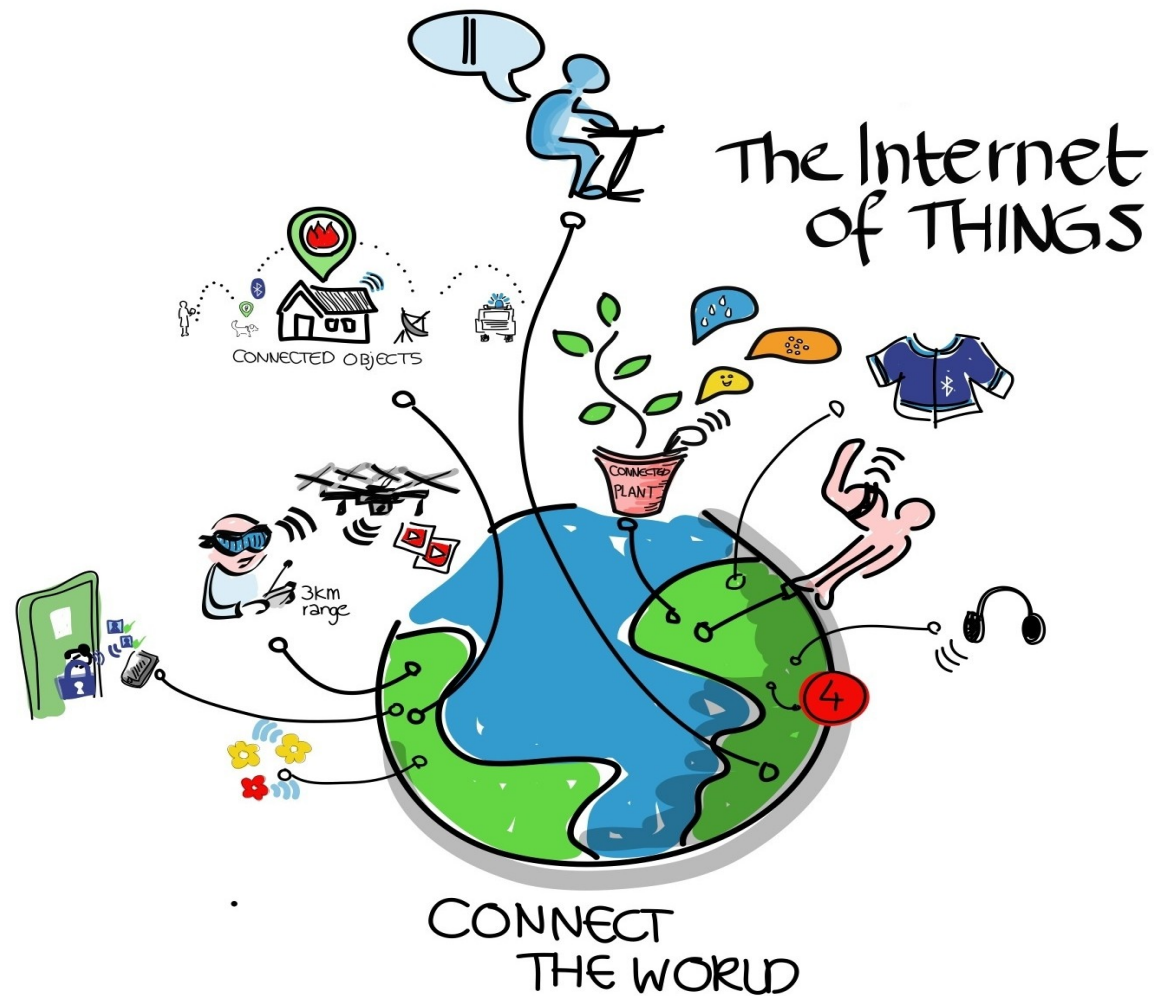# HTML

Basics

What is the Internet?

- It is millions (if not billions) of computers that can "speak" to each other
- They "speak" by sending information to you when you want to find out something
- When you access a website like Google, your computer is asking Google's computer to send your computer some information

What is the Internet?

Web browsers

- These are programs on every computer that help us access the Internet
- There are many types of browsers made by different companies
- Web browsers can open up Web Pages
- The main browsers are; Internet Explorer, Google Chrome, Mozilla Firefox

What are web pages?

- Every single website in the World is created using HTML
- HTML stands for **H**yper **T**ext **M**arkup **L**anguage – it's a special type of code that your Web Browser understands
- It is very easy
- Everyone is going to create their very first website now!

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What HTML looks like

- HTML uses a thing called 'tags'
- HTML tags look like this: <p>Put text in here</p>
- They have a start and closing tag (usually)
- <TYPEOFTAG> </TYPEOFTAG>

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Your very first website

- Open up your text editor, and type this code

<!DOCTYPE html>

<h1>My name is (add your name here) and this is my very first website</h1>

- Click 'File' > 'Save'
- Call your file 'index.html'
- Now double click your new file to open it in a browser

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Many different types of tags

- We have heading tags (h1, h2, h3, h4 …)
- Hyperlink tags
- Image Tags
- Video
- Audio

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Headings

- `<h1>Heading 1</h1>` - Biggest
- `<h2>Heading 2</h2>`
- `<h3>Heading 3</h3>`
- `<h4>Heading 4</h4>`
- `<h5>Heading 5</h5>`
- `<h6>Heading 6</h6>` - Smallest

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Paragraphs

- <p>This is a sentence</p>
- Paragraphs have a small gap between them, so if you want to write a big story

Penatibus urna dis habitasse hac nisi ac aenean pur in! Tincidunt aliquet? Ac? Mauris turpis amet mas est cum porta parturient, magnis, lundium sed? Di rhoncus duis. Enim aliquet? Tortor mattis eros etia

Penatibus urna dis habitasse hac nisi ac aenean pur in! Tincidunt aliquet? Ac? Mauris turpis amet mas est cum porta parturient, magnis, lundium sed? Di rhoncus duis. Enim aliquet? Tortor mattis eros etia

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Hyperlink

- The a tag creates a link. It looks like this:
- Click ME!
- Inside a tag, there is code called an 'attribute'. This gives the tags a little more power.
- For a link, if you want it to link to another page you must provide the URL to the page you're trying to get to.

Images

- Everyone likes to look at pictures
- <img src="image1.jpg">
- For an image to display, you can give the location of the image to the src (source).
- <img src="image1.jpg" width="400" height="200">

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Lists

- If you want to write a list, there are types
  - Bullet point lists (Unordered List)
  - Numbered lists (Ordered List)

- List Item 1
- List Item 2
- List Item 3

1. List Item 1
2. List Item 2
3. List Item 3

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Unordered Lists

```
<ul>
    <li>List Item 1</li>
    <li>List Item 2</li>
    <li>List Item 3</li>
</ul>
```

- List Item 1
- List Item 2
- List Item 3

Ordered Lists

```
<ol>
    <li>List Item 1</li>
    <li>List Item 2</li>
    <li>List Item 3</li>
</ol>
```

1. List Item 1
2. List Item 2
3. List Item 3

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Break Tag

-
- If you want to move some text down one line, you can use the break tag
- It tells the browser to break the line

Horizontal Rule(r)

- <hr>
- If you want to put a big line between one part of your web page

Online Resources

- If you want to learn HTML & CSS on your own you can try the following good websites:

- http://learn.shayhowe.com/html-css/

- http://www.codecademy.com/en/tracks/web

- https://www.khanacademy.org/computing/computer-programming/html-css

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