Divs, Classes & IDs

Web Development

Agenda

- Key concepts in page layout

  - class

  - id

  - div

class Attribute

- While the name of an element specifies its *type*, the class attribute lets you assign to it one or more *subtypes*.

- These subtypes may then be used in CSS code for styling purposes.

- In particular, several elements may share a class and only those elements can be identified for restyling

Using **class** to identify elements

```html
<body>
  <p>
    Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci
    nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.
  </p>
  <p class="withstyle">
    Fusce velit. Integer sapien enim, rhoncus vitae, cursus non,
    commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum
    hendrerit turpis.
  </p>
  <p class="warn">
    Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
    sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
    velit at orci.
  </p>
  <p>
    Lorem ipsum dolor sit amet, <span class="warn">consectetuer adipiscing elit</span>.
    Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis
    enim velit at orci.
  </p>
  <p class="warn">
    Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
    sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
    velit at orci.
  </p>
</body>
```

Classes in Action

```html
<!DOCTYPE html>
<html>
    <title> Sample for topic 03 </title>
    <link rel="stylesheet" href="style.css" type="text/css" />
    <body>
        <p>
            Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci
            nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.
        </p>
        <p class="withstyle">
            Fusce velit. Integer sapien enim, rhoncus vitae, cursus non,
            commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum
            hendrerit turpis.
        </p>
        <p class="warn">
            Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
            sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
            velit at orci.
        </p>
        <p>
            Lorem ipsum dolor sit amet,<span class="warn">consectetuer adipiscing elit</span>.
            Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis
            enim velit at orci.
        </p>
        <p class="warn">
            Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
            sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
            velit at orci.
        </p>
    </body>
</html>
```

style.css

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

Fusce velit. Integer sapien enim, rhoncus vitae, cursus non, commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum hendrerit turpis.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

```css
p  {
    background-color: white;
    color: black;
}

.withstyle  {
    background-color: olive;
    color: navy;
}

.warn  {
    background-color: yellow;
    color: red;
}
```
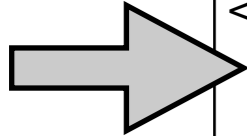
ID Attribute

- While the name of an element specifies its *type*, the id attribute lets you identify a specific element.

- Targeting elements by ID means you can devise rules that apply to a single element in a document

- IDs must be unique to a document - there cannot be two elements with the same IDs

Using **id** to identify elements

```
<body>
  <p id="first">
    Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci
    nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.
  </p>
  <p class="withstyle">
    Fusce velit. Integer sapien enim, rhoncus vitae, cursus non,
    commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum
    hendrerit turpis.
  </p>
  <p class="warn">
    Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
    sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
    velit at orci.
  </p>
  <p>
    Lorem ipsum dolor sit amet,<span class="warn">consectetuer adipiscing elit</span>.
    Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis
    enim velit at orci.
  </p>
  <p class="warn">
    Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
    sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
    velit at orci.
  </p>
</body>
```

Classes & IDs in Action

```html
<!DOCTYPE html>
<html>
    <title> Sample for topic 03 </title>
    <link rel="stylesheet" href="style.css" type="text/css" />
    <body>
        <p id="first">
            Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci
            nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.
        </p>
        <p class="withstyle">
            Fusce velit. Integer sapien enim, rhoncus vitae, cursus non,
            commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum
            hendrerit turpis.
        </p>
        <p class="warn">
            Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
            sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
            velit at orci.
        </p>
        <p>
            Lorem ipsum dolor sit amet,<span class="warn">consectetuer adipiscing elit</span>.
            Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis
            enim velit at orci.
        </p>
        <p class="warn">
            Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
            sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
            velit at orci.
        </p>
    </body>
</html>
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

Fusce velit. Integer sapien enim, rhoncus vitae, cursus non, commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum hendrerit turpis.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

```css
p  {
    background-color: white;
    color: black;
}

.withstyle  {
    background-color: olive;
    color: navy;
}

.warn  {
    background-color: yellow;
    color: red;
}

#first {
    background-color: green;
    color: red;
}
```
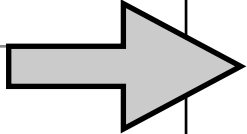
Using Divs to define Regions of a Page

- Use DIV elements as containers, one for the main content and one for the left content

- Allocate an ID to each of these divs

- Create CSS rules for each DIVs

```
<div id = maincontent>

 …



</div>
```

```
<div id = footer>

 …



</div>
```

```
#maincontent {
   …

}

#footer {
   …

}
```

37

```html
<!DOCTYPE html>
<html>
  <title> Sample for topic 03 </title>
  <link rel="stylesheet" href="style.css" type="text/css"/>
  <body>
    <div id="maincontent">
      <p id="first">
        Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci
        nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.
      </p>
      <p class="withstyle">
        Fusce velit. Integer sapien enim, rhoncus vitae, cursus non,
        commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum
        hendrerit turpis.
      </p>
      <p class="warn">
        Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
        sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
        velit at orci.
      </p>
      <p>
        Lorem ipsum dolor sit amet,<span class="warn">consectetuer adipiscing elit</span>.
        Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis
        enim velit at orci.
      </p>
    </div>
    <div id="footer">
      <p class="warn">
        Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
        sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
        velit at orci.
      </p>
    </div>
  </body>
</html>
```
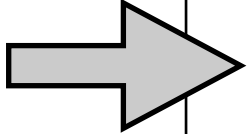
```html
<!DOCTYPE html>
<html>
  <title> Sample for topic 03 </title>
  <link rel="stylesheet" href="style.css" type="text/css"/>
  <body>
    <div id="maincontent">
      <p id="first">
        Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci
        nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.
      </p>
      <p class="withstyle">
        Fusce velit. Integer sapien enim, rhoncus vitae, cursus non,
        commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum
        hendrerit turpis.
      </p>
      <p class="warn">
        Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
        sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
        velit at orci.
      </p>
      <p>
        Lorem ipsum dolor sit amet,<span class="warn">consectetuer adipiscing elit</span>.
        Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis
        enim velit at orci.
      </p>
    </div>
    <div id="footer">
      <p class="warn">
        Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
        sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
        velit at orci.
      </p>
    </div>
  </body>
</html>
```

11

Classes, IDs & Divs in Action

```html
<!DOCTYPE html>
<html>
    <title> Sample for topic 03 </title>
    <link rel="stylesheet" href="style.css" type="text/css"/>
    <body>
        <div id="maincontent">
            <p id="first">
                Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci
                nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.
            </p>
            <p class="withstyle">
                Fusce velit. Integer sapien enim, rhoncus vitae, cursus non,
                commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum
                hendrerit turpis.
            </p>
            <p class="warn">
                Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
                sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
                velit at orci.
            </p>
            <p>
                Lorem ipsum dolor sit amet,<span class="warn">consectetuer adipiscing elit</span>.
                Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis
                enim velit at orci.
            </p>
        </div>
        <div id="footer">
            <p class="warn">
                Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras
                sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim
                velit at orci.
            </p>
        </div>
    </body>
</html>
```

```css
p  {
    background-color: white;
    color: black;
}


.withstyle  {
    background-color: olive;
    color: navy;
}


.warn  {
    background-color: yellow;
    color: red;
}


#first {
    background-color: green;
    color: red;
}


#maincontent {
    border-style: solid;
    border-width: 2px;
}


#footer {
    border-style: dashed;
    border-color: red;
    border-width: 2px;
}
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

Fusce velit. Integer sapien enim, rhoncus vitae, cursus non, commodo vitae, felis. Nulla convallis ante sit amet urna. Maecenas condimentum hendrerit turpis.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec acilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Cras sollicitudin, orci nec facilisis vehicula, neque urna porta risus, ut sagittis enim velit at orci.

12

Sectors

- Examples using classes & ids

CSS Selectors Summary (simple)

Selector	Applies to
p	All paragraphs in the document
.about	All elements in the document with a class value of about
#corporatehistory	The element in the document with an id value of corporate history (if present)
h1,h2,h3	All first-, second-, and third-level headings in the document
.privacy, .copyright	All elements with a class of privacy or copyright
#header,#footer	The element assigned an id of header, and the element assigned an id of footer
p.footnote	All paragraphs assigned a class of footnote

CSS Selectors Summary (advanced)

Selector	Applies to
#bodycopy.usergenerated	An element that has been assigned both an id of bodycopy and a class of usergenerated
.navigation a	All links with an ancestor parent assigned a class of navigation
#primarynavigation li.current	All list items with a class of current and an ancestor parent with an id of primarynavigation
.about #bodycopy	Any element on the site with an id of bodycopy and an ancestor parent assigned a class of about
body#personalproducts, body#proproducts, body#enterpriseproducts	The body elements within the site assigned the ids personalproducts, proproducts, and enterpriseproducts
body#personalproducts #bodycopy, body#proproducts #bodycopy, body#enterpriseproducts #bodycopy	The elements assigned an id of bodycopy, within the documents suggested by the previous example
ol li ol li ol li	A list item in the third level of a nested ordered list