# More CSS <link href="filename"</pre>

type="text/css" rel="stylesheet"/>

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### HTML id attribute

Coding Horror! Coding Horror! Our mission is to combine programming and <q>human</q> factors with geekiness!

Coding Horror! Coding Horror!

Our mission is to combine programming and "human" factors with geekiness! output

- ☐ A unique ID for an element on a page
- □ Each ID must be unique; can only be used once in the page



### Linking to sections of a web page

Visit <a href= "http://www.textpad.com/download/index.html#downloads"> textpad.com</a> to get the TextPad editor. <a href="#mission">View our Mission Statement</a>

Visit textpad.com to get the TextPad editor.

View our Mission Statement

output

- Link target can include an ID at the end, preceded by a #
- Browser will load that page and scroll to element with given ID

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### Interjection: Coding Horror



Google" Custom Search



code review process in GitHub using Collaborator.



your mobile/web apps with CSC443: Web Programming Can Software Make You Less Racist?

I don't think we computer geeks appreciate how profoundly the rise of the smartphone, and Facebook, has changed the Internet audience. It's something that really only happened in the last five years, as smartphones and data plans dropped radically in price and became accessible – and addictive – to huge segments of the population.

People may have regularly used computers in 2007, sure, but that is a very different thing than having your computer in your pocket, 24/7, with you every step of every day, fully integrated into your life. As Jerry Seinfeld noted in 2014:



### CSS ID selectors

#mission {
font-style: italic;
font-family: "Garamond", "Century Gothic", serif;
}

Coding Horror! Coding Horror!

Our mission is to combine programming and "human" factors with geekiness!

Applies style only to the paragraph that has the ID of mission

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### **CSS ID selectors**

Coding Horror! Coding Horror!

See our special deal on Droids!

Today only!

?

Coding Horror! Coding Horror!

See our special deal on Droids!

Today only!

output

### **CSS ID selectors**

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Coding Horror! Coding Horror!
Our mission is to combine programming and <q>human</q> factors with geekiness!
HTML

Coding Horror! Coding Horror!

Our mission is to combine programming and "human" factors with geekiness!

Applies style only to the paragraph that has the ID of mission

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### HTML class attribute

Coding Horror! Coding Horror!

See our special deal on Droids!

Today only!

НТМІ

Coding Horror! Coding Horror!

See our special deal on Droids!

Today only!

output

- □ A way to group some elements and give a style to only that group
- $\hfill\Box$  Unlike an id, a class can be reused as much as you like on the page
  - "I don't want ALL paragraphs to be yellow, just these three..."



### CSS class selectors

```
.special {
background-color: yellow;
font-weight: bold;
}
p.shout {
color: red;
font-family: cursive;
}

Coding Horror! Coding Horror!

See our special deal on Droids!

Today only!

output
```

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### **CSS ID selectors**

```
a:link { color: #FF0000; } /* unvisited link */
a:visited { color: #00FF00; } /* visited link */
a:hover { color: #FF00FF; } /* mouse over link */

CSS
```

Buy Early Buy Often!

output

### CSS class selectors

10

```
Coding Horror! Coding Horror!
See our special deal on Droids!
Today only!
```

Coding Horror! Coding Horror!

See our special deal on Droids!

Today only!

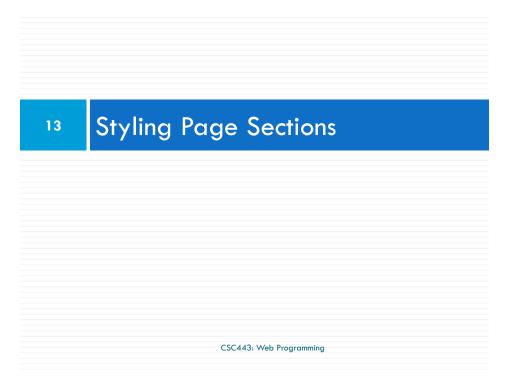
output

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### **CSS ID selectors**

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class	description	Example
:active	an activated or selected element	a:active { background-color: yellow;}
:focus	an element that has the keyboard focus	<pre>input[type=text]:focus { width: 250px;} Search: <input name="search" type="text"/></pre>
:hover	an element that has the mouse over it	a:hover { color: Red; }
:link	a link that has not been visited	a:link { color: green; }
:visited	a link that has already been visited	a:visited { color: blue;}
:first-letter	the first letter of text inside an element	p:first-letter { color: green;}
:first-line	the first line of text inside an element	p:first-line {background-color: yellow;}
:first-child	an element that is the first one to appear inside another	p:first-child i { background: yellow;}



## Sections of a page <div>

## Why do we need page sections?

14

- Style individual elements, groups of elements, sections of text or of the page
- □ Create complex page layouts



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### Inline Sections <span>

```
<h2>Coding Horror! Coding Horror!</h2>
See our <span class="special">spectacular</span> deal
on Droids!
We'll beat <span class="shout"> any advertised
price</span>!
HTML

Coding Horror! Coding Horror!

See our spectacular deal on Droids!

We'll beat any advertised price!

output
```

 has no onscreen appearance, but you can apply a style or ID to it, which will be applied to the text inside the span

### CSS context selectors

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```
selector1 selector2 {
properties
}
```

 applies the given properties to selector 2 only if it is inside a selector 1 on the page

```
selector1 > selector2 {
properties
}
```

applies the given properties to selector 2 only if it is directly inside a selector 1 on the page

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### More complex example

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### Context selector example

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```
Eat at <strong>Greasy's Burger</strong>...

The <strong>greasiest</strong> burgers in town!
Yummy and greasy at the same time!

HTML
```

Eat at Greasy's Burger...

- The **greasiest** burgers in town!
- Yummy and greasy at the same time!

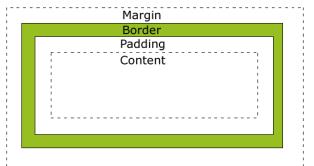
output

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### The CSS Box Model

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- Every element composed of:
  - □ Content The content of the box, where text and images appear
  - Padding Clears an area around the content. The padding is transparent
  - Border A border that goes around the padding and content
  - Margin Clears an area outside the border. The margin is transparent

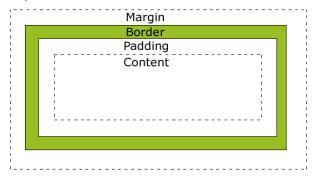


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### The CSS Box Model (cont.)

### 21

- □ The total width of an element should be calculated like this:
  - Total element width = width + left padding + right padding + left border + right border + left margin + right margin
- The total height of an element should be calculated like this:
  - Total element height = height + top padding + bottom padding + top border + bottom border
     + top margin + bottom margin



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## The CSS Box Model (cont.)

23

laborum.</div>

```
Demonstrating the Box Model
<style>
     background-color: lightgrey;
width: 300px;
                                                                                                     The CSS box model is essentially a box that wraps around every HTML element. It consists
                                                                                                     of: borders, padding, margins, and the actual content.
     border: 25px solid green;
     padding: 25px;
margin: 25px;
}
</style>
                                                                                                                 This text is the actual content of the box. We
                                                                                                                have added a 25px padding, 25px margin and
a 25px green border. Ut enim ad minim
<body>
                                                                                                                 veniam, quis nostrud exercitation ullamco
<h2>Demonstrating the Box Model</h2>
                                                                                                                 laboris nisi ut aliquip ex ea commodo
The CSS box model is essentially a box that wraps around every HTML element. It consists of: borders, padding, margins, and the actual
                                                                                                                consequat. Duis aute irure dolor in
                                                                                                                 reprehenderit in voluptate velit esse cillum
                                                                                                                 dolore eu fugiat nulla pariatur. Excepteur sint
                                                                                                                occaecat cupidatat non proident, sunt in culpa
                                                                                                                 qui officia deserunt mollit anim id est
<div>This text is the actual content of the box. We have added a 25px
padding, 25px margin and a 25px green border. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat
non proident, sunt in culpa qui officia deserunt mollit anim id est
```

### The CSS Box Model (cont.)

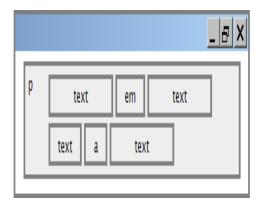
```
<style>
div {
    background-color: lightgrey;
    width: 300px;
    border: 25px solid green;
    padding: 25px;
    margin: 25px;
}
</style>

Example
```

### Document Flow - block elements

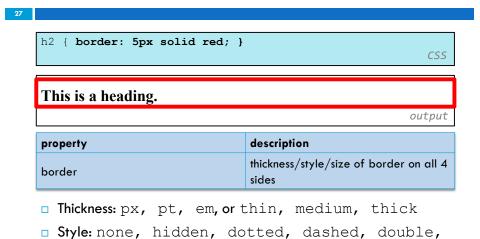
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### Document flow - inline elements



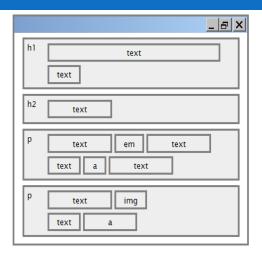
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## CSS properties for borders



groove, inset, outset, ridge, solid color

Document flow - a larger example



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## More border properties

Property	Description	
border-color, border-width,	specific properties of border on all 4	
border-style	sides	
border-bottom, border-left,	all properties of border on a particular	
border-right, border-top	side	
border-bottom-color, border-bottom-		
style,		
border-bottom-width, border-left-color,		
border-left-style, border-left-width,	properties of border on a particular side	
border-right-color, border-right-style,		
border-right-width, border-top-color,		
border-top-style, border-top-width		
Complete list of border properties		
http://www.w3schools.com/css/css_reference.asp#border		

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## Another border example

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```
h2 {
border-left: thick dotted #CC0088;
border-bottom-color: rgb(0, 128, 128);
border-bottom-style: double;
}

CSS
```

This is a heading.

output

- each side's border properties can be set individually
- □ if you omit some properties, they receive default

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## Padding example 1

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```
p { padding: 20px; border: 3px solid black; }
h2 { padding: 0px; background-color: yellow; }

CSS

This is a first paragraph.

This is a second paragraph.
```

This is a heading

output

## CSS properties for padding

30

property	description	
padding	padding on all 4 sides	
padding-bottom	padding on bottom side only	
padding-left	padding on left side only	
padding-right	padding on right side only	
padding-top	padding on top side only	
Complete list of padding properties		
http://www.w3schools.com/css/css reference.asp#padding		

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## Padding example 2

32

```
p {
padding-left: 200px; padding-top: 30px;
background-color: fuchsia;
}
```

This is a first paragraph

This is a second paragraph

output

- each side's padding can be set individually
- notice that padding shares the background color of the element

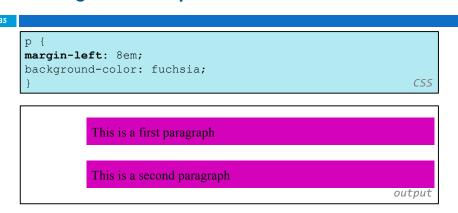
## CSS properties for margins

33

property	description	
margin	margin on all 4 sides	
margin-bottom	margin on bottom side only	
margin-left	margin on left side only	
margin-right	margin on right side only	
margin-top	margin on top side only	
Complete list of margin properties		
http://www.w3schools.com/css/css_reference.asp#margin		

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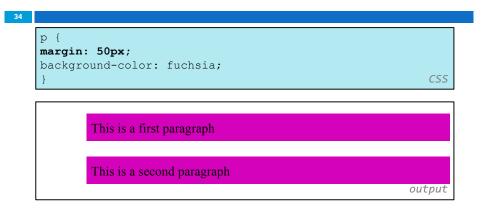
## Margin example 2



each side's margin can be set individually

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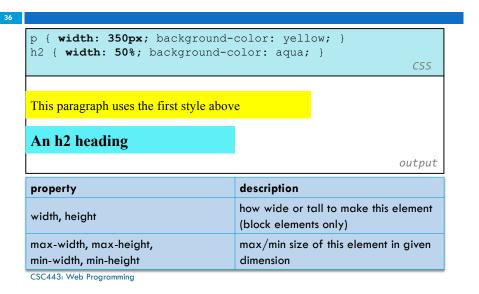
### Margin example 1



notice that margins are always transparent

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## CSS properties for dimensions



## Centering a block element: auto margins

37

```
p {
margin-left: auto;
margin-right: auto;
width: 750px;
}
```

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

output

- works best if width is set (otherwise, may occupy entire width of page)
- □ to center inline elements within a block element, use textalign: center;

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## Example: Drop-Down Menu

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□ How can we do the menus below?

