

CSS cont.

October 5, Unit 4

Padding

- We can add borders around the elements of our pages
- To increase the space between the content and the border, use the *padding* property
- padding is shorthand for all of the padding properties:
 - padding-left
 - padding-right
 - padding-top
 - padding-bottom

Padding, cont.

- You can specify all 4 of the padding properties in one go
 - padding: 2cm 3cm 4cm 1cm;
 - (top, right, bottom, left)
- More complicated specifications are also possible
 - padding: 2cm 4cm 3cm;
 - Top has padding of 2cm, right and left of 4cm, and bottom of 3cm
- If you want equal padding for all 4 sides, simply specify a single number:
 - padding: 3cm;

Classes

- Let's say that you need two types of paragraphs for your page
 - Perhaps main text and some sort of commentary or side notes
 - The commentary could be smaller, in a different font, or a different color
- But, since both the main text and the commentary are paragraphs, they'd both need to use the "p" selector
- We can use *classes* to differentiate between the two types of paragraphs

Classes, cont.

- With style sheets we can specify different *classes* for the same tag
- Classes are defined using the *class* attribute
 - Can be applied to any tag
- Can create any number of classes for a tag
- Saves us from having to write inline style information repeatedly

CSS Rules with Classes

- The selector for tags with classes has the form:
 - tag.class
- Example of a paragraph selector with a class:

```
p.sidenote {  
    font-size: smaller;  
    color: #FF33FF;  
}
```

Using the Class Attribute

- So now we've defined a special class of paragraphs
 - The class is sidenote
- In the HTML, we can specify a paragraph with this class using the *class attribute*
- Ex:

```
<p class = "sidenote"> This is a sidenote...</p>
```

Selectors and Class Selectors

- Even if we have a special class of a tag, such as the **p.sidenote**, we can still specify css rules for the **p selector**
- Style information specified by the p selector will also apply to the sidenote class
- If the same property is defined both in the p, and the p.sidenote selectors with different values, the p.sidenote value will take precedence

Example with Multiple p Selectors

```
p {  
  color: orange;  
  font-family: serif;  
}
```

```
p.sidenote {  
  color: red;  
  font-size: smaller;  
}
```

```
<p class = "sidenote">  
  Here is some  
  sidenote text </p>
```

Would display
something like:

Here is some sidenote text

Example with Classes

- In class example

IDs

- *IDs* are like classes in that they allow a developer to specify a different category for the same tag
- Identifiers must be unique
 - They can be used once, and only once, on each page
- Can think of it like naming an element
- Instead of using the class selector, we'll use an *ID selector*
- To apply it to a tag, we'll use the *id* attribute

CSS Rules with Identifiers

- An id selector has the form:

`selector#identifier`

- Example with an ordered list:

```
ol#contents {  
    font-family: sans-serif;  
    list-style-type: upper-roman;  
}
```

Using the id Attribute

- Now we have a specific identifier for an ordered list
 - Like a table of contents
- To use the CSS rule we created use the id attribute

```
<ol id = "contents">  
  <li>Introduction</li>  
  <li>Middle</li>  
  <li>Conclusion</li>  
</ol>
```

IDs as Anchors or Fragments

- Since IDs can only be used once per page, we can use them as *anchors* or *fragments*
- Fragments specify a specific location on the page
- Can be used to “jump” readers right to that section of the page
- Becomes part of a URL

Using Fragments

- Using the silly ordered list example, imagine that the introduction, middle, and conclusion are all on the same page
- Each is given an ID
- Instead of scrolling, we can turn those list items into links to jump to the right part of the page
- General form of the URL `page.html#id`
- Perhaps we'd have a link like:

```
<li><a href="mypage.html#conclusion">Conclusion</a></li>
```

Choosing Classes vs. IDs

- If the element appears (or could appear) more than once on a page
 - Use a class
- If the element will only appear once
 - Could use either
- If you want to use a fragment to jump to that part of your page
 - Use an identifier
- If you want to modify the element with JavaScript
 - Use an identifier
- Can use both a class and an identifier in the same tag
 - Perhaps simply using the identifier as a fragment

Using IDs Regularly

- If your page requires vertical scrolling, it's a good idea to use id names
 - Allows users to link to relevant parts of your page
- Document with many headings
 - May be a good idea to use id names for your headings
 - Helps users linking to relevant parts
 - May allow you to use fragments in the future'
 - Coursepack suggests giving unique id names to your h2 tags

ID Example

- In Class Example

Specifying Color

- We already know how to specify color as a 6 digit hexadecimal number
 - #FF0000 : red
 - #FFFFFF : white
 - #2AF3C4 : some bright blue-green color
- And how to specify a color by its name
 - red, white, black, etc.
- With style sheets, though, we can specify colors in a number of other ways as well

Shorthand Hex

- For web-safe colors they all use duplicate digits for each component
 - ex. #FF0000, #33CCDD, #6699AA
- With style sheets we can shorten the hex color to 3 digits by reducing each component to a single digit:
 - ex. #F00, #3CD, #69A
- We can specify non-web-safe colors as well
 - #700 = #770000
 - #3C2 = #33CC22

Specifying Colors Using RGB

- So far you've had to convert from rgb to hex to use colors with html
- CSS allows you to specify colors using their rgb values
- When specifying rgb we use the value rgb (rValue, gValue, bValue)
- ex. `background-color: rgb(120,19,245);`

Transparent

- One of the reasons we want to use style sheets is to make it easier to change our websites
- Let's say that all of our paragraphs use a white background and the background color on the site is blue
- But, we want to create a special class of paragraphs without the white background
- Can use the *transparent* value

```
p.plainParagraph {  
    background-color: transparent;  
}
```

Setting Colors

- If you specify any colors in your site, specify them all
- You should specify:
 - background-color (obvious, I hope)
 - color (font color)
 - a:link (link)
 - a:visited (visited link)
 - a:active (active link)
- Why?
 - If you only specify some, a user's default browser settings could render your site unreadable

Hyperlink Colors

- It is quite easy to change the colors of your hyperlinks
- Often the blue/purple default clashes with your color scheme
- Or if using a blue background, become unreadable
- It's okay to change your link colors provided they still look like links

Changing Link Colors

- `a:link` – color of the link
- `a:visited` – color of visited link
- `a:hover` – mouseover color
- `a:active` – color of the active link

- Should specify these in this order if using *hover*
- *hover* must come after *visited* and *link*
- *active* must come after *hover*

Example with Changing Link Colors

```
body {  
    color: #999999;  
    background-color: white;  
}  
a:link { color: #FF33CC}  
a:visited {color: rgb(120,20, 0)};  
a: hover {color: red};  
a:active {color: #A31200};
```

In Class Example

- Changing all colors