

# What is the goal of this presentation?



### Agenda

- What is Accessibility and Inclusive Design?
- Why do they matter?
- What are compliance regulations?
- How do they apply to what I'm building?
- How can I build apps for Accessibility and Inclusive Design?



# What is accessibility?















### **Definition Accessibility**

The practice of making your products and services usable by as many people as possible.



# Disability



Personal
Health
Condition

# Disability



Mismatched Human Interactions

## Focusing on

# People with disabilities (age-related as well)

- Visually impaired (Color) blindness
- Hearing impairment (Partially) deaf
- Mobility impairment Paralyzed, RSI, Wheelchair
- Cognitive impairment
   Seizures / Learning

### People facing situational barriers

- Multitasking
- Cultural / social differences
- Language differences



# The Problem with "Good Design"



### What is Inclusive Design?

Involves designing products and services to be usable by everyone to the greatest extent possible, without the need for adaptation





# Why does it matter?

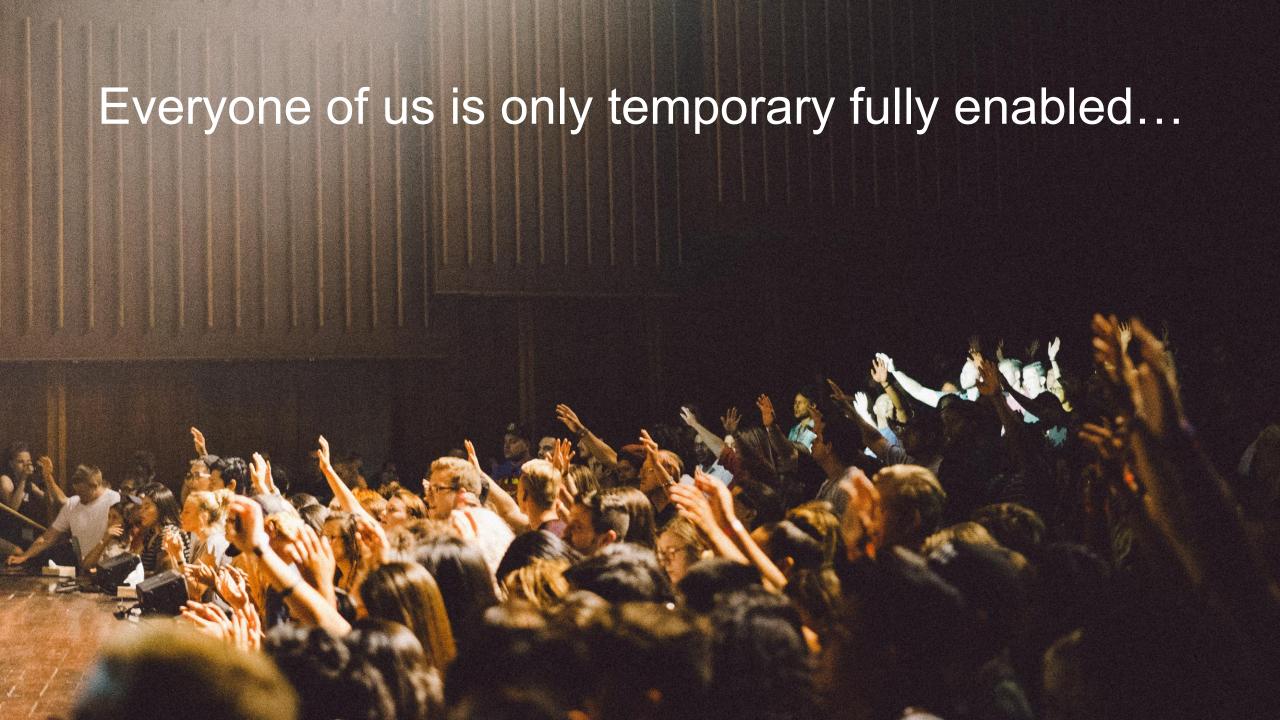












# WCAG, ATAG, 508, ADA, EN 301 549

What do they all mean?



### What are compliance regulations?

All these standards have the same goal:

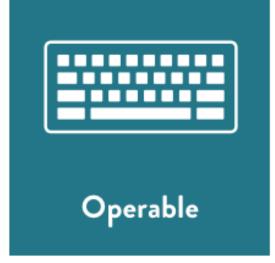
To make your products and services usable by as many people as possible.



### What is WCAG?

WCAG 2.0 is the technical standard featuring 12 guidelines under four principles:











### What is WCAG?

### Level A

We <u>must</u> satisfy these requirements, otherwise it will be impossible for one or more groups to access the web content

### Level AA

We **should** satisfy these requirements, otherwise some groups will find it difficult to access the web content

### Level AAA

We <u>may</u> satisfy these requirements, in order to make it easier for some groups to access the web content





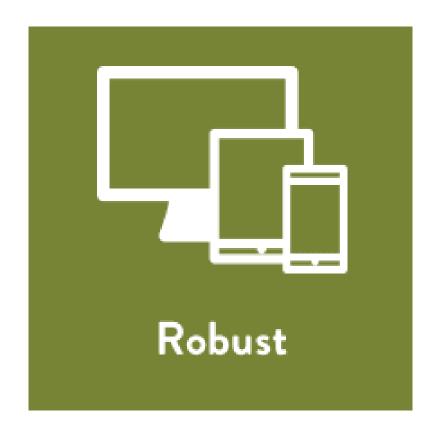














# Applying it in your app

**Examples and Best Practices** 



### Adhering to color contrast ratios

My text color is #000000 at 18 px and regular weight

My background color is **#DFDFDF** 

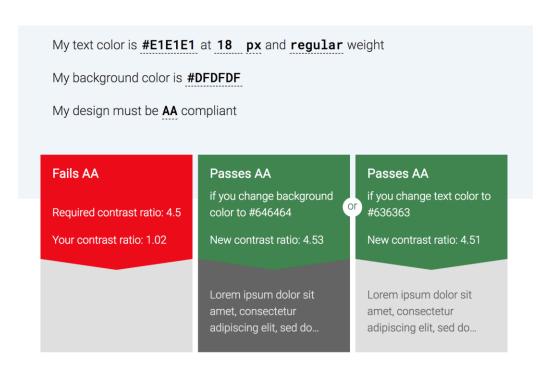
My design must be AA compliant

#### Passes AA

Required contrast ratio: 4.5

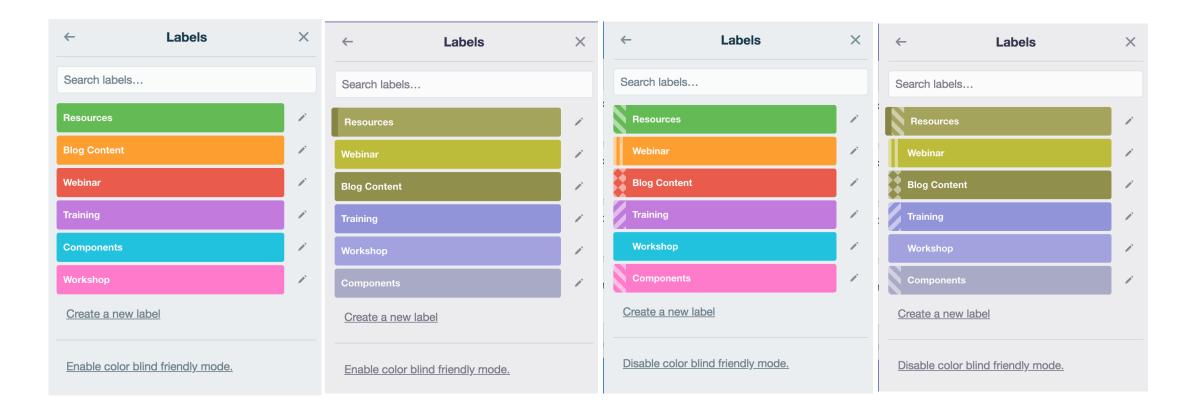
Your contrast ratio: 15.76

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do...



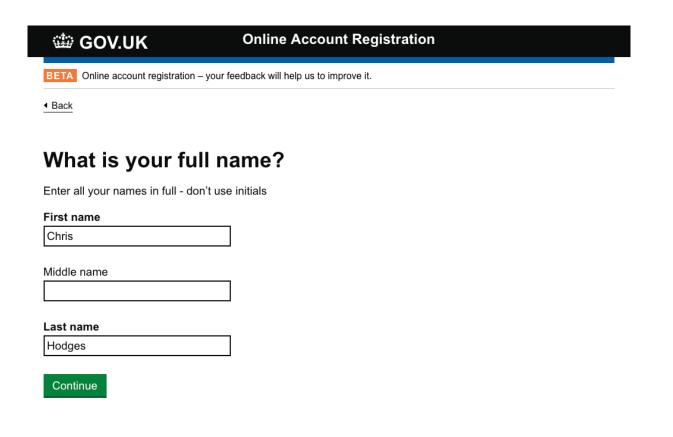


### Not relying on color alone for critical information





### Clear & Consistent Layouts



<b>⊞</b> GOV.UK	Online Account Registration
BETA Online account registration – your	feedback will help us to improve it.
<b>◆</b> Back	
What is your emai	l address?
Email address We'll use this for your username	
cjfh1990@gmail.com	
Confirm your email address	
cjfh1990@gmail.com	]
Continue	
∰ GOV.UK	Online Account Registration
	feedback will help us to improve it.
Back	

### Please create a password for your account

Your password has to be at least 8 characters long and must contain at least 1 lower-case letter, 1 capital letter and 1 number. Never share your password with anyone.

Password
Re-enter the password

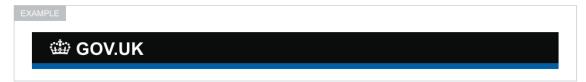




### **Consistent Navigation**

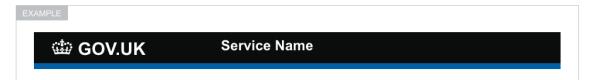
#### Simple services

Use the GOV.UK standard header if your service is just a few pages long:



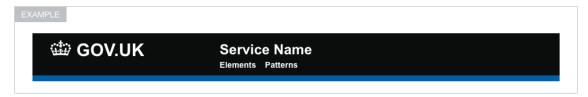
#### Header with service name

Add the standard header with service title if your service is more than 5 pages long - this can help users understand where they are:

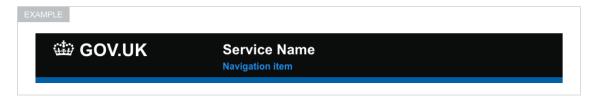


#### Header with navigation

Use the standard header with propositional navigation if you need to include basic navigation, contact or account management links:



Use the standard header with a propositional link if you only need to add one link:

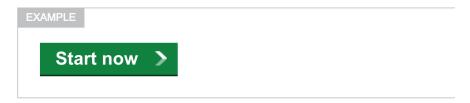




### Consistent use of icons & imagery

#### Start now button

Launch your service with a Start now button.



### **Button alignment**

Align the primary action button to the left edge of your form, in the user's line of sight.





### Create a typography hierarchy

### **Heading 1**

This is an intro paragraph at 24px. Maecenas faucibus mollis interdum. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor. Integer posuere erat a ante venenatis dapibus posuere velit aliquet. Curabitur blandit tempus porttitor. Vestibulum id ligula porta felis euismod semper.

### **Heading 2**

This is a body copy paragraph at 19px. Donec id elit non mi porta gravida at eget metus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Donec sed odio dui. Aenean lacinia bibendum nulla sed consectetur. Aenean lacinia bibendum nulla sed consectetur. Sed posuere consectetur est at lobortis.

#### **Heading 3**

Etiam porta sem malesuada magna mollis euismod. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Sed posuere consectetur est at lobortis. Maecenas faucibus mollis interdum. Vestibulum id ligula porta felis euismod semper. Donec id elit non mi porta gravida at eget metus.

#### Heading 3

Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Donec sed odio dui. Donec id elit non mi porta gravida at eget metus. Nullam id dolor id nibh ultricies vehicula ut id elit. Nullam quis risus eget urna mollis ornare vel eu leo.



### Labels, captions, & transcriptions

### What is your full name?

Enter all your names in full - don't use initials

First name	
Middle name	
Last name	
Continuo	



# Designing usable focus states

Email addı	ess	
Password		
Sign in		



### Helping users recover from errors

There are errors on the page.

Enter your first name
Enter your last name

### What is your full name?

Enter all your names in full - don't use initials

First name Enter you first name	
Middle name	
Last name	
Enter you last name	
	•



Continue

### Present content in a meaningful order

1

### Register to the Online portal

- 2 Use this service to apply to register or to:
- update your name, address or other details on the council register
- · sign up to receive bills electronically
- view account payments

You may need the following, if you have them:

- · your Council Tax Account number
- · your National Insurance number

You need to be registered to pay your bills online.



### Before you start

You can also register by post You can't register to online payments if you are in rented accommondation

I already have an account - back to sign in

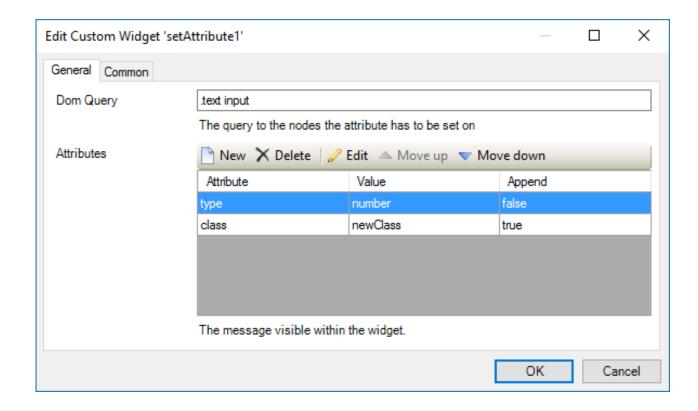


# Avoid high rates of blinking/flashing





### Set Attribute Widget







# Thank you

Any questions?

