

CSS

All classes

CSS

- CSS = Cascading Style Sheets
- format HTML elements (tags)
 - size, color, position, attributes, ...
- one place to store all configurations
 - like in work “styles”
- set of rules
 - selector selector{
 - attributes attribute: value;
 - values }

Syntax

```
/*comment*/  
/*even  
  more  
  comments  
*/  
selector{  
  attribute: value;  
}
```

```
/*comment*/  
/*even  
  more  
  comments  
*/  
body{  
  color: red;  
}
```

CSS + HTML?

- referencing a CSS file in HTML

```
<html>
  <head>
    ...
    <link href="css/style.css" type="text/css" rel="stylesheet">
    ...
  </head>
  <body>

    </body>
</html>
```

Classes + IDs

```
/*class selector*/  
.classname{  
  font-size: 15;  
}
```

```
/*id selector*/  
#idname{  
  color: red;  
}
```

Basic Selectors

type	description	example
universal selector	- for each html element	<pre>/*universal selectors* div{ color: #000; }</pre>
class selector	<ul style="list-style-type: none">- a custom class name can be associated- can be used as much as needed	<pre>/*class selectors* .heading-one{ color: #ff0000; }</pre>
universal + class selectors	- apply a class only for special type of html element (universal selector)	<pre>/*universal + class selectors* div.heading{ color: #ff0000; }</pre>
id selector	<ul style="list-style-type: none">- a custom id name can be associated- only once allowed once per page	<pre>/*id selectors* #navigation{ color: #ff0000; }</pre>

Combining Selectors

- apply a configuration for different selectors
 - separated with a comma (“,”)

```
/*combining universal selectors*/
div, h1, h2{
    font-family:Verdana;
}

/*combining class selectors*/
.first, .third{
    color:#c0c0c0;
}
.second, .fourth{
    color:#ff0000;
}
```

```
/*combining universal + class
selectors*/
div .first, p .second{
    font-family:Verdana;
}
```

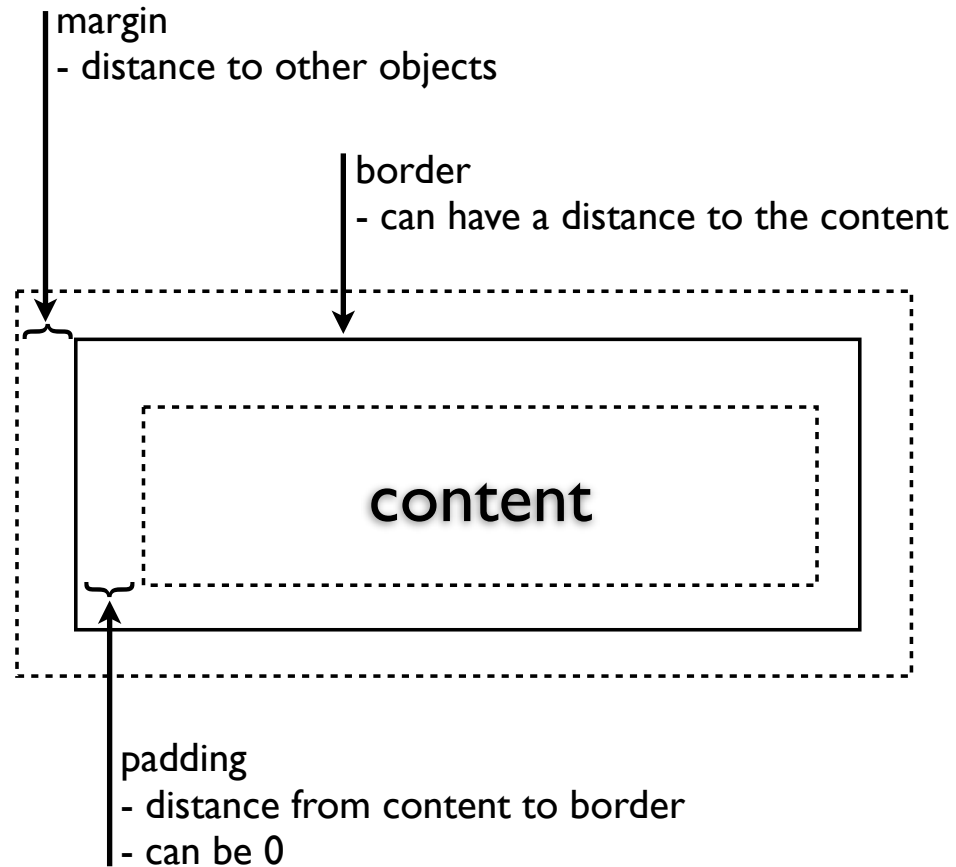
Pseudo Classes

- specify the state or relation to a selector
 - mostly needed for links
- important
 - link when the link was not been clicked
 - visited when the link has been clicked
 - active when the link is clicked
 - hover when the mouse is over the link

```
/*universal selectors  
with pseudo classes*/  
a:link{  
    color: #000000;  
}  
a:visited{  
    color: #ff0000;  
}
```

```
/*universal selectors  
with pseudo classes*/  
a:hover{  
    color: #c0c0c0;  
}  
a:active{  
    color: green;  
}
```


Box Model



Box Model

- class: box
 - box, 200px * 50px, border 1px solid
- class: box2
 - padding: 10 px, box, 200px * 50px, border 1px solid
- class: box3
 - margin: 10 px, box, 200px * 50px, border 1px solid
- what do you see?

Margin

- distance from border to outer elements

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <title>css_03</title>

  <link href="css/css_03.css" rel="stylesheet" type="text/css">
</head>
<body>
  <header id="header">Text</header>
  <div id="content">
    <div id="block1">Text 1</div>
    <div id="block2">Text 2</div>
    <div id="block3">Text 3</div>
    <div id="block4">Text 4</div>
  </div>
  <footer id="footer"></footer>
</body>
</html>
```

+

```
#header{
  background: #CCC;
}

#content{
  background: #CCC;
  color: #FFF;
}

#block1{
  background: #111;
}

#block2{
  background: #222;
}

#block3{
  background: #333;
}

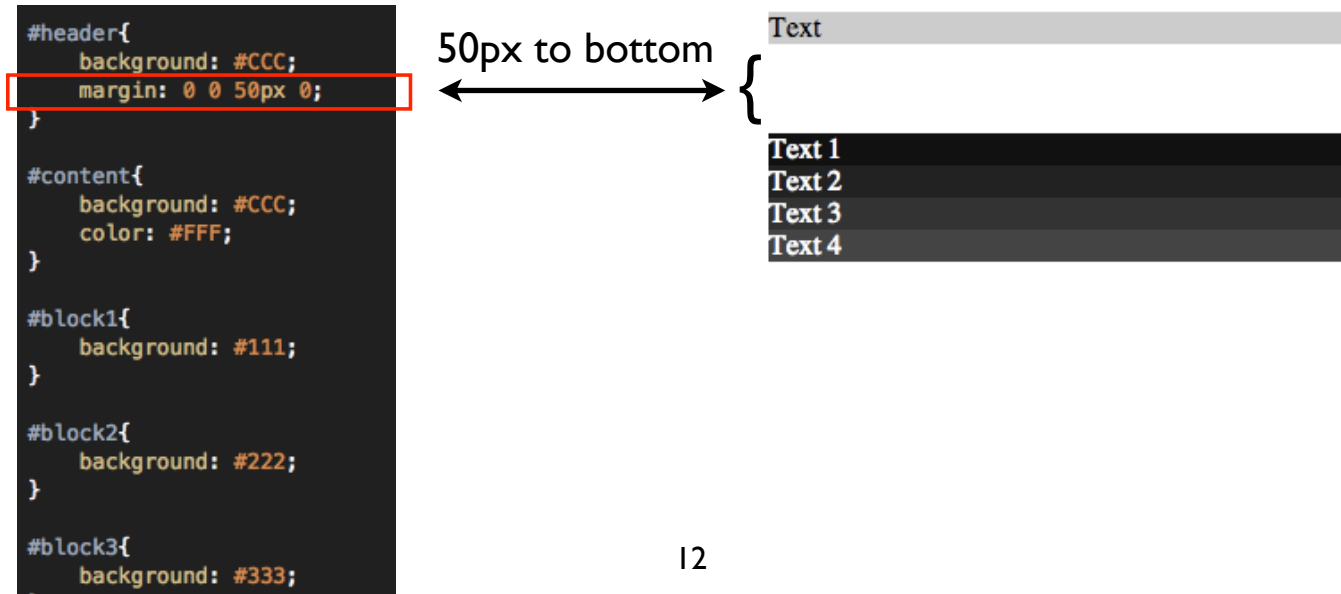
#block4{
  background: #444;
}
```

=

Text
Text 1
Text 2
Text 3
Text 4

Margin

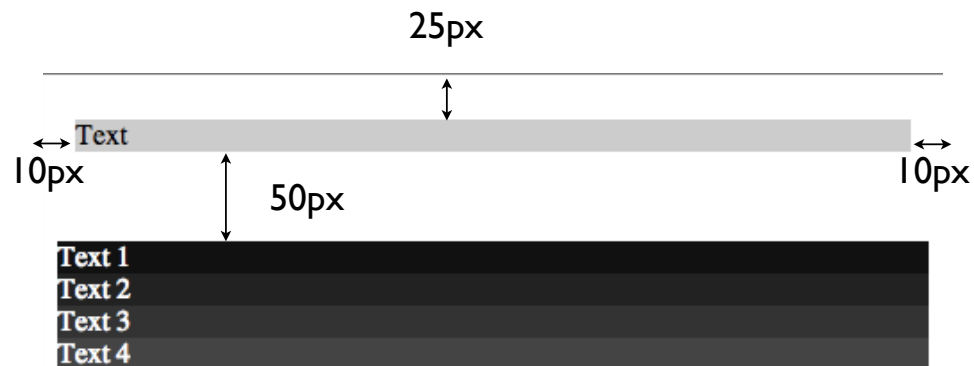
- increase the distance between the header and the content
 - increase the margin to the bottom
 - `margin: 0 0 50px 0;`
 - top left bottom right
- compare: what happens when use padding?



Margin

- increase the distance to top, left and right
 - margin: 25px, 10px, 50px, 10px
 - compare it with **padding**?

```
#header{  
  background: #CCC;  
  margin: 25px 10px 50px 10px;  
}  
  
#content{  
  background: #CCC;  
  color: #FFF;  
}  
  
#block1{  
  background: #111;  
}  
  
#block2{  
  background: #222;  
}  
  
#block3{  
  background: #333;  
}  
  
#block4{  
  background: #444;  
}
```



Margin

- #block1: distance to left element
 - left element: #content
 - **margin: 50px 0 0 0;** or **margin-left: 50px;**

```
#header{
  background: #CCC;
  margin: 25px 10px 50px 10px;
}

#content{
  background: #CCC;
  color: #FFF;
}

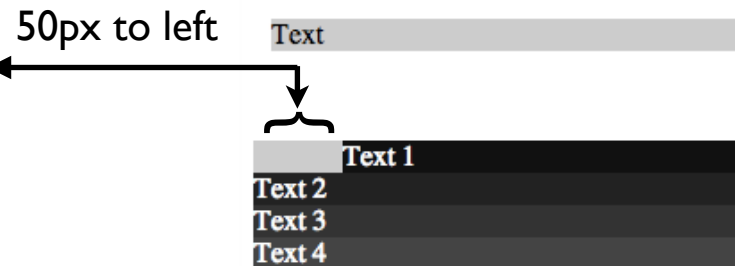
#block1{
  background: #111;
  margin-left: 50px;
}

#block2{
  background: #222;
}

#block3{
  background: #333;
}

#block4{
  background: #444;
}
```

- why grey background?
- compare with padding?



Margin

- #block2: distance to bottom element
 - bottom element: #block3
 - margin-bottom: 10px;
 - compare with **padding**?

```
#header{  
  background: #CCC;  
  margin: 25px 10px 50px 10px;  
}  
  
#content{  
  background: #CCC;  
  color: #FFF;  
}  
  
#block1{  
  background: #111;  
  margin-left: 50px;  
}  
  
#block2{  
  background: #222;  
  margin-bottom: 10px;  
}  
  
#block3{  
  background: #333;  
}
```

