



Topic 8: Cascading Style Sheets

Introduction

Lecture Contents

- Purpose of CSS
- Linking and Importing
- Syntax
- Selectors
- Importing Other Style Sheets

Purpose of CSS

- HTML: Content
- **CSS: Style** (formatting)
- JavaScript: functionality

Three ways to include CSS in HTML

- **Inline** – incorporated into the html tag

```
<h1 style="color: blue; background-color yellow;">
```

- **Internal** – a style tag within the head element of the html file

```
<style type="text/css">
  body {
    background-color: white;
  }
</style>
```

- **External** – reference to a separate file

```
<link rel="stylesheet" href="/styles.css">
```


Importing Style Sheets from Style Sheets

- Must be defined at the top of the stylesheet before style declarations and before any other @-rules except @charset and @layer
 - import from a file: `@import "path/to/stylesheet.css";`
 - import from a URL: `@import url("path/to/stylesheet.css");`

Annotating

- Comments are the same as multi-line JavaScript comments
 - `/* this is a CSS comment */`
- We can not use the JavaScript single-line comments
 - `// this is an error in CSS!`

Syntax

- Basic Syntax:

`selector { property: value; }`

- selector: which element to apply the style to (e.g.: `h1`)
- property: which aspect of style (e.g.: `background-color`)
- value: what to set the property to (e.g.: `blue`)
- declaration: a property: value pair.

Syntax

- Multiple selectors and declarations:

```
h1, h2, h3 {  
    color: red;  
    background-color: yellow;  
    text-align: center  
}
```

- Note the alignment and indentation
- Selectors separated by a comma
- Declarations separated by a semicolon

Selectors

- Described in a later lecture:
 - HTML **elements** are just their tag text: `body`, `h1`, `div`, etc.
 - **IDs** are preceded by a hash symbol: `#username`, `#login`, etc.
 - **Classes** are preceded by a period: `.sidebar`, `.highlight`, etc.
 - **Attributes** enclosed in square brackets: `[target="_blank"]`
 - **Pseudo-classes** are preceded by a colon: `button:hover`
 - **Pseudo-elements** are preceded by two colons: `h1::first-letter`
 - **Descendants** separated by a space: `nav a`
 - **Children**: `form > p`
 - **Adjacent siblings** (first `p` after `h1`): `h1 + p`
 - **General Siblings** (all `p` after `h1`): `h1 ~ p`



Topic 8: Cascading Style Sheets

Introduction