

Welcome to Twitter!

What we'll be doing

- 1. HTML
- 2. CSS
- 3. Embedding YouTube Videos, Maps & Fonts
- 4. Saving your websites for later
- 5. Q&A



Hack the News

aka 'How to Use Chrome Developer Tools'

- Open Google Chrome (Even if you use another browser usually, Chrome's Developer Tools are the best)
- 2 Go to bbc.com/sports

3 Right click on the page and choose "inspect element"

This opens the Chrome Developer Tools, which shows the HTML that makes up the page

- 4 Click the pointer in a box icon (in the top left of the Chrome Developer Tools) to inspect the page

 It'll turn blue when it's active
- Click on the part of the page you want to change
 It should get highlighted when you hover over it
- 6 Edit the HTML to change the page!



Hack the News

*not really, honest, really

1

Using Chrome Devtools, we can change the HTML on a page

2

That allows us to change text and images

3

But luckily, only on our computers - when we refresh it changes back (phew!)

HTML

Hyper Text Markup Language

HTML is the language used to build every website on the Internet

(it really is that important!)



HTML defines the <u>structure</u> and <u>content</u> of a web page

(not what the page looks like - that comes later)



What do we mean by structure?

Headings
Links
Images
Forms and buttons

But not what those elements look like

Here are some websites with only the HTML displayed

Homepage

Accessibility links

- Skip to content
- Accessibility Help

BBC iD

- Home
- News
- Sport
- iPlayer
- Sounds
- CBBC
- CBeebies
- Food
- Bitesize
- Earth Arts
- Make It Digital
- Taster Local
- · Tomorrow's World
- TV
- Radio Menu

Search the BBC Search

Search the BBC

BBC Homepage

Welcome to the BBC

Tuesday, 6 November

Customise your Homepage

England recover in first Test against Sri Lanka. Live now.

From Cricket

British sailor admits killing wife at sea

From UK

Five men arrested over Grenfell Tower bonfire video













Your device may support a newer version of Twitter. Would you like to try it out?

Not now



4m



making a video, current status arguing about whether the rocket would have flames coming out of the boosters in space.









Replying to @monkchips

twitter.com/physicistdanny...

View conversation ·





@samanthabaines



IM SO EXCITED 6 twitter.com/spicegirls/sta...

View details ·

Chelsea Slater @ slates

43s

SO excited for this one, 5 amazing speakers & over 120 people registered i twitter.com/agent academy/...

View details ·

Norfolk Developers retweeted

Lenore

@LenoreRocks

55m

My latest tech piece with my copywriting hat on is all about Deep Tech. Which is not an all robot recasting of the X-Files, much to my disappointment. But is still pretty cool.... nakedelement.co.uk/deep-tech-

View details ·

James O'Brien retweeted

Richard Humphries



They look kinda ugly, but the structure and content are all still there

So, let's try writing some HTML!

During class we'll write our code down here, and the results will display over here

Coding in HTML

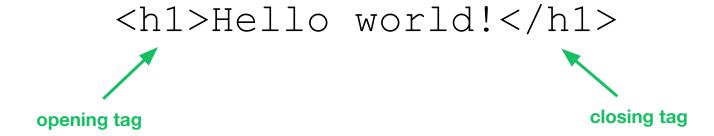
HTML uses <tags> to tell the browser the <u>structure</u> you want



But they all (well, almost all) follow the same format so they're easy to remember



HTML



The <h1></h1> is a heading.

It makes whatever you type inside the tag into a big bold heading.

Exercise 1

Use the <h1> tag to add you and your pair's name as a heading on your site



```
<h1>...</h1>
<h2>...</h2>
<h3>...</h3>
<h4>...</h4>
<h5>...</h5>
<h6>...</h6>
```



Add some different headings to your website.

Can you work out what the different headings do?

The six levels of headings are for sub-headings

- <h1> being the most important and biggest
- <h6> being the *least* important and smallest

Exercise 3

Using the tag, add two paragraphs to your page - about you and your pair.

Other text elements:

```
<strong>...</strong>
     <small>...</small>
        <em>...</em>
```



Can you work out what the , <small> and tags do?

Awesome!

- important text
 - <small> smaller text
 - emphasised text

But a website with just text would be pretty boring...

That's where comes in!

Exercise 5

Try this out below, see what happens:



Where's the closing tag?

Some tags don't need to be closed

These tags, like , are self-closing

Only tags with content inside them, "containers", like headers, paragraph and tables need closing

The value of src="" in our
code is the path of the image - where
it is on the internet

We can use any image we like - we just need to know the URL

That's the link you get when you Right Click -> Copy URL on a picture

Copies the URL for the image

Open Link in New Tab Open Link in New Window Open Link in Incognito Window Save Link As... Copy Link Address Open Image in New Tab Save Image As... Copy Image **Copy Image Address** Search Google for Image 1 1Password Inspect

Exercise 7

Copy a link to an image from a Google image search to add to your website

Use the tag to add the image to your web page

Now we've got the <u>structure</u> of your website with HTML

It's time to start thinking about the design...

Learning CSS

Cascading Style Sheets

Allow us to control the <u>style</u> and <u>layout</u> of our site

What do we mean by style?

Fonts
Colours
Background images
Borders
Gradients



What do we mean by <u>layout</u>?

Positioning Alignment Margins



So with CSS and HTML together, we can make some really impressive websites

http://www.csszengarden.com/



So how do I write CSS?

<style>...</style>

is an HTML tag that says anything inside the tag is CSS

Where do I put <style>?

Right at the top of your HTML file!



CSS

```
<style>
opening
style tag
                                       your css!
                color: blue;
         </style>
                      closing style tag
```

Exercise 8

Add your first bit of CSS to your site by adding the following to the top of your code:

```
<style>
  h1 {
    color: blue;
  }
</style>
```

Noticed what happened?

All our <h1> elements went blue!

Ok, let's break that down



CSS

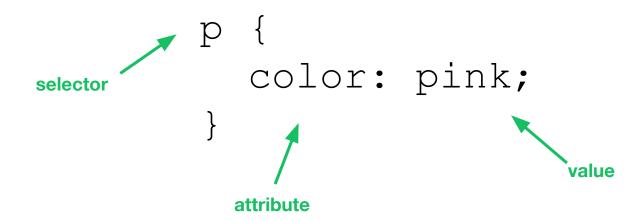
The CSS <u>selector</u> tells the browser which HTML elements to style



This styles <h1> tags



This styles tags



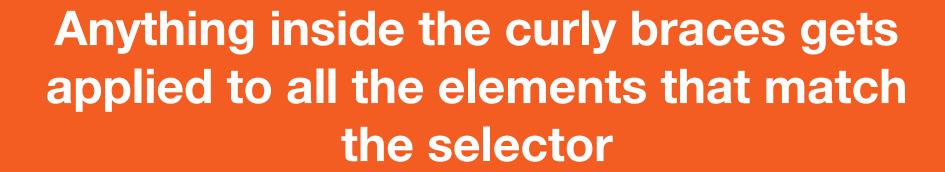
The <u>attribute</u> and <u>value</u> make up a rule about *how* the element should be styled

What are these { }?



CSS

They tell the browser which styles to apply





So what styles can I apply?

LOADS!

Waaay too many to memorise!

But they all follow the same format (just like it did in HTML)

Exercise 9

Add text-decoration to your h1 CSS and try different values: underline, overline, line-through

```
h1 {
   text-decoration: underline;
}
```

Exercise 10

Try font-size:

```
h1 {
  text-decoration: underline;
  font-size: 50px;
}
```



The px is for how many pixels tall the font should be

Exercise 11

Inside your <style> tag, add the following:

```
p {
  color: white;
  background-color: FireBrick;
}
```

background-color changes the background color of the element

Exercise 12

Try the following:

```
img {
  border: solid 5px green;
  border-radius: 3px;
}
```

Let's break that border down

border tells us the what kind of border, how thick it is, and what colour it is

border-radius rounds the corners of an element









FireBrick Cyan

Green Yellow Olive
Plum Red Beige
SeaGreen

But there are 16777216 colors to choose from!

But not all of them have names - the browser can also understand colours given as a code, like #000000 or #ffff00



Let's try the colour picker in Google Chrome Developer Tools together!



Shiny extras

Videos, maps and fonts

Let's embed a YouTube video!

We can embed other things - like maps!

And we can also have custom fonts, using Google Fonts:

https://fonts.google.com/



Saving your code

So you can have it later



http://codepen.io





Ask a Twitter Software Engineer!