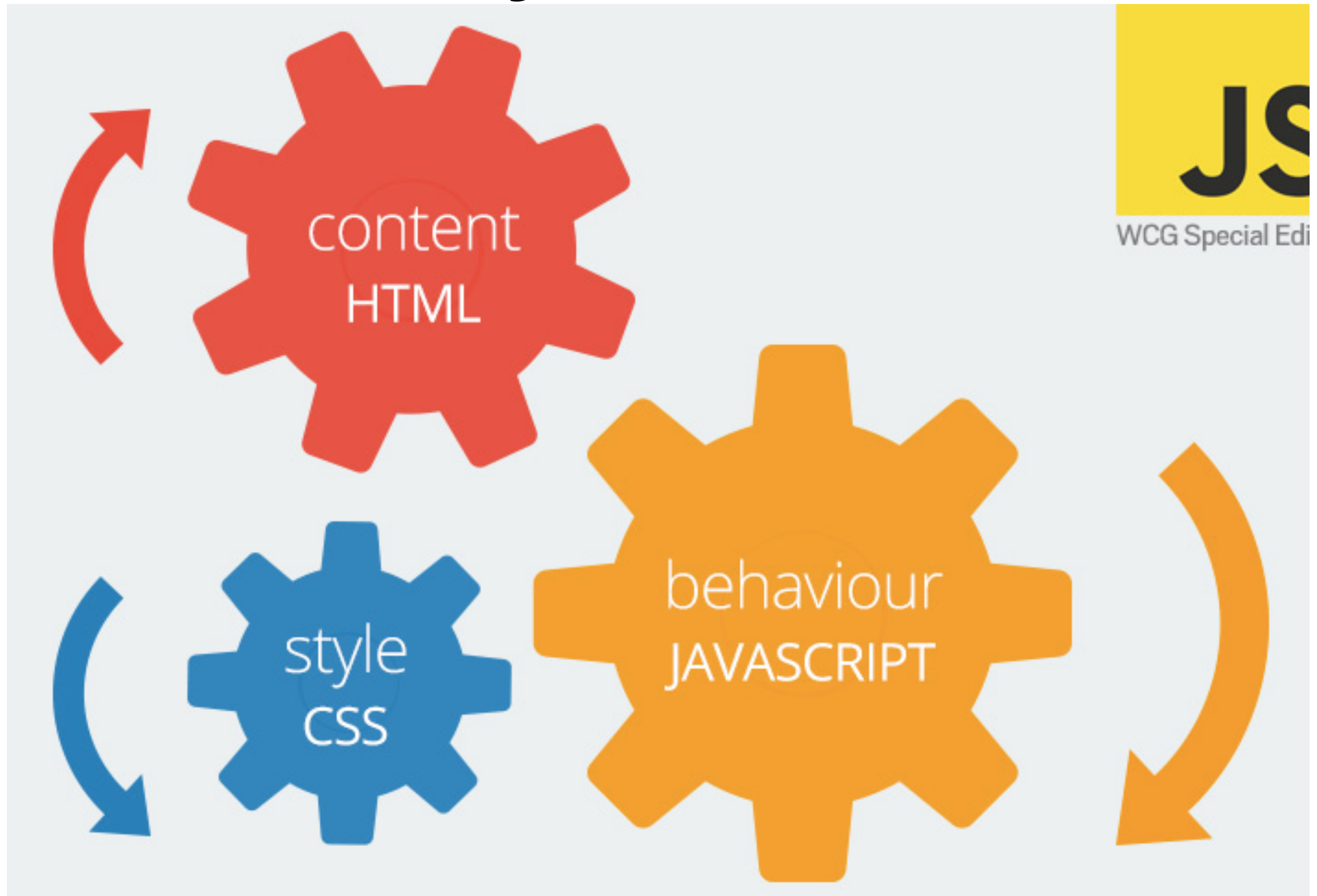


Learning to Code

Session 1

Internet 101 II HTML Basics

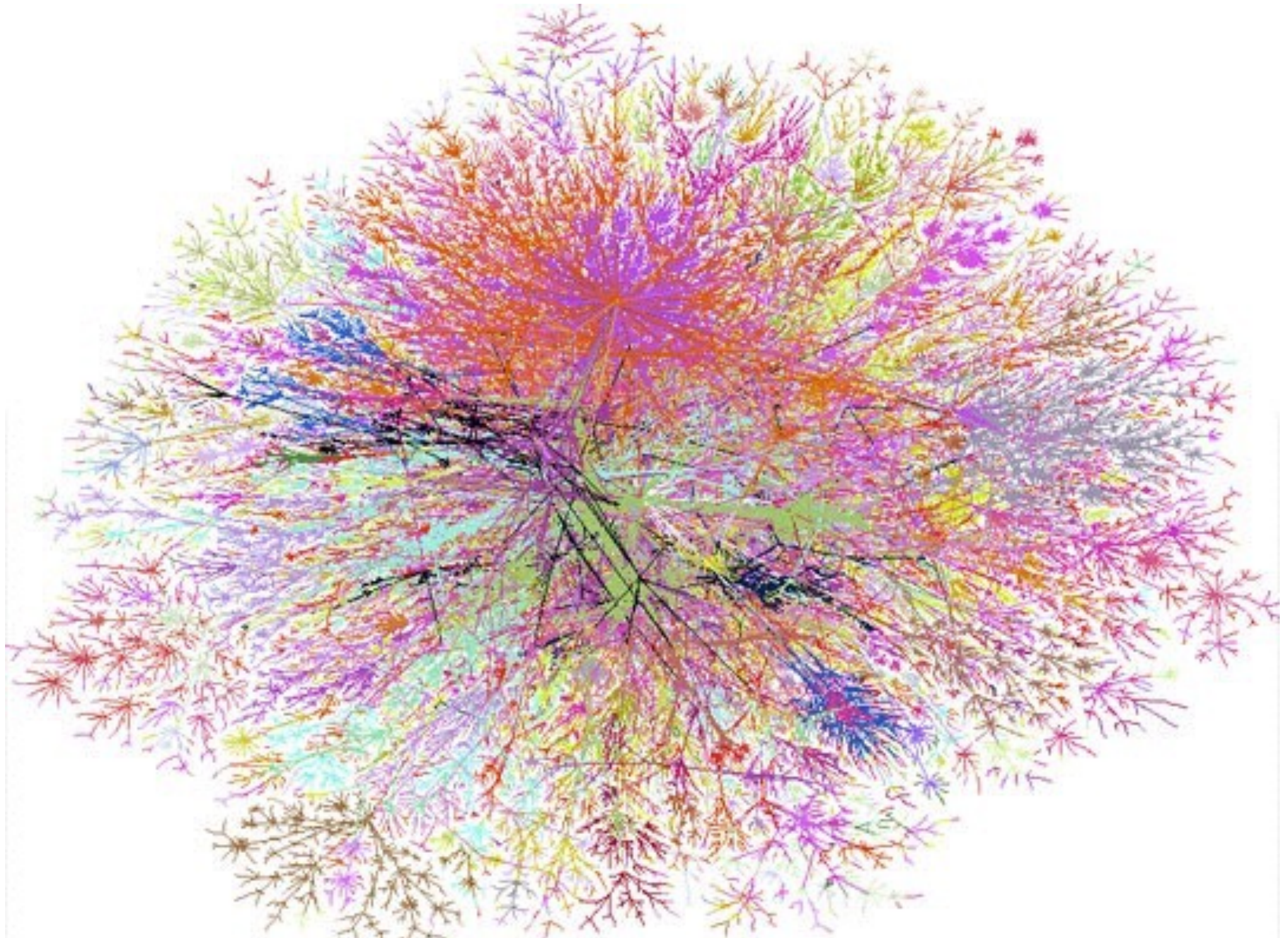
A Lovely Threesome



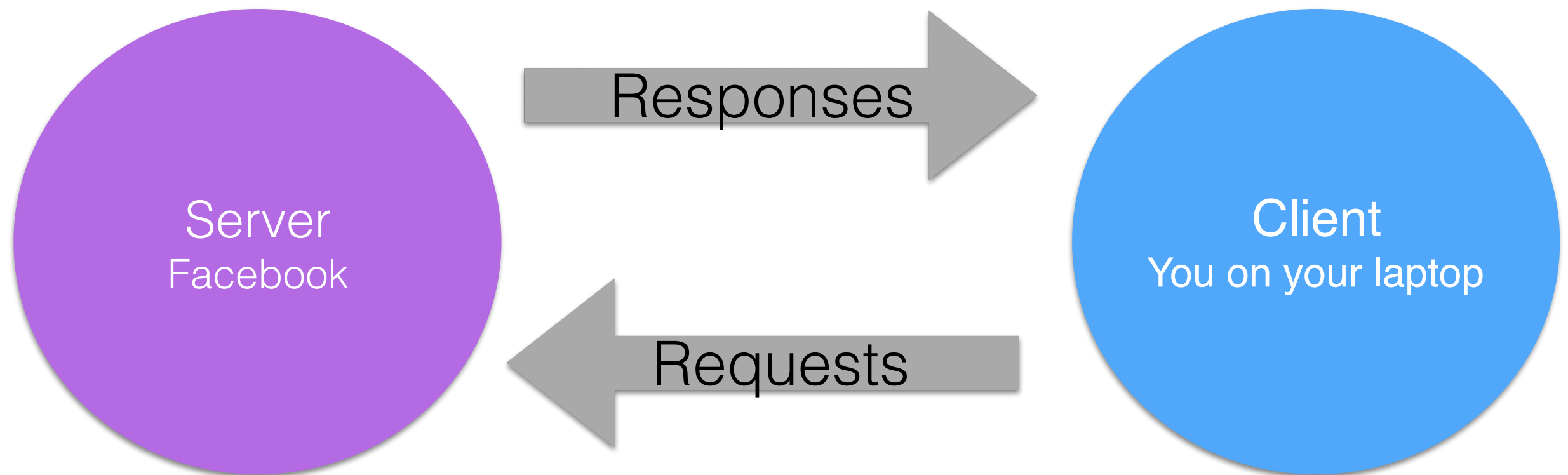
Make the News

- Open **Google Chrome**
- Go to your favourite **news site** (i.e. www.theguardian.com)
- Right-click “**Inspect**”
- Click the **arrow button** on the top left (this allows you to select an element on the page)
- Now, select a heading on the news site (remember to use the arrow button). This is highlight the HTML code - you can edit this!

How the internet works



Clients and Servers



Other Webby Things

- **URL** - Uniform Resource Locator

<http://www.bbc.co.uk/news/>

Protocol (HOW)

Host (WHERE)

Path (WHAT)

- **DNS** - Domain Naming System (like a phone number),
e.g. 213.123.245.98
- To host a website you need: a **server** and a **domain name** (which you can get from 123reg or godaddy, etc)

Front-end

- Usually consists of web design and front-end web development
- Uses HTML, CSS and usually Javascript (including jQuery)
- Generally, client-side (in the browser)

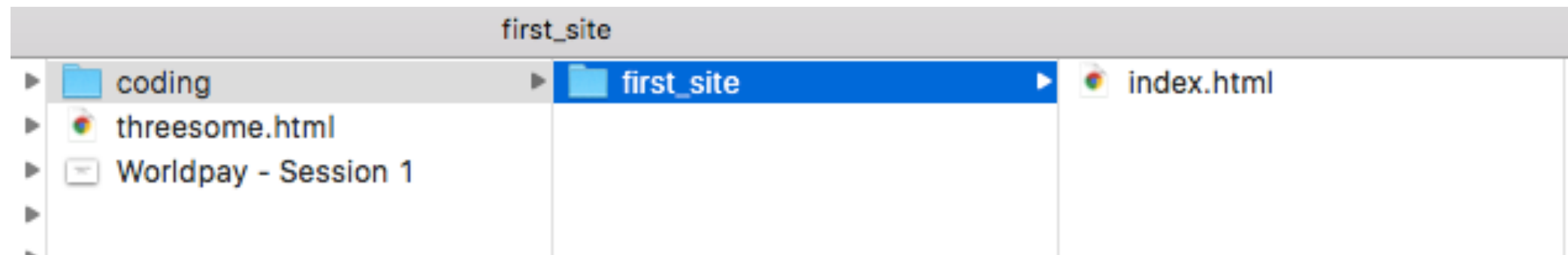
Back-end

- Usually consists of a server, an application and a database (think of this like a massive excel sheet)
- Can use a range of technologies: Ruby, Java, Python, PHP, etc
- Generally, server-side (on the website's server)

Coding Time

Let the fun begin...

- Create a new folder (called “**coding**”)
- Create a folder within this folder called “**first_site**”



- Open your text editor (Sublime, Atom, etc)
- Type:

Hello, world.
- Save this as “**index.html**” in your **first_site** folder
- Open the file in **Chrome** (right-click “Open with”)

HTML Time

- Go back to your **index.html** file in your text editor
- Change the text to

```
<h1> Hello, world. </h1>
```

- Refresh the page in Google Chrome
- This is your first line of HTML

Elements, Tags & Attributes

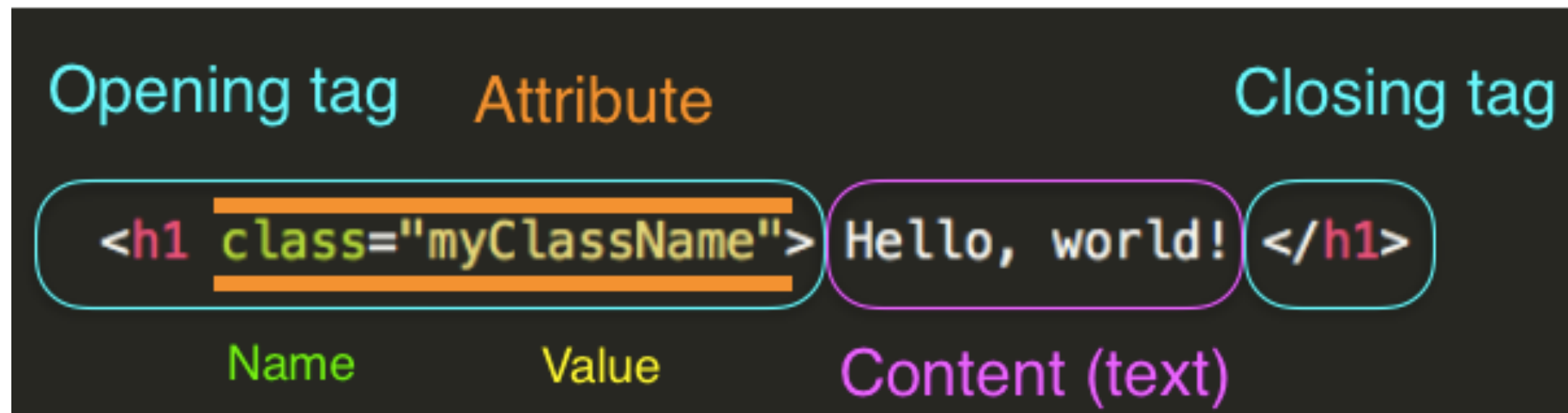
- HTML has predefined **elements** for different types of content, e.g. headings, paragraphs, images, tables
- These elements include **tags** (usually one opening, one closing and all the stuff in between)

```
<tag> Words </close tag>|  
<p> This is a paragraph. </p>  

```

- The above contains some **attributes** about the element - these contain a **name** (src) and a **value** (imagename.jpg)

Example Element



HTML DOM

- **Document Object Model** - agreed upon hierarchical layout of the HTML document
- Note: if using html4 or earlier, specific in the DOCTYPE
- **<head>** contains all the information (it's the brain)
- **<body>** is displayed on the page

Learning More / Troubleshooting

- Google
- Stackoverflow
- W3C Schools
- Codecademy
- General Assembly Dash

Homework - Blog

- Headings
- Text
- Images
- Bullet Points
- Tables
- Links
- Any extra HTML you can work out how to do

Next Time

- More HTML (include forms and buttons)
- CSS - making your site pretty