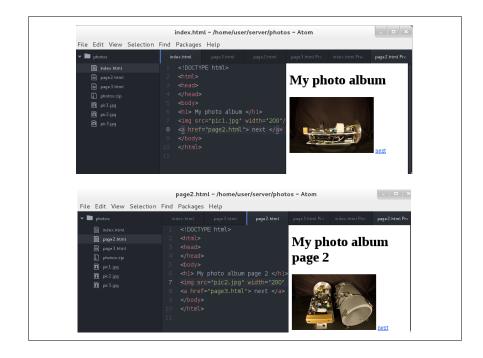
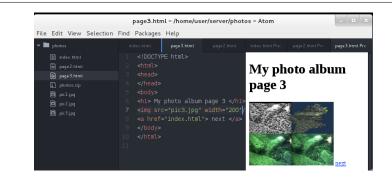
# EECS 1012: Introduction to Computer Science

September 23, 2016





Download onto Android device

#### Adding some features

- Add a previous link
- Replace text links with images
- · Structure into directories

#### Dealing with style

- When the web was younger, there was not a lot of attention paid to making pages render 'well' or 'in an intended style' on different hardware platforms.
  - That has changed...
- CSS (Cascading Style Sheets) are used to localize/ compartmentalize/specify how the content of a particular web page should appear.
  - HTML -> content
  - CSS -> style

#### HTML5 & CSS

- In general, it is considered better style to separate style information (CSS) from content information (HTML) and to put both in separate files.
- Many advantages here, but one obvious one is that it enables style to be consistent over a web site.
- HTML files end in .html
- CSS files end in .css

## Link to external CSS from HTML

```
<head>
k rel="stylesheet" type="text/css" href="mystyle.css">
</head>
```

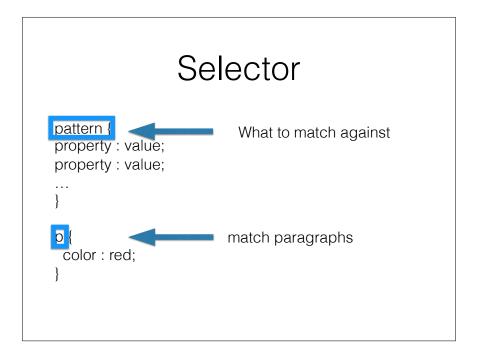
#### CSS

- Cascading style sheet
- Goal is to separate content (text) from style (how it appears)
- It has a "C-like" syntax as opposed to HTML which has an XML (eXtensible Markup Language) syntax

# 

#### CSS file

- text file
- "white space does not count" (free format)
- c-style comments
- basic element is the selector



```
Selector

pattern {
property: value;
property: value;
}

po {
color: red;
}

do things in red
```

#### Various selector possibilities

- name that HTML element (element selector)
- #name that ID (id selector)
- .name that CLASS (class selector)
   more options too, but lets start here

#### id

- <tag id="mytag"> .... </tag>
  - will match #mytag (only one)
- <tag class="myclass"> ... >/tag>
  - will match .myclass (one or more)

## 

#### **Attributes**

- Huge number, learn the ones you need
- Lets look at one or two here
- color : value;
  - · value some way of defining a colour

#### Color attribute

- there are about 140 colours defined by name (red, green, blue, orange, white, black, grey, .... midnight blue, ....)
- You can give by rgb(r, g, b) in range 0..255
- You can give by rgba(r,g,b,a) (r,g,b) in range 0..255, a in range 0 (transparent)...1 (opaque)
- by hex
  - #00fff0
- · Other choices too

### Property background-color

```
this is a pargraph
color: red;
this is h1
this is h1
this is h2
this is h2
this is id1
this is id2

this
```

## So lets do something more meaningful

- Default <body> has some wasted space around it.
  - · Lets get rid of it.
- Default <body> does not fill the entire screen
  - · Lets make that happen

#### Units

- Can specify units of length (height) in absolute units
  - px (pixels ... sort of)
  - cm, mm, pt (1/72 of inch), others
- Can specify units in relative units
  - 10%, em (width of current font often width of the 'm' character), rem (width of root html font)

#### Android

```
26 body {
27  width : 100%;
28  height : 100%;
29  padding : 0;
30  outline : 0;
31  border : 0;
32  outline : 0;
33  background-color : red;
34 }
```

Use up all the space (although the red background is just to show it working)