Fundamentals of html & css

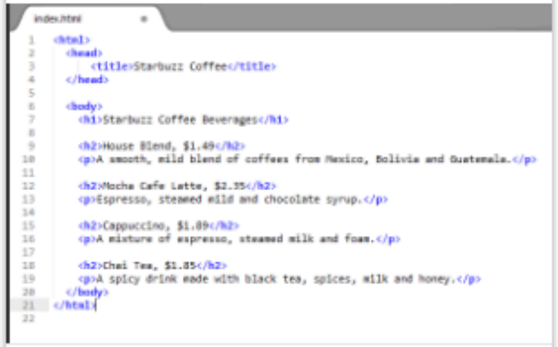
Page & Site Structure

Templating & Deployment

Style & Design

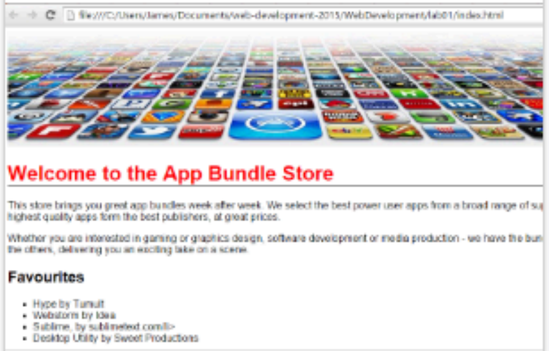
Fundamentals of html & css

Lab-1 Editing HTML



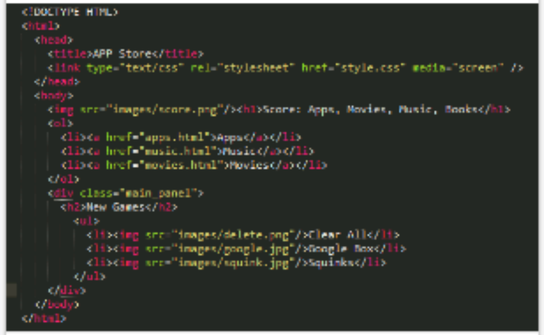
This lab will firstly introduce you to the tools we will use during the web development module and secondly introduce you to creating, editing, saving and displaying a web page.

Lab-1 HTML Structure



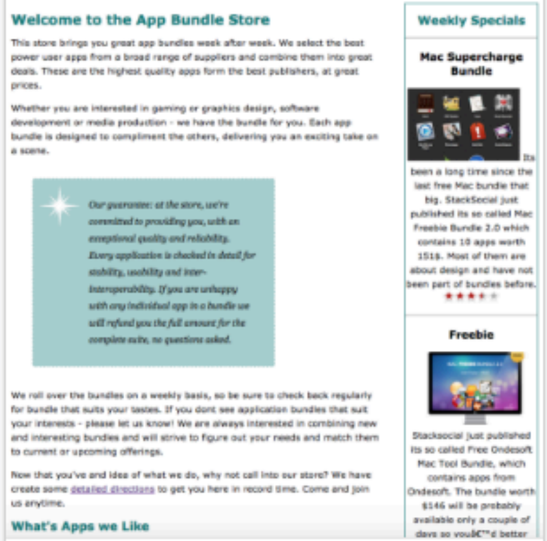
The labs are where you will do the real learning in this module. In Lab0-01 you will become familiar with the editor Sublime. We will then use this editor to create a simple multi-page web site containing a small variety of text, images and links. In this lab we will explore some of the basic features of CSS, including colours, font and interesting techniques for setting styles across entire sections of a page.

Lab-2 CSS Intro



In this lab we will begin a new project which will have CSS stylesheet from the beginning. We will explore some of the basic features of CSS, including colours, font and interesting techniques for setting styles across entire sections of a page.

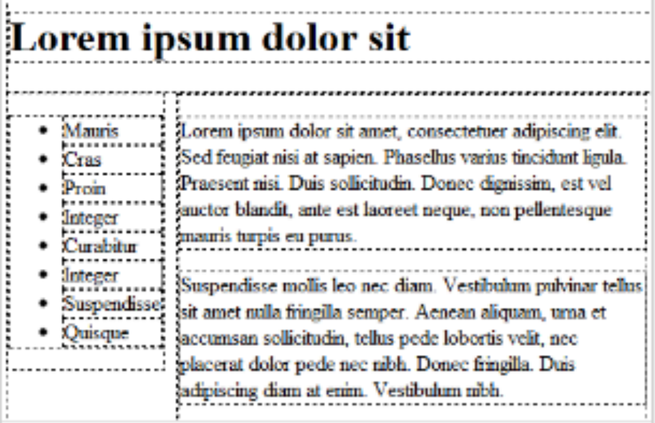
Lab-3a Layout



In this lab we will work towards developing a site with a more ambitious use of CSS. In particular, tbe box model will be used to achieve a more professional user experience.

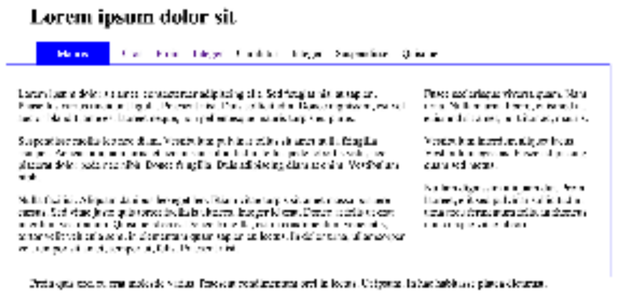
Page & Site Structure

Lab-3b Multicolumn



This weeks lab will give you more practical experience od the box model and specifically how to build a simple multi-column layout using the techniques we have explored in class. You should complete this lab before starting to consider your project in detail.

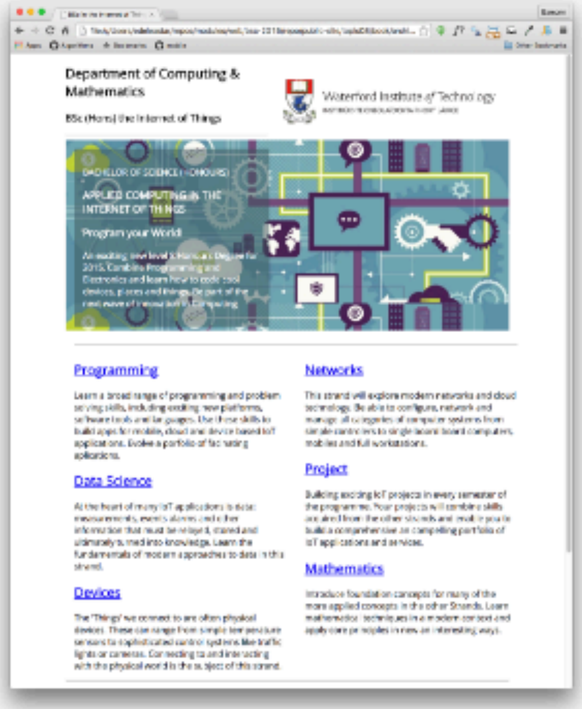
Lab-4a Navigation



Restructure the output of the last lab to participate in a tabbed navigation structure, and then produce a simple application mockup using these techniques. Do this by introducing a simple tabbed design into the site to provide the user with the visual metaphor for navigation. We then 'wire-up' these tabs to lead the user through the site. We will do this twice: once for the example content we laid out in last weeks lab. Then we will apply this to the app store site, using the same CSS rules.

Templating & Deployment

Lab-4b Case Study



Explore a web site that embodies many of the techniques we have explored so far. In the lab the web is evolved from unstyled content to a reasonably elegant and clean design - using semantic html element where appropriate.

Lab-5a Harp & Surge

Deploy anything in six keystrokes

There's only six keystrokes between you and deployment: Type `surge` and hit `enter` in your project directory to get it online immediately.

```
$ npm install --global surge
$ surge

  project: path/to/my-project
   domain: my-project.surge.sh
   upload: [============]

Success! Published and running at my-project.surge.sh
```

Install software tools to serve a web site locally and also to deploy the web site to a public web server.

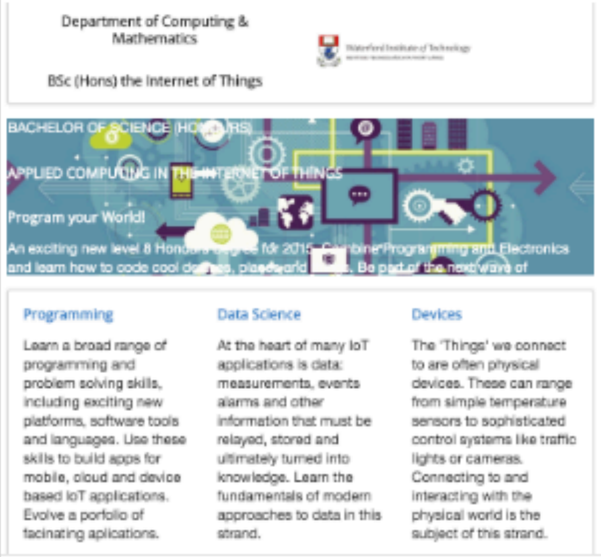
Lab-5b Templating

```
├── harp.json
├── public
|   ├── assets
|   |   ...
|   ├── includes
|   |   ├── _curriculum.ejs
|   |   ├── _footer.ejs
|   |   ├── _header.ejs
|   |   ├── _sponsors.ejs
|   |   └── _summary.ejs
|   ├── index.ejs
|   ├── strands
|   |   ├── _layout.ejs
|   |   ├── data.ejs
|   |   ├── devices.ejs
|   |   ├── maths.ejs
|   |   ├── networks.ejs
|   |   ├── programming.ejs
|   |   └── project.ejs
|   └── style.css
```

Rebuild the IoT web site from thee last lab using templating. This version of the site will aim to significantly reduce the content the author has to manage by reusing 'templates' containing common sections.

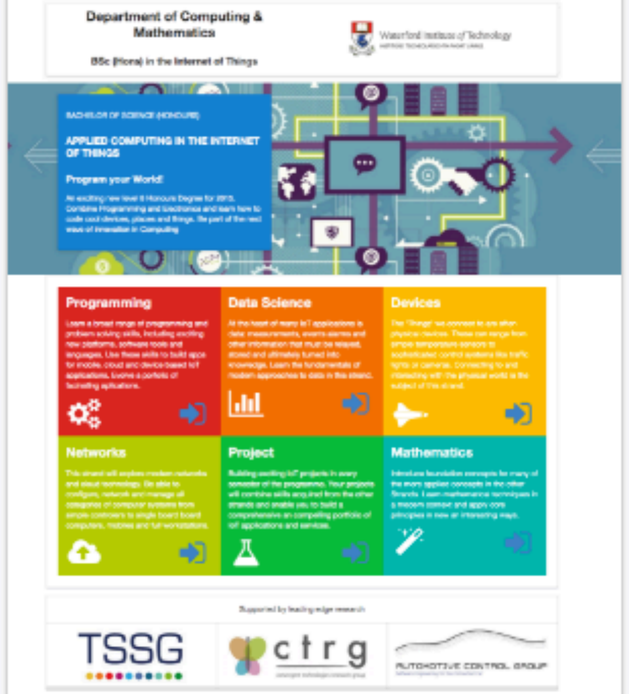
Style & Design

Lab-6a Semantic UI



Rebuild the iot web site using semantic-ui

Lab-6b Semantic UI



Continue to enhance the IoT web site with additional Semantic-UI styles & Components