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Introduction to HTML

CoderDojo - Dun Laoghaire

The Practicals

- Fire Exits
- Toilets
- Parental Supervision

- Water, Snacks

What is a CoderDojo

- Free not for Profit, Regular Sessions, For Young People

- Code, Develop Websites, Apps, Programs, Games and more!

- Meet like minded people, show off what you have done, have fun!

- "*Above All: Be Cool*"

Dun Laoghaire Links

- Email: coderdojodl@coderdojo.com
- Group WebSite: http://coderdojodunlaoghaire.com/
- CoderDojo Dublin: https://coderdojodublin.com/
- Google Groups: coderdojo-dunlaoghaire
- Twitter @CoderDojoDL
- EventBrite: http://coderdojodl1.eventbrite.ie/

- Other Dojo's – Bray, UCD, Science Gallery, Blanchardstown IT

What do you want to do?

- Learn more about computers?
- Make my own web site?
- Make my own Game?
- Build a Robot?
- Learn a Programming Language?
- Work on a Project?
- Something else?

- We need Mentor's!

WiFi Network

- Join wireless network:

- SSID: **IADT**

  Username: **coderdojo**

  Password: **january13**

- Have you got:
  - Google Chrome
  - Komodo Edit

  Installed on your laptop?

What will you do today?

-
- Make your first web page
- .. with text
- … and pictures
- …… and a map
- ……… and put it on the internet

What do you need?

- Well, a computer to start with …
- An editor
  - To write your HTML code
  - Komodo Edit
    - Or Notepad++, or TextWrangler
- A web browser
  - Google Chrome, Firefox, Safari, Internet Explorer
- A wireless network connection
  - To see the internet, get images, and publish your website
- … if you need help setting up, call a mentor

What is HTML and what does it look like?

Every webpage you look at is written in a language called HTML. You can think of HTML as the skeleton that gives every webpage structure.

```
<!DOCTYPE html>
<html>
    <head>
        <title></title>
    </head>
    <body>...</body>
</html>
```

Lets code some HTML!

Create a file and file in these tags, give your page a title!

```
<!DOCTYPE html>
<html>
   <head>
      <title>My first web page!</title>
   </head>
   <body></body>
</html>
```

Lets code some HTML!

Give your page a heading

```
<!DOCTYPE html>
<html>
    <head>
        <title>My first web page!</title>
    </head>
    <body>
        <h1>Hello World!</h1>
    </body>
</html>
```

Lets code some HTML!

Add a sub heading and a paragraph

```html
<!DOCTYPE html>
<html>
   <head>
        <title>My first web page!</title>
   </head>
   <body>
        <h1>Hello World!</h1>
        <h4>this is my first webpage</h4>
        <p>some text about myself</p>
   </body>
</html>
```

Lets code some HTML!

Highlight some text as Bold or in Italics!

```
<!DOCTYPE html>
<html>
   <head>
         <title>My first web page!</title>
   </head>
   <body>
        <h1>Hello World!</h1>
        <h4>This is my first webpage</h4>
        <p><em>Some</em> text about
<strong>myself</strong></p>
   </body>
</html>
```

Lets code some HTML!

Add an image from the web!

```
<!DOCTYPE html>
<html>
  <head>
        <title>My first web page!</title>
  </head>
  <body>
      <h1>Hello World!</h1>
       <h4>This is my first webpage</h4>
       <p><em>Some</em> text about <strong>myself</strong></p>
        <img src="http://bit.ly/11CgnVG"  />
</body>
</html>
```

- *Sample images - http://dojo.hallamor.org/eden/dunlaoghaire/images*

Lets code some HTML!

Add a link to your favourite website

```
<!DOCTYPE html>
 <html>
   <head>
         <title>My first web page!</title>
   </head>
   <body>
        <h1>Hello World!</h1>
        <h4>This is my first webpage</h4>
        <p><em>Some</em> text about <strong>myself</strong></p>
        <img src="http://bit.ly/11CgnVG"  /><br/>
        <a href="http://youtube.com">Youtube</a>
   </body>
 </html>
```

Review of HTML tags used

<h1>Big text</h1>

<h6>Smaller text</h6>

<p>This is a paragraph</p>

Bold!

Italics

Youtube

Some More Tags

Let's add some movement

<marquee>Some Text</marquee>

direction=left,right,up or down
scrollamount=X (scrolls faster/slower)
bgcolor=(some colour)

What about a map?

Google Maps makes it very easy to get the code to embed a fully working map into your page

- Go to maps.google.com
- Go to a location, enter Street View
- Click "Link" button
- In the "Paste HTML to embed into website" box there is the full code required
- … copy the code it gives you onto your page

Add some style

<style> tag inside <head> is CSS

CSS stands for "Cascading Style Sheet"

- Easily changes what your page looks like
- We'll just take a very quick look at this today

```
Body{
 background-color:black;
 color:white;
}
```

Publish your web page

So far your web pages live on your laptops only - "Publishing" means putting it on the internet for everyone to see

- Go to Mozilla Thimble
- Click "Start from Scratch"
- Paste your webpage code into the Editor
- Click "Publish"
- Copy the URL it gives you … Done!

Now Practice Some More!

Now you've made and shared your first web page!

At home, practice what you learned this week at **www.codeacademy.com** and see how many badges you can achieve.

Try making another page with different pictures and links.
Why not try embedding a YouTube video instead of a map.

 Have a look at the Google Home page, try to work out what its doing and add a Google Search bar to your page

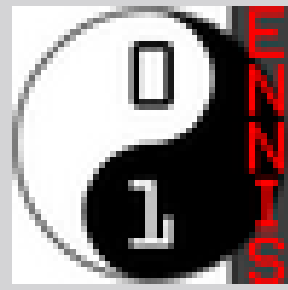Send us links to your HTML pages at **coderdojodl@coderdojo.com**

Useful Links for HTML

- Colours http://kuler.adobe.com

- Cool Fonts http://www.google.com/webfonts/

- Coding resources http://www.w3schools.com/
- Create a cool Gradient http://www.colorzilla.com/gradient-editor/
- Cool websites for inspiration http://styleboost.com/

Next Week …

Next week:

- We'll look at some HTML lists
- We'll look at CSS including styling fonts and Links
- We'll create a cool navigation menu
- We'll look at our own Group pages website