



Web Development

Technical Summer School 2018, IIT Bombay – Varun Patil

Part 2 – More on HTML, CSS and JavaScript

id and class attributes

```
<p id="first-paragraph" class="good-stuff"> This is first </p>
<p id="second-paragraph" class="good-stuff"> This is second </p>
<p id="strange-para"> This is third and is really weird </p>
<p class="good-stuff important"> This is last and important </p>
```

- **id** – Unique identity for an HTML element
- **class** – Group of elements that have something common
- Can have one or more classes, but **only one id**

The **style** attribute

```
<tag style="property:value;">
```

```
<p style="color:red;">This is a red paragraph.</p>
```

- Change how an element **looks**
- Predefined properties and their values
- For example,
 - `color:blue;`
 - `font-size:30pt;`
 - `text-align:center;`
- Can have multiple semi-colon separated pairs
 - `style="color:red; font-size:30pt"`

Common CSS Properties

- `color:green; background-color:#ff6600`
- `text-align:center`
- `height:100px; width:200px`
- `width:70%; max-width:400px`
- `text-decoration:underline` (or `overline`/`line-through`)
- `display:block` (or `inline-block`/`inline`/`none`)
- `font-size:15px; font-weight:bold`
- `margin:20px; margin-top:10px`
- `padding:10px; padding-right:6px`
- `border-style:solid; border-width:3px; border-color:red`
- `border-radius:5px`



color and background-color

- **color** - color of the text
- **background-color** - color of the box around the text
- Some colors pre-defined, for example, **red green black**
- More – **lightpink aqua teal fuchsia purple**
- Can use any arbitrary color - **#ff6347**
- Alpha - **background-color:rgba(255, 99, 71, 0.5);**
- Backgrounds can also be images
- Note – **color, not colour**



margin and padding

- **margin** – separation between objects
- **padding** – separation of content with border of the **same object**
- Can be specified in pixels, percentages, points etc.



font-size and font-family

- Change the font size
- Unit preferred is em – relative to current



Some more properties

- `width, height`
- `float`
- `border-style, border-width, border-color`
- `border-radius`
- `box-shadow`
- `text-align`
- And it goes on ...



Separating styles

- Too much style in HTML – looks ugly
- Hard to maintain
- Lots of repetition
- One change requires changing a lot



Separating styles

```
<head>
  <style>
    .big-text {
      font-size: 30px;
    }

    #main {
      color: red;
    }
  </style>
</head>

<body>
  <p id="main" class="big-text">This is one</p>
  <p>This is two</p>
  <p class="big-text">This is three</p>
</body>
```

Cascading Style Sheets

- Put all styles in a separate `mystyles.css`
- Link the file in `<head>`

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

index.html

```
.big-text {
  font-size: 30px;
}
```

mystyle.css

```
#main {
  color: red;
}
```



Thank You!