Software Development

Foundations
Lesson 4

Agenda

01.   CSS recap

02.   Box model

03.   CSS selectors

04.   CSS reset

05.   Text styling

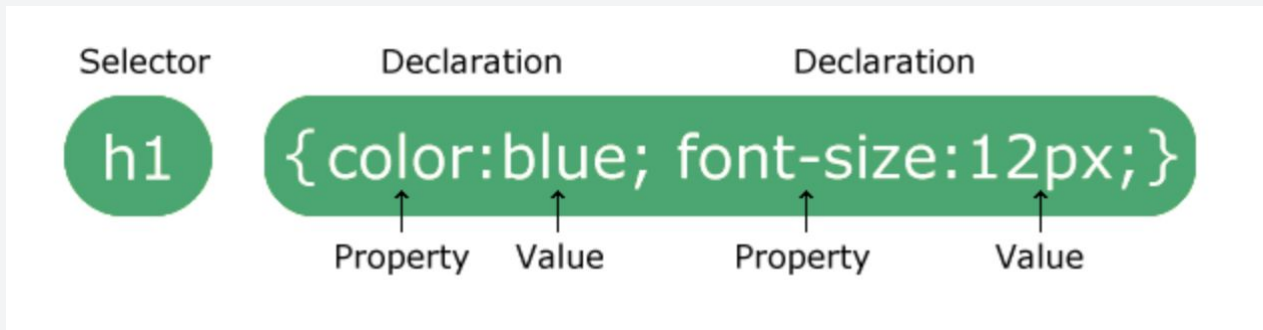**06.**   Boxes and classes exercise

Learning objectives

1. Utilize the CSS box model for website development

2. Style text using CSS

CSS recap

Define the following:

- Selector
- Declaration
- Property
- Value

Selector — h1

Declaration — { color:blue; font-size:12px; }

Property — color   Value — blue   Property — font-size   Value — 12px

CSS specificity

- Element selectors (lowest level)
- Class selectors
- Id selectors
- Inline overrides internal and external css
- specificity(inline,id,class,element tags)

CSS specificity quiz

```css
section p {
  color: red;
}
.p1 {
  color: green;
}
```

```html
<section id="section1" class="section1">
  <h2 class="title">About</h2>
  <p class="intro p1">Paragraph 1</p>
  <p class="intro p2">Paragraph 2</p>
</section>
```

CSS specificity quiz

```
.section1 p {                <section id="section1" class="section1">

  color: red;                  <h2 class="title">About</h2>

}                              <p class="intro p1">Paragraph 1</p>

.p1 {                          <p class="intro p2">Paragraph 2</p>

  color: green;              </section>

}
```

CSS specificity quiz

```css
#section1 {
  color: red;
}
p {
  color: green;
}
```

```html
<section id="section1" class="section1">
  <h2 class="title">About</h2>
  <p class="intro p1">Paragraph 1</p>
  <p class="intro p2">Paragraph 2</p>
</section>
```
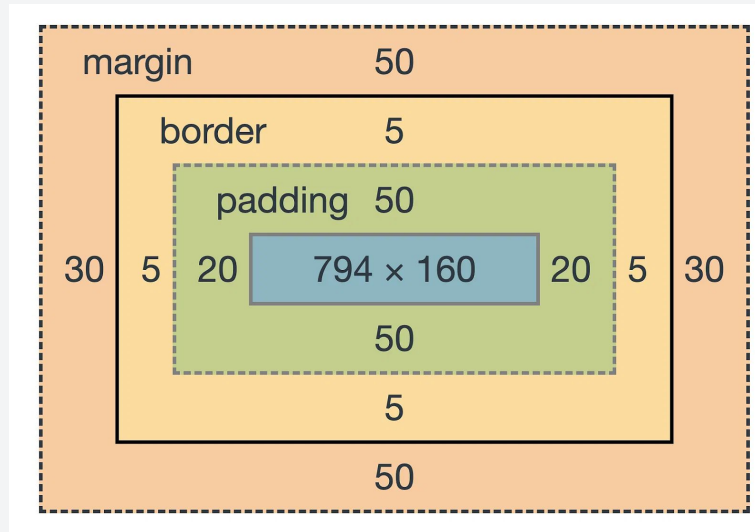
CSS box model

- Content
- Padding
- Border
- Margin
- **box-sizing** property ([values](#))
- [Interactive Demo](#)

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Exercise (20 mins)

- Create a <div> with some text inside
- Use CSS to
    - Change the background color
    - Change the width and height (try using px, %, rem)
    - Change the padding
    - Create a border with different styles and colours
    - Change the margin
    - Change the alignment
    - Change the **box-sizing** property and see what effect this has

CSS selectors

- Type (p, h1, li, etc)
- Class (.classname)
- ID (#id)
- Attribute (type[attribute])
- Universal (*)
- Grouping (separated by comma)
- Descendent (ancestor child)
- Child (parent > child)
- Other selectors can be read from [here](#)

Break

Agenda

01. ~~CSS recap~~

02. ~~Box model~~

03. ~~CSS selectors~~

04. CSS reset

05. Text styling

06. Boxes and classes exercise

CSS reset

- Often want to "reset" the default browser styling
- Not all browsers apply the same default rules
- Saves time overriding browser styling
- Eric Meyer's Reset (meyer-reset-css)
- Normalize Style Sheet is a more modern approach (normalize-css)
- The reset should always go first!

Text styling

- color
- font-family
- font-size
- font-style
- font-weight
- text-transform
- text-decoration
- text-align
- line-height

Text styling

- List styling
- Link styling
- Web fonts
  - @font-face
  - Font licensing
  - Use a webfont generator Or use Google Fonts

Exercise(20 mins)

Clone the menu exercise repository as a starting point - [Menu Exercise from LMS](#)

- Add div elements, classes, ids
- Add normalize reset css
- Create an external CSS file
- Style all the menu elements and the prices
- Change the fonts

There is more than one way to solve this!

For next class

Start building your personal website