

Web Engineering & Development (SWE 363)

## 3.1 Intro to CSS

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## Announcements

- Reminder of the projects submissions
- Github submission issues template

# In today's Lecture:

- Review project ideas
- Do previous lab
- Intro to CSS
- Basic Selectors

## Reference:

- Zybook: 3.1 to 3.3

<https://csszengarden.com/>

## CSS Rule

```
p { color: red };
```

# More rules

```
p {  
  color: crimson;  
  font-size: 16px;  
  line-height: 1.5;  
}  
h1 {  
  color: navy;  
  font-weight: 800;  
  text-transform: uppercase;  
  letter-spacing: 2px;  
}  
ul {  
  color: forestgreen;  
  font-weight: normal;  
  list-style-type: square;  
}
```

# Where to put it ?

```
<!-- inline -->  
<p style="color: red; font-size: 16px;">This is a paragraph</p>
```

```
<!-- internal -->  
<style>  
  p { color: red; font-size: 16px; }  
</style>
```

```
<!-- external -->  
<link rel="stylesheet" href="styles.css">
```

# Who wins?



who wins?

**The more specific wins**

## Board activity: What will the color of each sentence be?

```
<style>
```

```
p    { color:orange; }
```

```
span { color:green; }
```

```
</style>
```

```
<p>
```

```
Part of this sentence is orange,
```

```
<span>while the rest is green.</span>
```

```
</p>
```

```
<p>
```

```
Part of this sentence is orange,
```

```
<span style="color:blue">while the rest is blue.</span>
```

```
</p>
```

```
<p style="color:red">
```

```
This sentence is red.
```

```
</p>
```

## But !important overrides everything

```
<style>
p    { color:orange !important; }
span { color:green; }
</style>
<p style="color:red">
    This sentence was red. But orange overrides it.
</p>
```

# How can we select elements?

analyze the following code and tell what is the selection pattern

- tag: p, span, h1, div
- id: #main
- class: .highlight
- group: p, span, h1, div
- universal: \*

Board activity: Analyze the following code and tell what is the selection pattern

```
<style>
  #main { color: red; }
  .highlight { color: blue; }
  p { color: green; }
  span { color: yellow; }
  h1 { color: purple; }
  div { color: orange; }
  * { color: black; }
  p, span, h1, div { color: brown; }
</style>
```

```
<div>
<h1 id="main">This is a heading</h1>
<p>This is a paragraph</p>
<p class="highlight">This is a highlighted paragraph</p>
</div>
```

# A bit advanced selectors

decendant, pseudo-class

- decendant: `p span`
- pseudo-class: `:hover`

Board activity: Analyze the following code and tell what is the selection pattern

```
<style>
  p { color: blue; }
  p span { color: red; }
  button:hover { color: green; }
</style>
```

```
<p>
  Hello <span>there</span>
</p>
<button>Click me</button>
```

30m

# Let's practice CSS selectors

Starter code at: [demos/Chapter 1/1.3 css selectors/](#)



# Next Class

- Common properties
- Fonts
- Box Model
- Flexbox