# Web Technology 3

CSS

Adding CSS

External Style Sheets
Embedded Style Sheets
Imported Style Sheets
Inline Style Sheets

CSS and Page Layout Div and Span

Selectors

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- CSS (Cascading Style Sheet) is a style sheet language that specifies how to incorporate style information in a style sheet
- A style sheet is composed of a set of style rules written in a specified format
- The primary intention of CSS is to separate document presentation from document content written in markup language
- Separate style sheets are used for different presentations
- The same style sheet can also be applied on different documents
- CSS provides more style attributes for defining the look and feel of web pages than plain HTML

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# **Adding CSS**

- Four ways to specify style information in a document:
  - External
  - Embedded or Internal
  - Imported
  - Inline
- Each one has its own set of advantages and disadvantages

### External Style Sheets

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## **External Style Sheets**

- Here, style information is written in a separate file and is referenced from an HTML document
- This is useful when the same style is applied on different documents
- External style sheets are cached by most of the browsers
- External style sheets can be of three types:
  - persistent: it is one that is always applied
  - alternate: out of the set of alternate style sheets, one is selected by the user depending on their choice
  - preferred: it is applied when no style sheet is selected
- Several alternate style sheets may be grouped under a single title

## **External Style Sheets**

- Attribute rel specifies the type of style sheet used
  - its value is stylesheet for persistent and preferred style sheets
  - its value is alternate stylesheet for alternate style sheets
- Persistent style sheet is specified by the absence of title attribute, whereas preferred and alternate style sheets are specified by the presence of title attribute
- Any number of external style sheets can be specified for a document

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

```
k rel = "alternate stylesheet" type = "text/css" href = "mystyle.css" title = "large" />
```

```
rel = "stylesheet" type = "text/css" href = "mystyle.css" title = "large" />
```

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```
Embedded Style Sheets
```

 Style information is placed under the < style > tag in the head section of an HTML page

```
<style>
p {
  color: green;
}
</style>
```

## Imported Style Sheets

## **Imported Style Sheets**

 It allows importing a style sheet from another style sheet. It is used within the style tag in HTML document

```
<stvle>
@import url ("style.css");
</style>
```

- The style element may include other internal style rules, but the import statement must be the first rule within a style tag. Internal rules override the conflicting rules in the imported style sheets
- A < style > tag may contain more than one import statements

```
<style>
@import url ("style1.css");
@import url ("style2.css");
p {color: green:}
</style>
```

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## **Inline Style Sheets**

Style information is incorporated directly into the HTML tags

Hello World

# **Cascading Rule**

- More specific rules get preference over less specific rules
- For conflicting rules, latter rules get preference over the earlier rules



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....

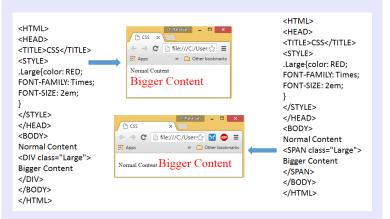
Selectors

## **CSS and Page Layout**

- A style rule has two parts: selector and declaration
- Selector specifies which HTML elements are affected by this style rule. The selector is a name of an HTML tag
- Declaration specifies what the effect will be. It is a semicolon-separated list of property: value pairs
- Selectors determine elements on which rules are to be applied
- Selectors having common declarations are grouped into a comma separated list
- CSS has a special selector \*, which matches with every single element in the document

## **Div and Span**

- Div divides the content into individual sections. Each section can have its own formatting
- Span is similar to Div. It can go into a finer level. There is no line feed after this



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# CSS and Page Layout Div and Span

#### Selectors

- Basic building blocks of style rules are selectors. These are the names given to styles in internal & external sheets
- Color: color: red; background-color: green;

```
<HTMI>
                                 <HTMI>
<HFAD>
                                 <HFAD>
<TITLE> CSS </TITLE>
                                 <TITLE> CSS </TITLE>
</HEAD>
                                 </HEAD>
<BODY>
                                 <BODY>
                                 <P STYLE="COLOR: RED; FONT-SIZE: 10;">
<FONT COLOR="RED" SIZE="10">
                                 Good Morning
Good Morning
                                 </P>
</FONT>
                                 </BODY>
</P>
                                 </HTML>
</BODY>
</HTML>
```

## **Id and Class**

**Class**: A class selector is a name preceded by a full stop (.) **Id**: An Id selector is a name preceded by a hash (#) An Id can be used to identify one element, whereas a class can be used to identify more than one

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## **Stylesheet**

## mystyle.css

.RED {COLOR: RED;}
.THICK {FONT-SIZE: 20;}
.GREEN {COLOR: GREEN;}

# **External Style Sheets Example**

```
<HTMI>
<HFAD>
<TITLE>CSS</TITLE>
<LINK REL="stylesheet" type="text/css" href="mystyle.css">
</HEAD>
<BODY>
                                                  Pi CSS x
<P CLASS="RED"> Red Content </P>
                                                ← → C hile:///C:/Usen: =
<P CLASS="THICK"> Thick Content </P>
                                                Apps
                                                            >> Other bookmarks
<P CLASS="GREEN"> Green Content </P>
                                                Red Content
<P CLASS="THICK RED"> Thick Red Content </P>
                                                Thick Content
</BODY>
</HTML>
                                                Green Content
                                                Thick Red Content
```

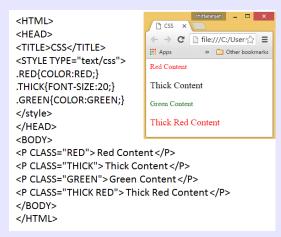
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## **Embedded Style Sheets Example**



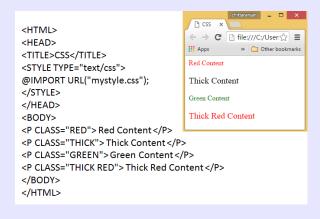
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# **Imported Style Sheets Example**



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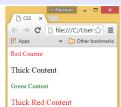
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# **Inline Style Sheets Example**

<HEAD> <TITLE>CSS</TITLE> </HEAD>

<BODY>

<HTMI>

<P STYLE="COLOR:RED"> Red Content </P>

<P STYLE="FONT-SIZE:20;"> Thick Content </P>

<P STYLE="COLOR:GREEN;"> Green Content </P>

<P STYLE="COLOR:RED: FONT-SIZE:20:">

Thick Red Content </P>

</BODY>

</HTML>

# Selectors... Selectors

# • Background:

background-color: RED; background-image: url(images/sun.jpg);

Text:

color: RED: font-family: arial;

font-size: 15px: font-size: 4em:

font-weight: bold:

font-style: italic;

text-decoration: underline:

text-transform: uppercase; letter-spacing: 0.5em;

word-spacing: 2em;

line-height: 1.5;

text-align: center;

margin: 20px;

padding: 40px;

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## **Selectors**

## List:

list-style-type: disc; list-style-type: decimal; list-style-image: url(images/smiley.gif);

## Border:

border-style: dashed; border-width: 3px; border-left-width: 10px; border-right-width: 10px; border-color: red;

margin: 50px 20px 20px 50px;

height: 200px; width: 200px;

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# **CSS Example**

## CSS Chittaranjan Pradhan

#### CSS

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# **CSS Example**

- <HTMI>
- <HEAD>
- <TITLE>CSS</TITLE>
- </HEAD>
- <BODY>
- Good Morning <BR>
- <P> Welcome Back </P>
- <H1> Have a Good Day </H1>
- <IMG SRC="camera.bmp" HEIGHT="200" WIDTH="150">
- </BODY>
- </HTML>



## **CSS Example**

```
sty.css
body{font-family: arial, helvetica;
font-size: 10px;
color: blue;
background-color: grey;
margin: 15px;
padding:0;
p{line-height: 20px;}
h1{color: red;
background-color: yellow;
font-size: 2em:
margin: 0;
font-style: italic;
text-align: center;
border-bottom-style: solid;
img{border-style: dashed;
border-width: 2px;
border-color: blue:
```

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# **CSS Example**

<HTML>

<HEAD>

<TITLE>CSS</TITLE>

<LINK REL="stylesheet" TYPE="text/css" HREF="sty.css"> </HEAD>

</HEAD

<BODY>

Good Morning <BR>

<P> Welcome Back </P>

<H1> Have a Good Day </H1>
<IMG SRC="camera.bmp" HEIGHT="200" WIDTH="150">

</BODY>

</HTML>