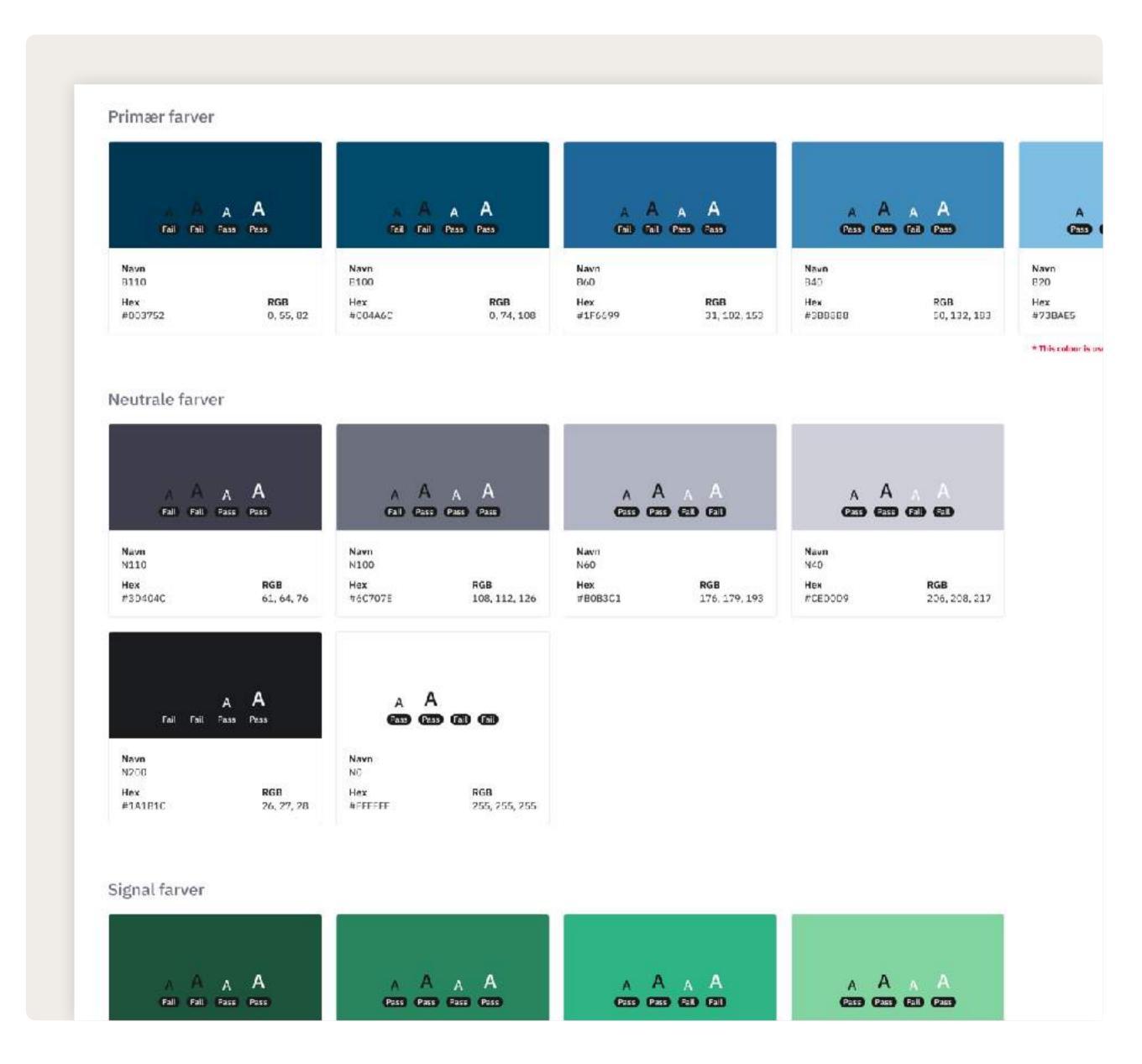
In order to reach the required contrasts, you will likely have to reassess your color schemes a few times throughout. Sometimes it might mean completely changing your original choices.



# Create an accessible colour palette

Collaborate with your brand team to create a palette that meets AA standards.

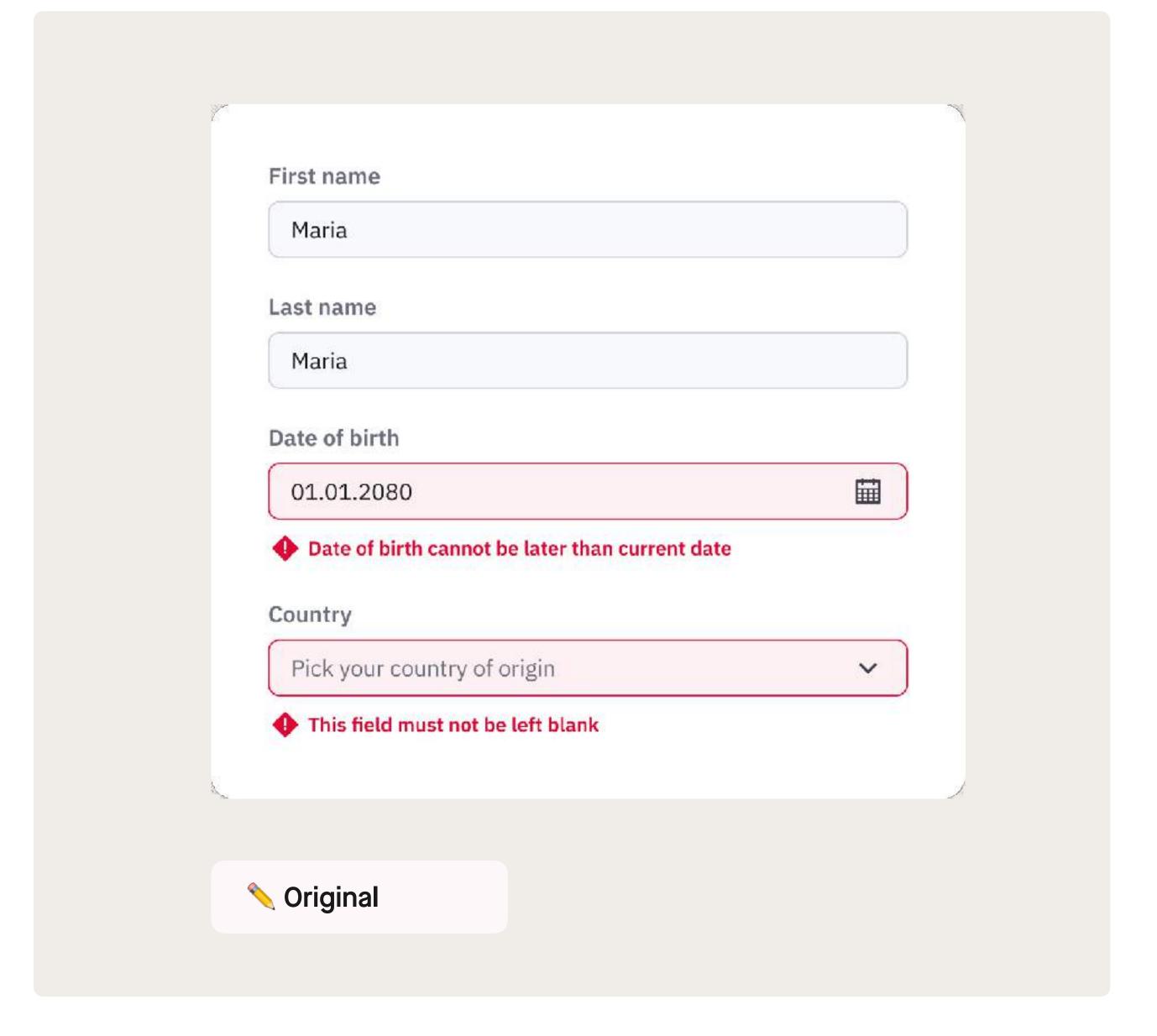
This can be tricky, if there is a set of colours provided through a company's branding.



# Never rely on color alone to relay meaning

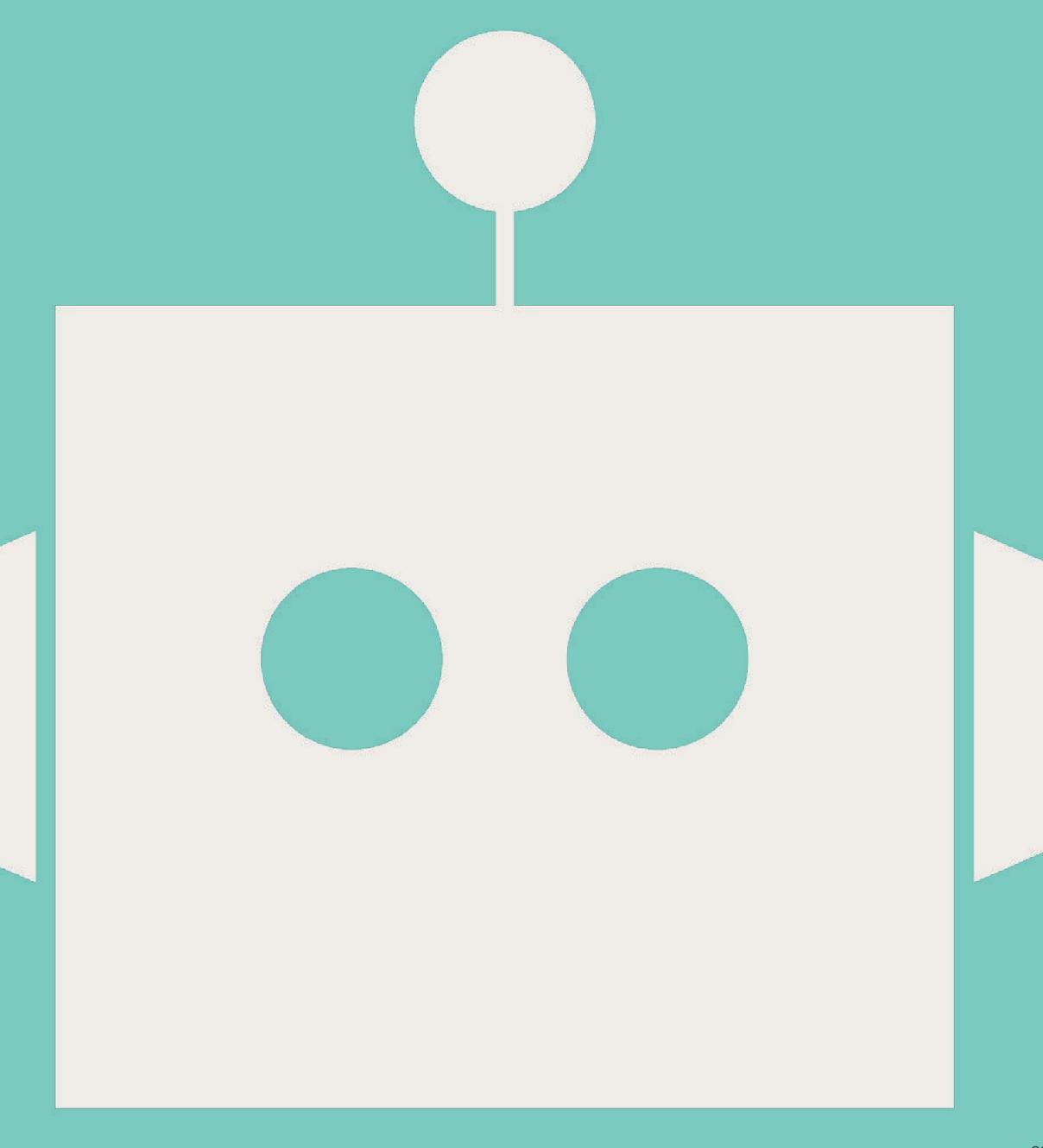
When showing errors on the screen, include an icon and supportive message.

People with low visual acuity or color blindness will have a hard time understanding your content.



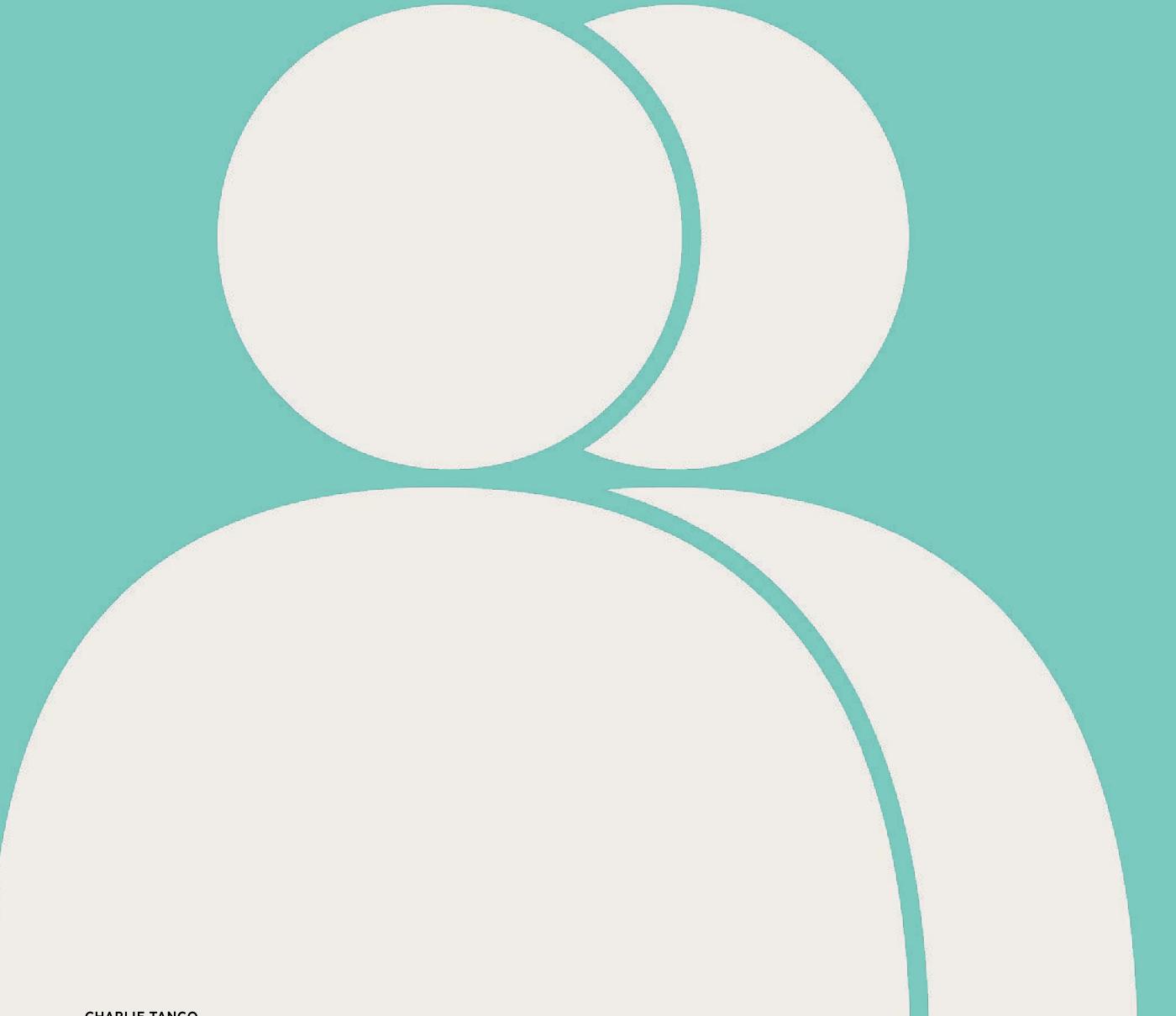
Accessibility Testing

## Automated testing





# For WCAG 2.1 AA tests, automated scans can only check for 20-25% of WCAG success criteria



Accessibility Testing

## Manual testing

## Mouse Driven Testing



## Mouse Driven Testing

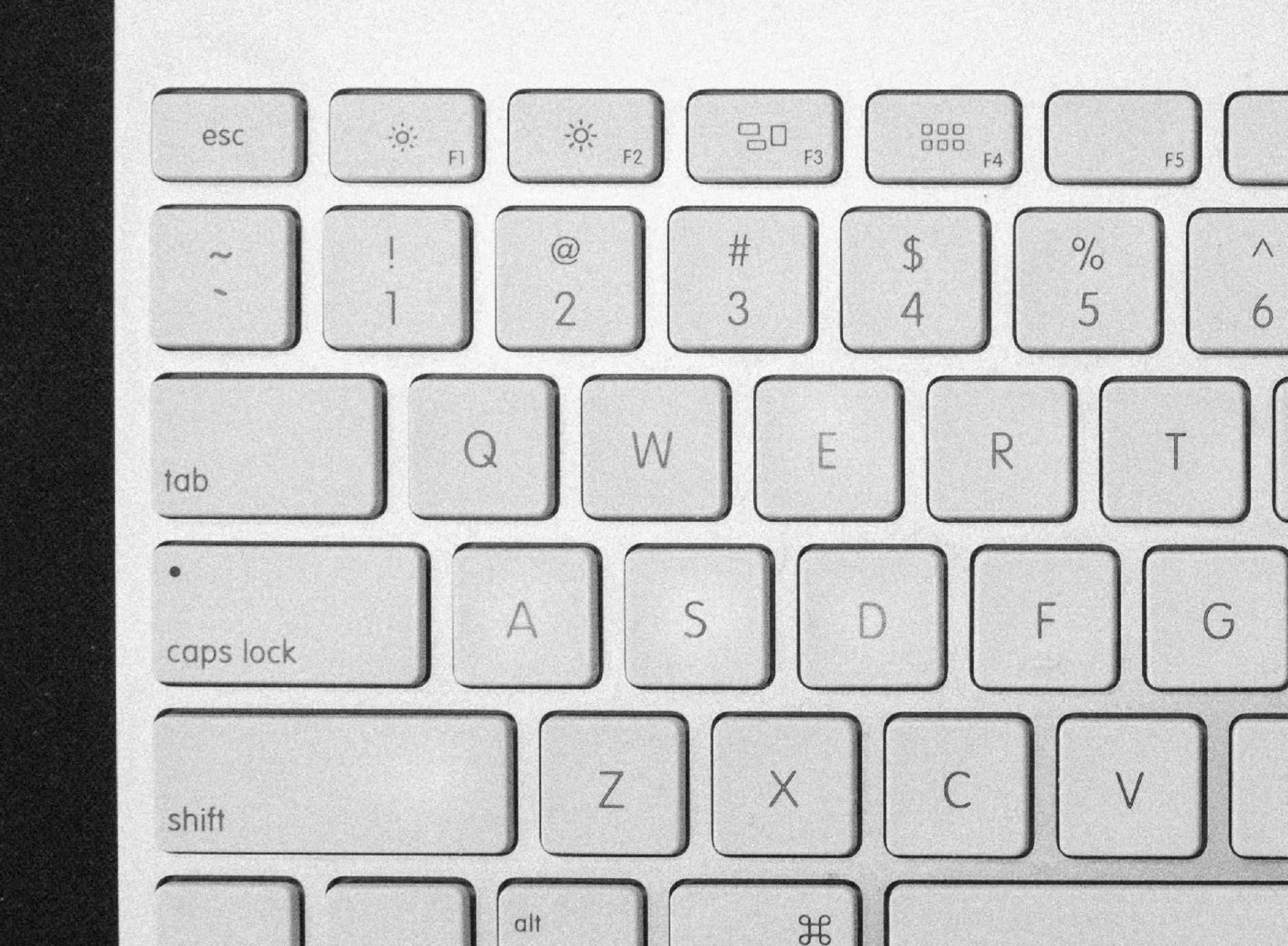
- We all default to using the mouse, when testing a website
- We are working on the computer
- We are used to navigating with a mouse
- It's easy



#NoMouseChallenge

## No Mouse Testing





Cases Services Nyheder Om os

Vi hjælper virksomheder & organisationer, som brænder for det, de laver, og har en ambition om at udmærke sig digitalt.

Kontakt

+45 70 22 15 16

We are going to "Tab" through the site. Notice how focus is always clearly visible

Kontakt

# Without using a mouse, you should be able to...

- At all time know where the keyboard focus is
- See and read all content on a page
- Navigate to other pages
- Fill and submit forms

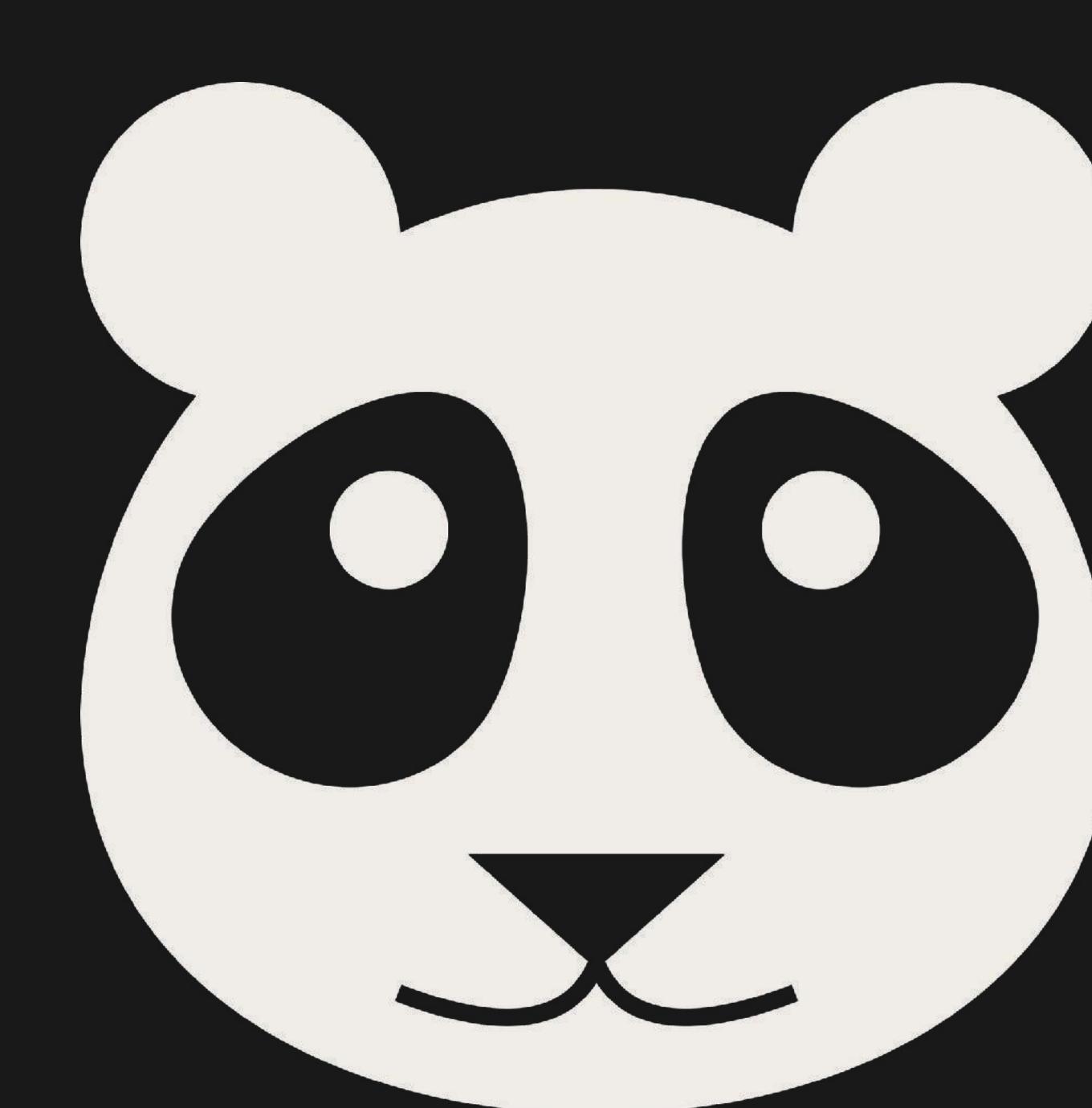


If you can't use your site without a mouse, a screen reader user will have no chance.



# But, I don't feel like I can really be creative anymore

Some designer



## Make accessibility a priority and the default

Once accessibility becomes a standard part of your way of working, designing accessibly won't feel hard.

The digital space is constantly changing, and we often have to adapt our way of working.

"How might we create a fun, beautiful and creative product, but also make it accessible?"

Limitations, restrictions, negative pov

## Make accessibility a priority and the default

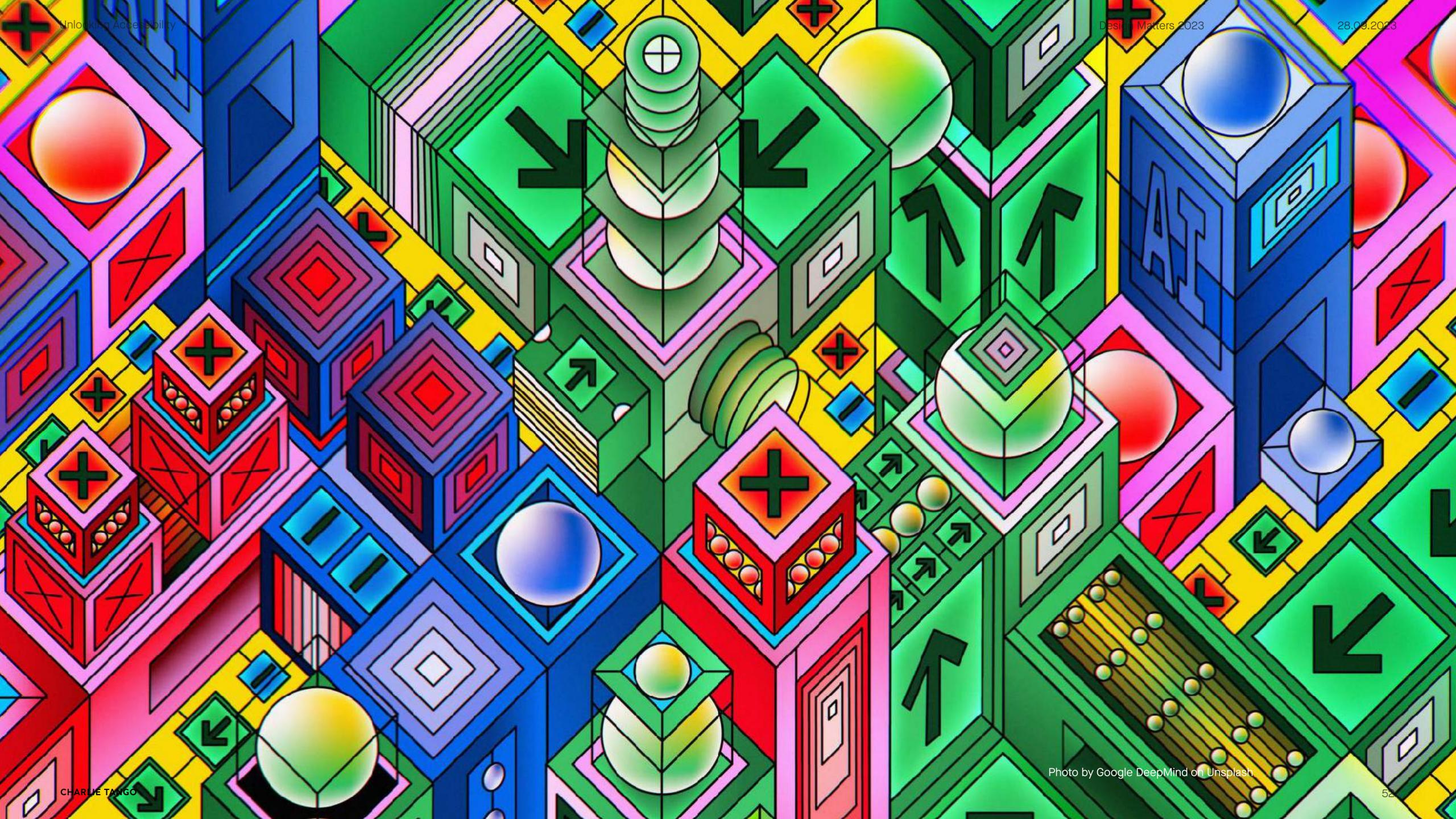
"How might we create a fun, accessible, beautiful and creative product?"

Once accessibility becomes a standard part of your way of working, designing accessibly won't feel hard.

Faual priority equal emphasis

The digital space is constantly changing, and we often have to adapt our way of working.

Equal priority, equal emphasis, positive pov



d gender identity ethnicity

Age Gender and gender identity Race and ethnicity Sexuality Physical attributes Cognitive attributes Language Culture Religion Education Political or philosophical opinions Social and economic context

19

#### This was programmed by someone.

Raeschell Niakya Wakiesha Sumata Latrella Sahirah Keytra Resheda Tashenia Flisha Quitalla Kolethia Kesia Dabratzi Snicka Chalay Rovetta Meosha Tamikka Nakia Mirmala Tanika Jemelah Laneeda Lkiesha Sonyette Contrennia Jacinda Khadija Ginnette Tynette Veneitte Talana Keshia Lennette Salathia Peninnah Chanteria Roneshia Coletta Mishayla Tawana Shamecca Lakesha Inetha Tenera Desibrace Coletha Keesha Drwilda Shiqundia Queenlana Delinda Ayanna Malique Argirtha Fekisha Sharnell Jamaka Tetelalisa Khepri Claretta Hairothea Caprolanda Niakya Demetra Sumatra Neeama Cleastine Tashondria Lashon Natacha Shadelle Theresia Valkisha Bethena Kianna Nichelle Shemika Everloyce Sharkesha Jenise Ziondrea Latanza Noella Syretta Ghalyah Shalako Jilisa Tafreesa Sheritta Keyah Latifah Charisa Renneda Quonish Kiyanka Tanisha Shonta Shennelle Mandisa Tonisha Kenisha Makayla Narie Jerrica Shontel Felisha Tizza Moniqua Lashae Tinisha Tawonda Shanita Shonek Hazline Jazmin Shkise Tiara Shranda Sakura Ronisha Anaijah Raeschell Sha'Shauna Gerschell Zoriyah Evaretta Malyaia Qadeera Camesha Tynisha Briahna NaTasha Schanta Curtisa La'tonia Kalia Oryntha Mikayla Ebonee Chantel Quentera Keziah Shekila Cludetta Aaleah Ebony Danette Shanice Takira Sharee DeNisha Nalsya Tekena Thomeka Malvina Laquinda Sharleene Nekasa Kwadi Ja'Tovia Rashida Anunnaki Nashira Faizah Shayna Lethia Phelisa Dronellar Meechala Hynifah Nikia Shiann Akllah Shamiyah Shatora Larrika Lavetta Meosha Jaterra Zeldra Natanya Daleshawna Shawanna Lateatha E'monie Destine Kamildh Denisha Carlette Glenshler Deecoily Shantil Tamala Tamielya Nakeisha Tamisha Khlana Schnika Charnell Tiyon Shantelle Jzonque Ca'tina Joscalyn Shawnya Shalonda Ral'Nece Chalandra Taloria Tiffanique Tanachi Jakyra Zanaysha Chieboni Aivaye Jakerria Janieka Raenette Michel'le VeEtta Chanell Jawon Ronette Kawanda Seechanna Denishia Senalka La-a . . . Harlow Bristol

A collage of dozens of Black names marked as misspelled by Microsoft Word's built-in spell checker. 2016, Pluralism, Deborah Roberts. Serigraph on Paper.

- X The photo you want to upload does not meet our criteria because:
  - Subject eyes are closed

Please refer to the technical requirements.

You have 9 attempts left.

Check the photo requirements.

Read more about common photo problems and how to resolve them.

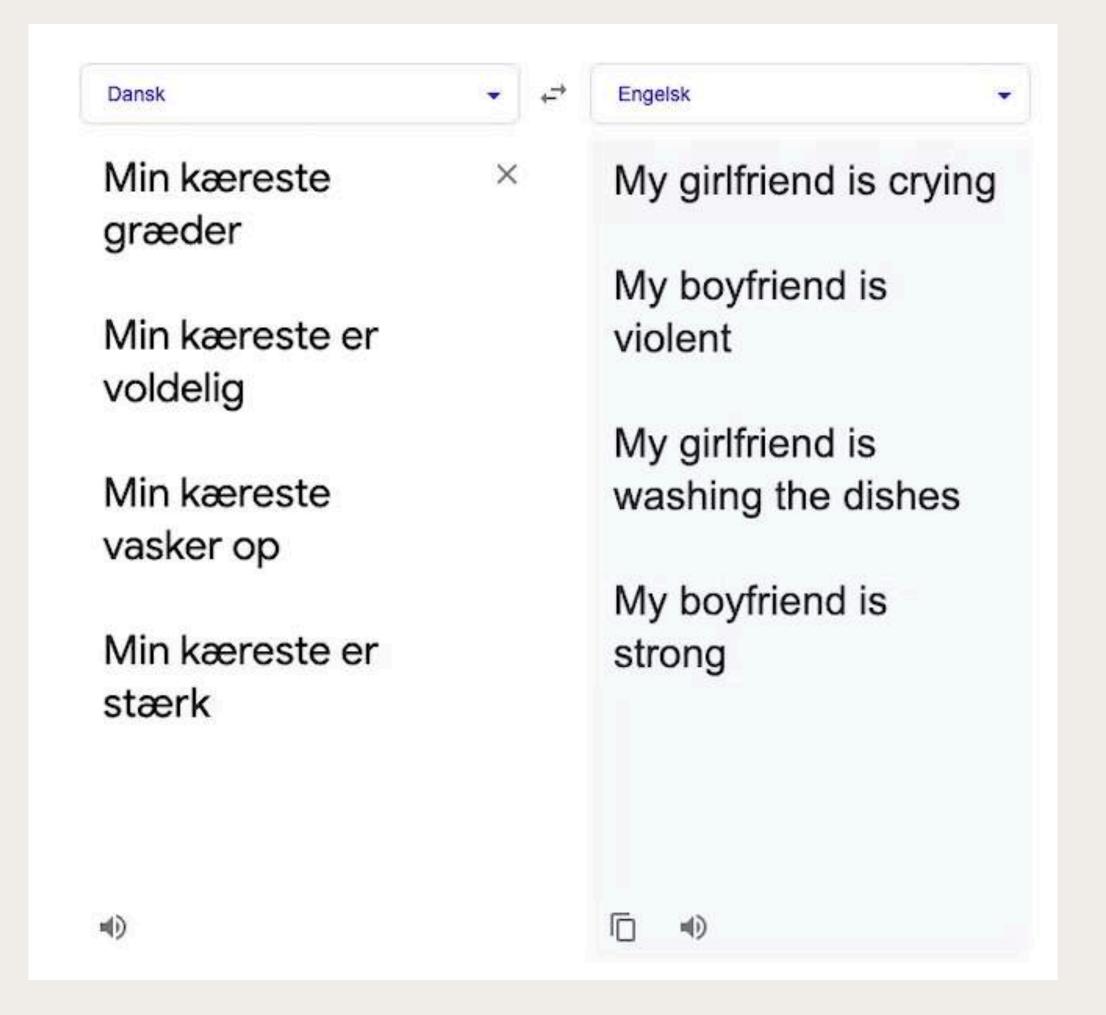
After your tenth attempt you will need to start again and re-enter the CAPTCHA security check.

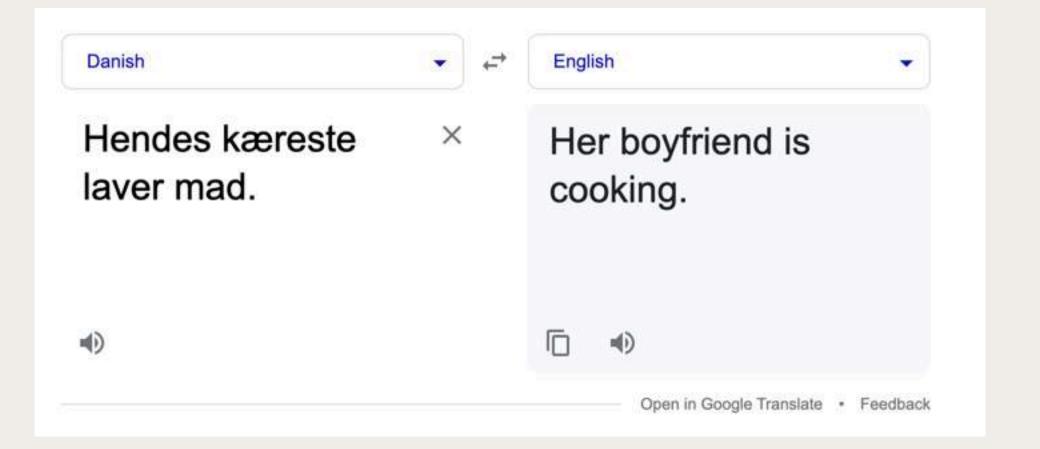
Reference number: 20161206-81

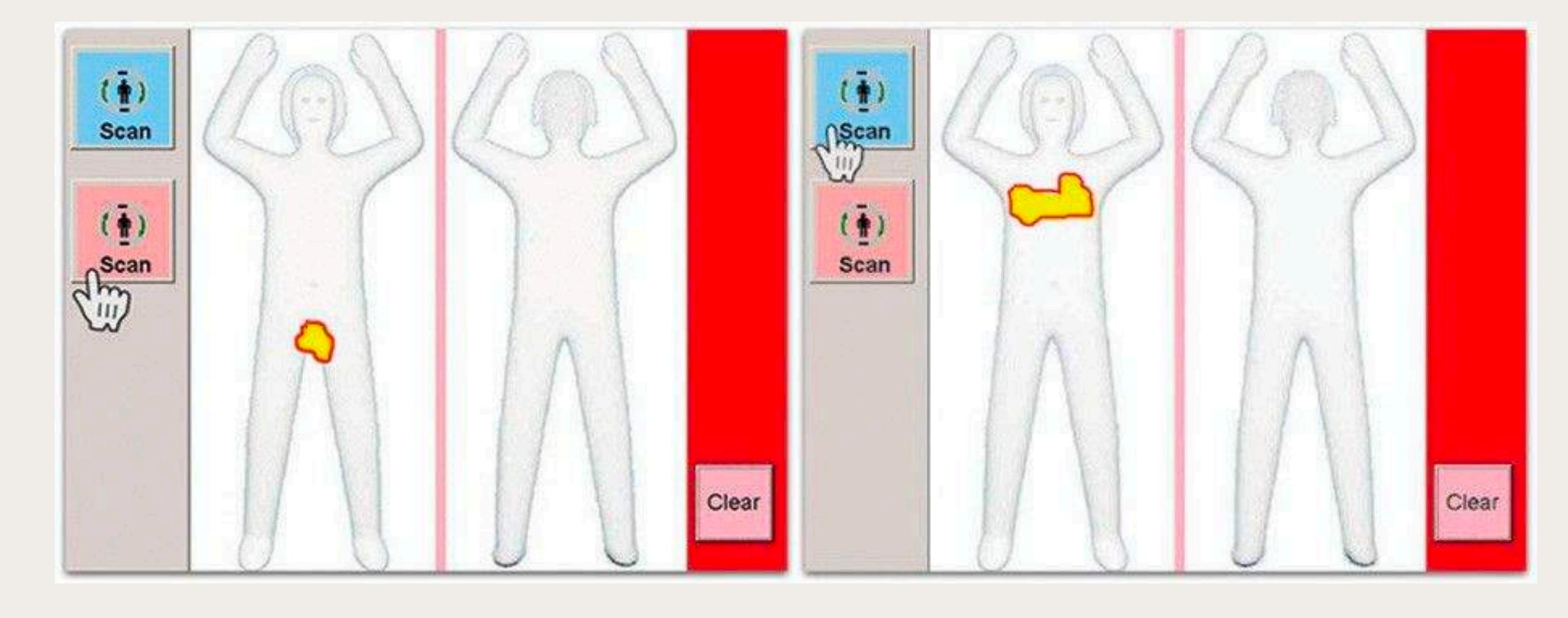
Filename: Untitled.jpg

If you wish to <u>contact us</u> about the photo, you must provide us with the reference number given above.





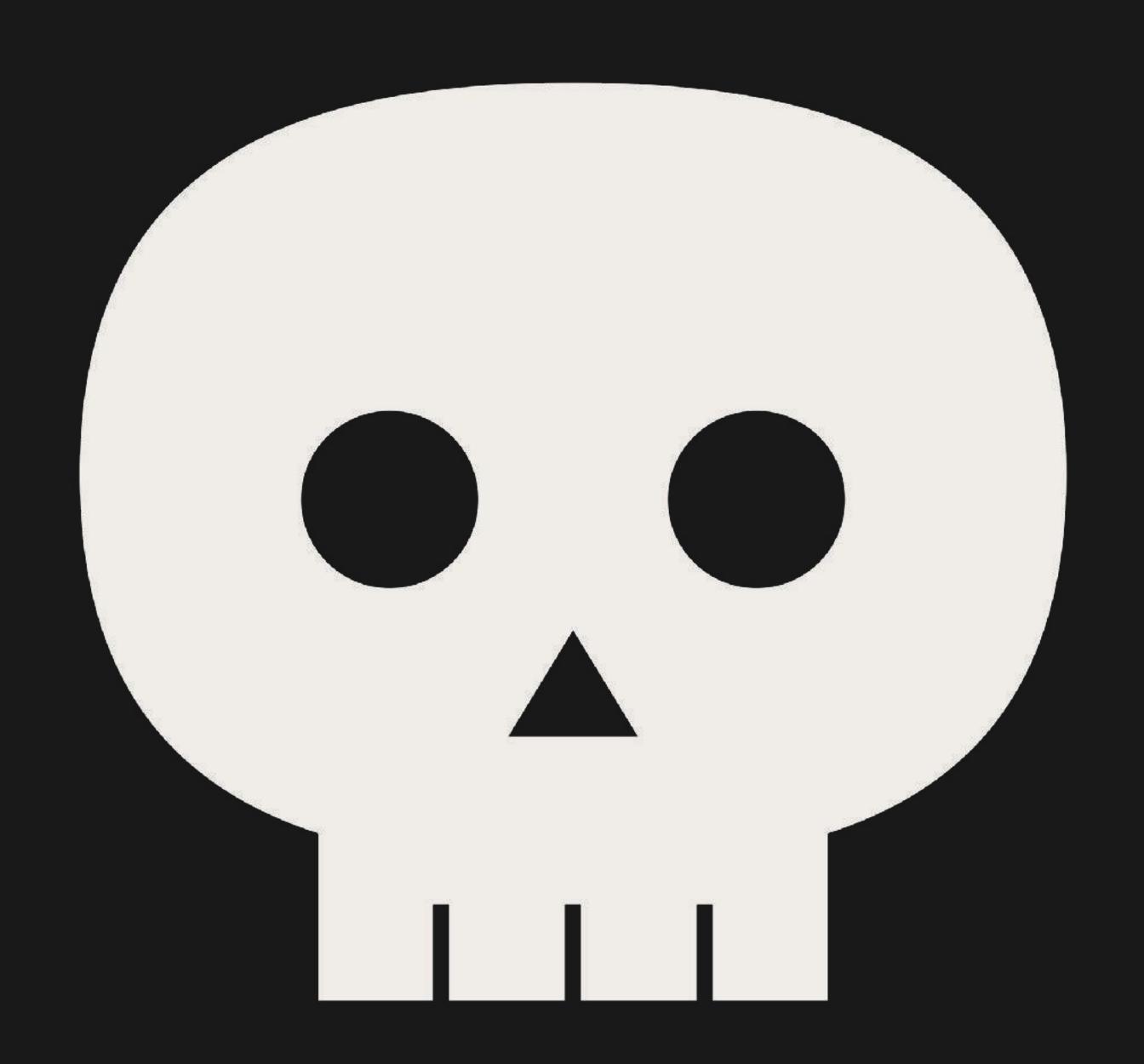






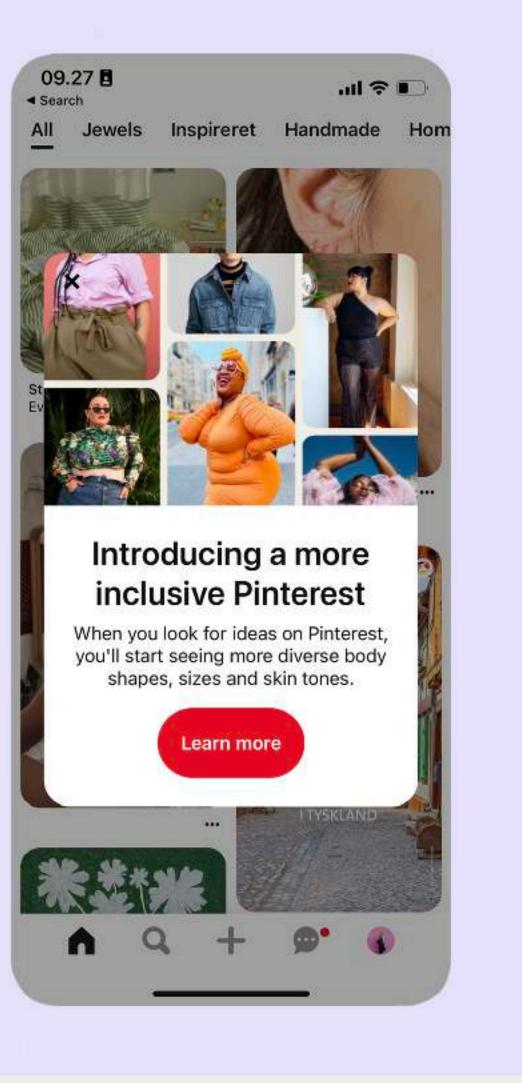
# There are professions more harmful than design, but only a very few of them.

Victor Papanek



#### Pinterest

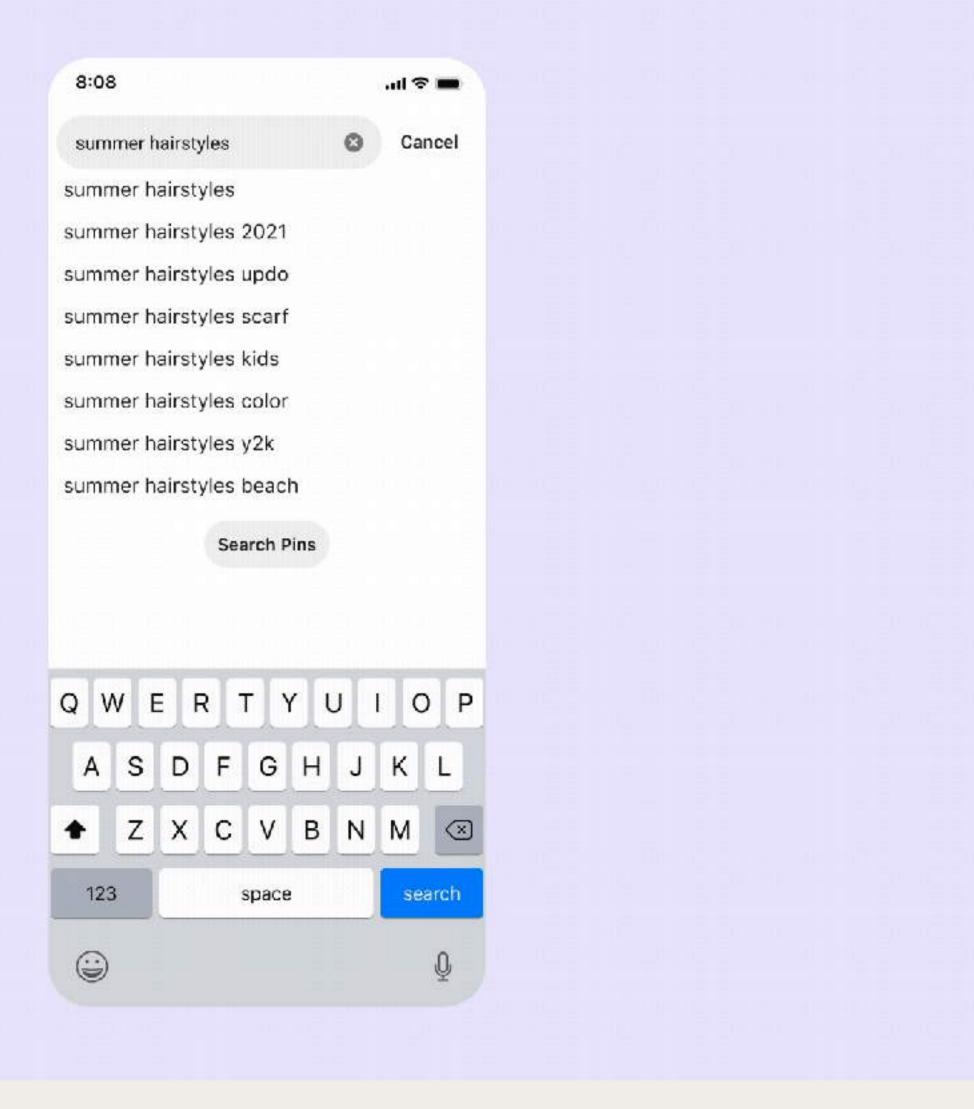




CHARLIE TANGO

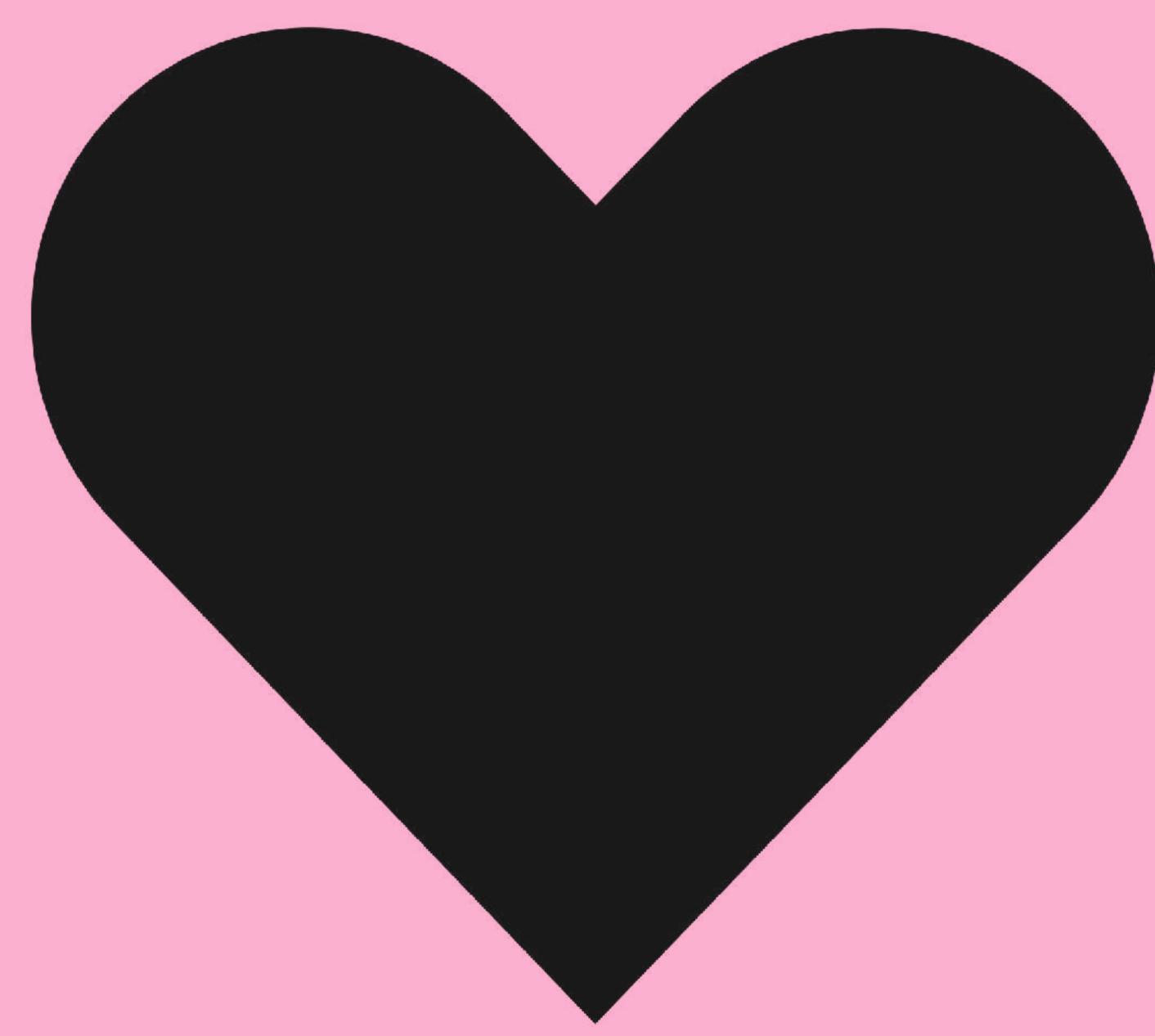
#### **Pinterest**



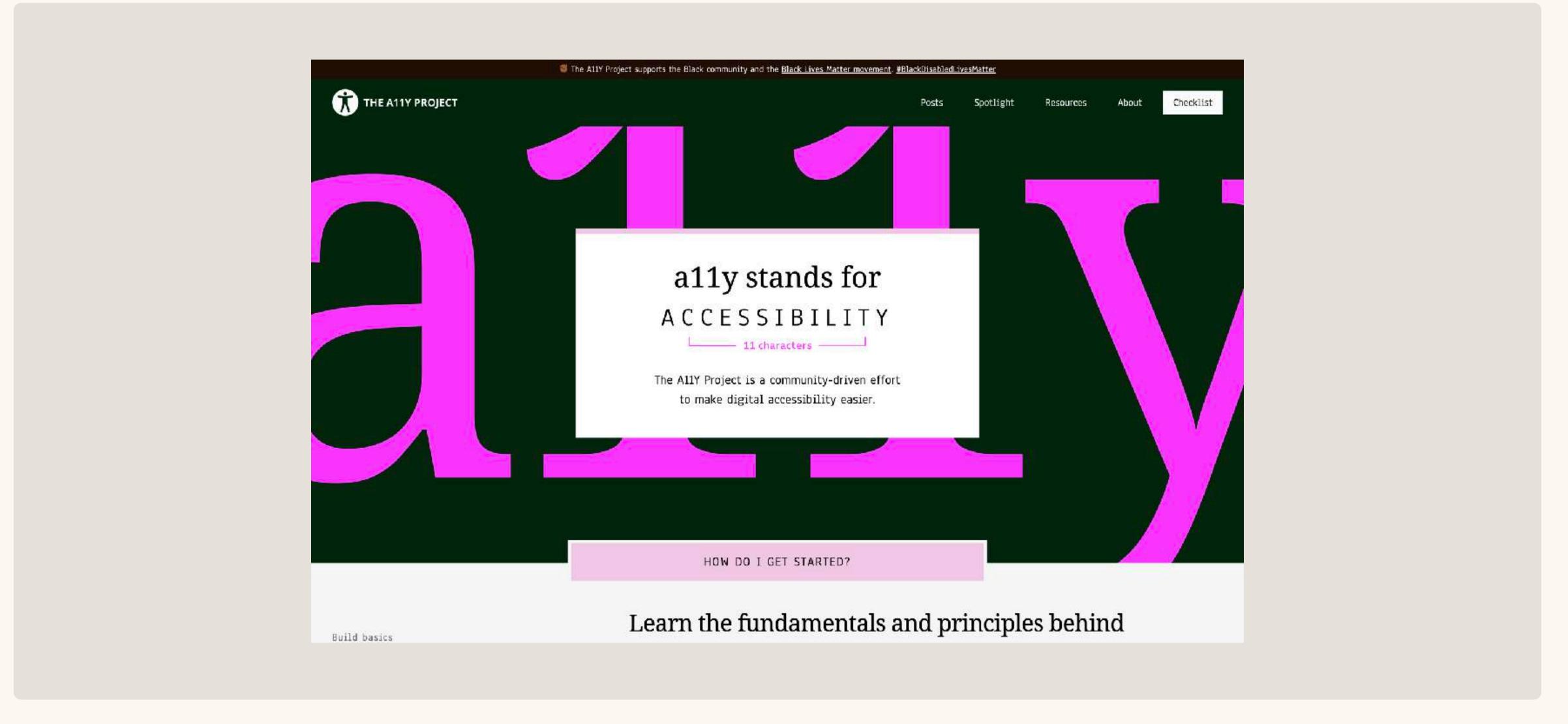




# Some of my favourite resources



#### The ally project: Offers accessibility checklist







#### Design Justice Network Principles

#### Rasmus Sanko

Chief Strategy Officer





### CHARLIE TANGO