_nology

TALENT IN **TECH**NICOLOUR

CDNs - Font Awesome/Bootstrap

Aims of the session

- What is a CDN?
- What are the benefits?
- What is Font Awesome & how do we use it?
  - Setup and syntax
- How do we make our icons links to external pages?
- What is Bootstrap and what is it useful for?
- How do we use Bootstrap?

Why?

Speed?

Re-use?

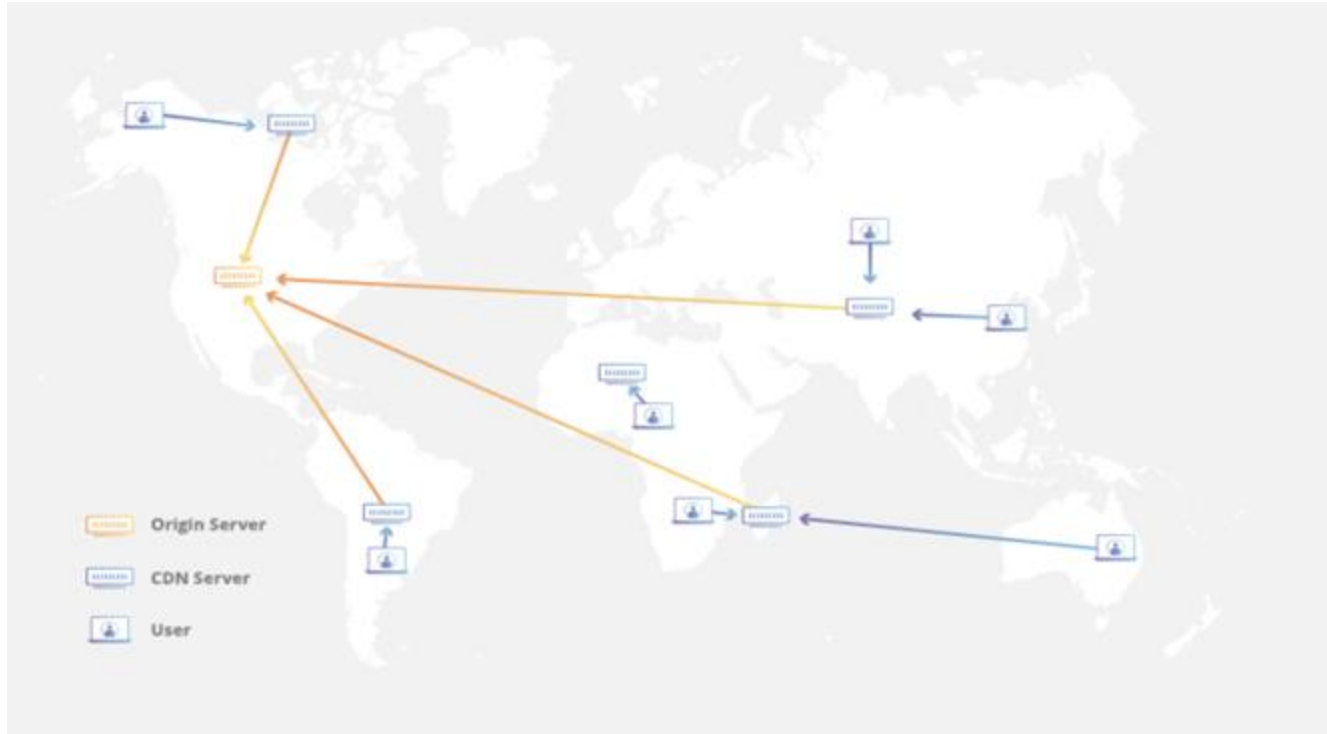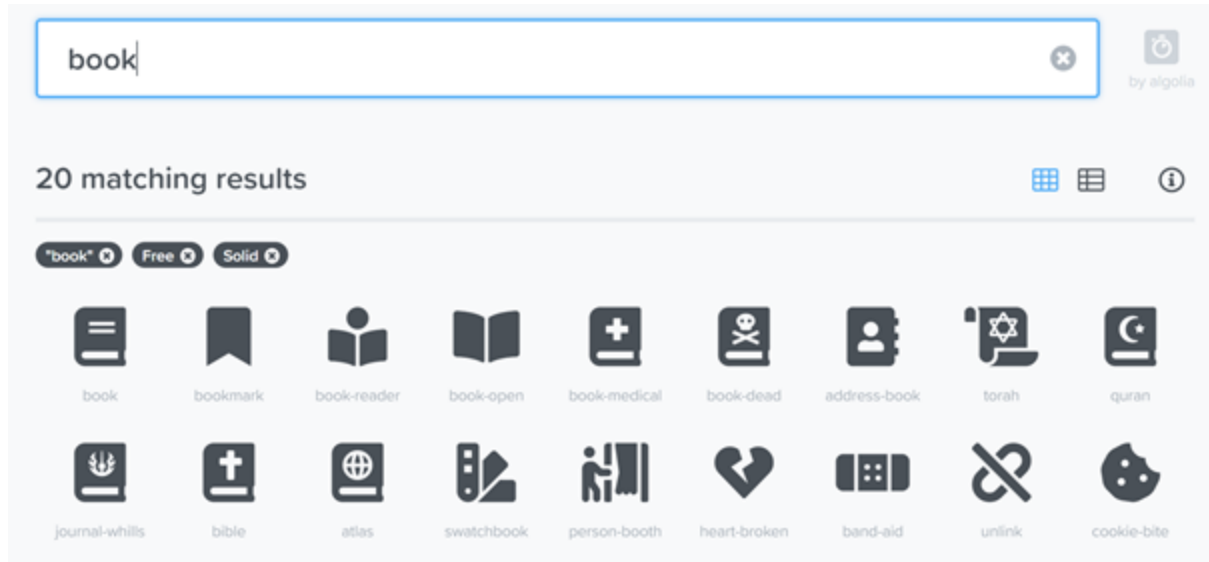**Content Delivery Network**

Happy users?

Ease?

What is a CDN?

- A **content delivery network (CDN)** refers to a geographically distributed group of servers which work together to provide fast delivery of Internet content.
- A **CDN** allows for quick transfer of assets needed for loading Internet content including HTML pages, stylesheets, images, videos and javascript files.
- There is a certain risk in using a CDN – your website no longer needs just one server, which could fail. But the probability that the CDN servers will fail is really low.
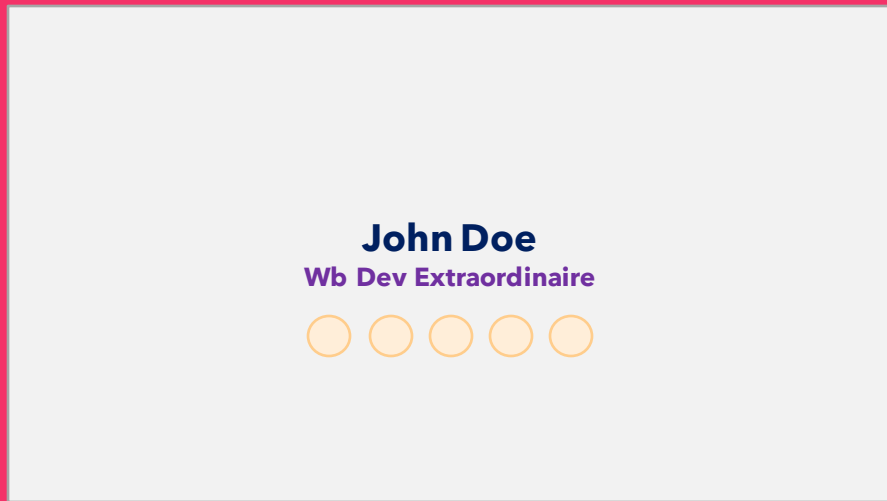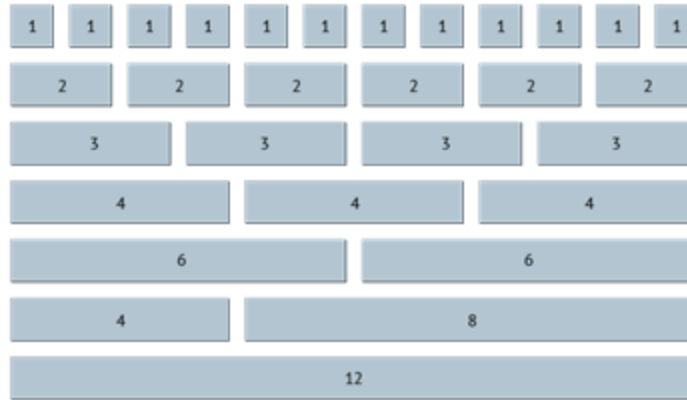
CDNs

Origin Server
CDN Server
User

Font Awesome

Font Awesome Challenge

- Grab an 'external link' icon from Font Awesome.
- Build a small contact page section using FA icons

John Doe
Wb Dev Extraordinaire

Bootstrap

- Bootstrap is a free front-end framework for faster and easier web development.
- Bootstrap also gives you the ability to easily create responsive designs.
- Most popular framework of its type.
- Originally designed by former **Twitter** employees Mark Toto and Jacob Thornton to be the interface used by **Twitter** to keep all the components and elements of their website consistent.

1	1	1	1	1	1	1	1	1	1	1	1
2		2		2		2		2		2	
3			3			3			3		
4				4				4			
6						6					
4				8							
12											

Bootstrap

Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins.

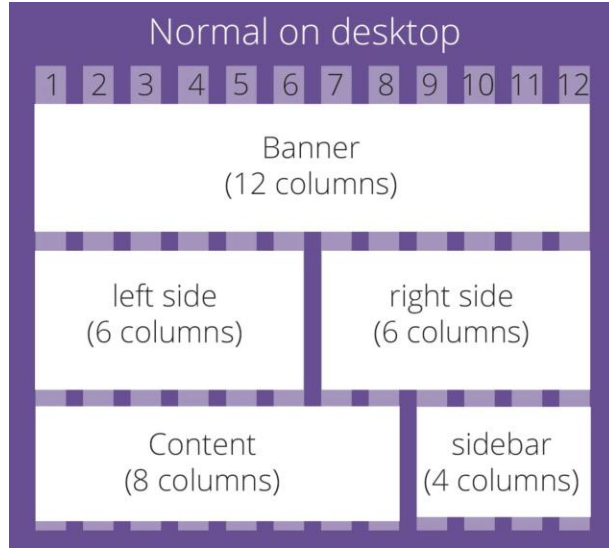## HTML/CSS Components & Helpers

- ✓ Navbar & Dropdowns
- ✓ Jumbotron
- ✓ Alerts & Progress Bars
- ✓ Form & Input
- ✓ Buttons & Links
- ✓ Labels & Badges
- ✓ Icons

- ✓ List Groups
- ✓ Wells & Panels
- ✓ Pagination
- ✓ Thumbnails
- ✓ Tables
- ✓ Grid System
- ✓ Responsive Utilities

How?

Using class names that bootstrap recognise, that they have set. A particular class name will mean a particular styling effect on that element.

```html
<p class="text-lowercase">Lowercased Text.</p> // lowercased text.
<p class="text-uppercase">Uppercased text.</p> // UPPERCASED TEXT.
```
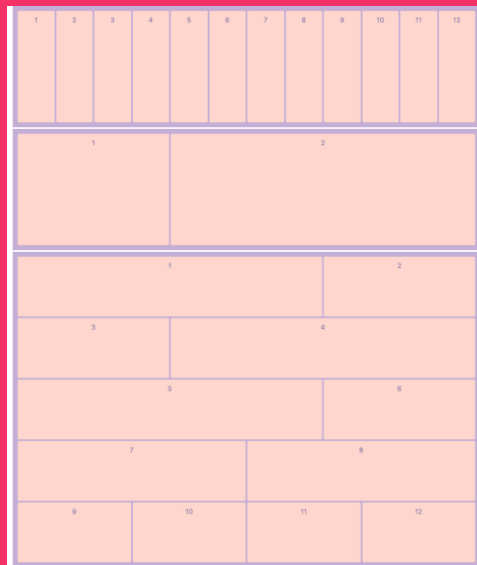
Grid - Responsive Layout

Normal on desktop

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

Banner
(12 columns)

left side
(6 columns)

right side
(6 columns)

Content
(8 columns)

sidebar
(4 columns)

Break Points

Break Point	Devices
xs: 0+	Phones
sm: 576px+	Tablets
md: 768px+	Older Square Desktops
lg: 992x+	Desktops
xl: 1200px+	Widescreen Desktops

Bootstrap Challenge

- Set up your own index.html and styles.css and recreate the following using bootstrap grid.

Bootstrap Challenge Extension

Choose one of the following websites...

- https://www.paradiso.nl/en
- www.ebay.co.uk
- https://www.clearmotion.com/

...And replicate using the Bootstrap you have learnt today, and the docs for any further information.

_nology

TALENT IN **TECH** 2COLOUR

Additional resources

https://www.cloudflare.com/en-gb/learning/cdn/what-is-a-cdn/
https://www.colocationamerica.com/blog/cdn-advantages-and-disadvantages
https://www.w3schools.com/icons/fontawesome_icons_intro.asp
https://www.w3schools.com/bootstrap/bootstrap_get_started.asp
https://getbootstrap.com/docs/5.0/getting-started/introduction/