



# 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



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