

More CSS

```
<link href="filename"  
type="text/css" rel="stylesheet"  
>
```

HTML id attribute

2

```
<p>Coding Horror! Coding Horror!</p>  
<p id="mission">Our mission is to combine programming and  
<q>human</q> factors with geekiness!</p>
```

HTML

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

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

HTML

Visit [textpad.com](http://www.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

CSS ID selectors

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

CSS

Coding Horror! Coding Horror!

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

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

HTML class attribute

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```
<p class="shout">Coding Horror! Coding Horror!</p>  
<p class="special">See our special deal on Droids!</p>  
  
<p class="special">Today only!</p>
```

HTML

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
- Unlike an id, a class can be reused as much as you like on the page



CSS class selectors

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

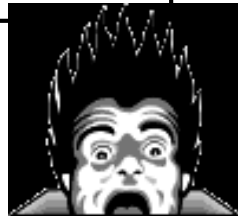
CSS

Coding Horror! Coding Horror!

See our special deal on Droids!

Today only!

output



CSS class selectors

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```
<p class="shout">Coding Horror! Coding Horror!</p>  
<p class="special">See our special deal on Droids!</p>  
  
<p class="special shout">Today only!</p>
```

HTML

Coding Horror! Coding Horror!

See our special deal on Droids!

Today only!

output



CSS ID selectors

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```
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

http://www.w3schools.com/css/css_link.asp

CSS ID selectors

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class	description
:active	an activated or selected element
:focus	an element that has the keyboard focus
:hover	an element that has the mouse over it
:link	a link that has not been visited
:visited	a link that has already been visited
:first-letter	the first letter of text inside an element
:first-line	the first line of text inside an element
:first-child	an element that is the first one to appear inside another

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Styling Page Sections

Why do we need page sections?

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

The screenshot displays a web page layout for a template named 'Scribbled'. The page features a dark green navigation bar at the top with links for 'Homepage', 'Blog', 'Photos', 'About', 'Links', and 'Contact'. Below the navigation bar, the main content area has a light beige background. On the left side of the main content, there is a large red heading 'Welcome to Scribbled' followed by a line of text: 'Posted by Someone on June 10, 2011 • Comments (64) • Full article'. Below this text is a small square image of a purple flower. To the right of the image, there is a block of text describing the template: 'This is **Scribbled**, a free, fully standards-compliant CSS template designed by FreeCssTemplates for Free CSS Templates. The picture in this template is from PDPhoto.org. This free template is released under a Creative Commons Attributions 2.5 license, so you're pretty much free to do whatever you want with it (even use it commercially) provided you keep the links in the footer intact. Aside from that, have fun with it :)'. Below this text is another paragraph of placeholder text: 'Sed lacus. Donec lectus. Nullam pretium nibh ut turpis. Nam bibendum. In nulla tortor, elementum ipsum. Proin imperdiet est. Phasellus dapibus semper urna. Pellentesque ornare, orci in felis. Donec ut ante. In id eros. Suspendisse lacus turpis at sem.' On the right side of the page, there is a vertical sidebar with a dark green background. It contains a 'Search' section with a text input field labeled 'enter keywords here...'. Below the search section is a 'Categories' section with the text 'Aliquam libero'.

Homepage Blog Photos About Links Contact

Welcome to Scribbled

Posted by *Someone* on June 10, 2011 • Comments (64) • Full article



This is **Scribbled**, a free, fully standards-compliant CSS template designed by FreeCssTemplates for Free CSS Templates. The picture in this template is from PDPhoto.org. This free template is released under a Creative Commons Attributions 2.5 license, so you're pretty much free to do whatever you want with it (even use it commercially) provided you keep the links in the footer intact. Aside from that, have fun with it :)

Sed lacus. Donec lectus. Nullam pretium nibh ut turpis. Nam bibendum. In nulla tortor, elementum ipsum. Proin imperdiet est. Phasellus dapibus semper urna. Pellentesque ornare, orci in felis. Donec ut ante. In id eros. Suspendisse lacus turpis at sem.

Search

Aliquam tempus

Mauris vitae nisl nec metus placerat perdiet est. Phasellus dapibus semper consetetuer hendrerit.

Categories

Aliquam libero

Sections of a page <div>

12

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

HTML

Coding Horror! Coding Horror!

See our special deal on Droids!

We'll beat any advertised price!

output

- Tag used to indicate a logical section or area of a page
- Has no appearance by default, but you can apply styles to it



Page layouts and float

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- http://www.w3schools.com/css/css_float.asp

Inline Sections

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

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  
}
```

CSS

- applies the given properties to selector2 only if it is inside a selector1 on the page

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

CSS

- applies the given properties to selector2 only if it is *directly* inside a selector1 on the page

Context selector example

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```
<p>Eat at <strong>Greasy's Burger</strong>...</p>
<ul>
<li>The <strong>greasiest</strong> burgers in town!</li>
<li>Yummy and greasy at the same time!</li>
</ul>
```

HTML

```
li strong { text-decoration: underline; }
```

CSS

Eat at **Greasy's Burger...**

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

output



More complex example

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```
<div id="ad">
<p>Eat at <strong>Greasy's Burger</strong>...</p>
<ul>
<li class="important">The <strong>greasiest</strong>
burgers in town!</li>
<li>Yummy and <strong>greasy at the same time
</strong>!</li>
</ul>
</div>
```

HTML

```
#ad li.important strong { text-decoration: underline; }
```

CSS

Eat at **Greasy's Burger...**

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

output

The CSS Box Model

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□ Every element composed of:

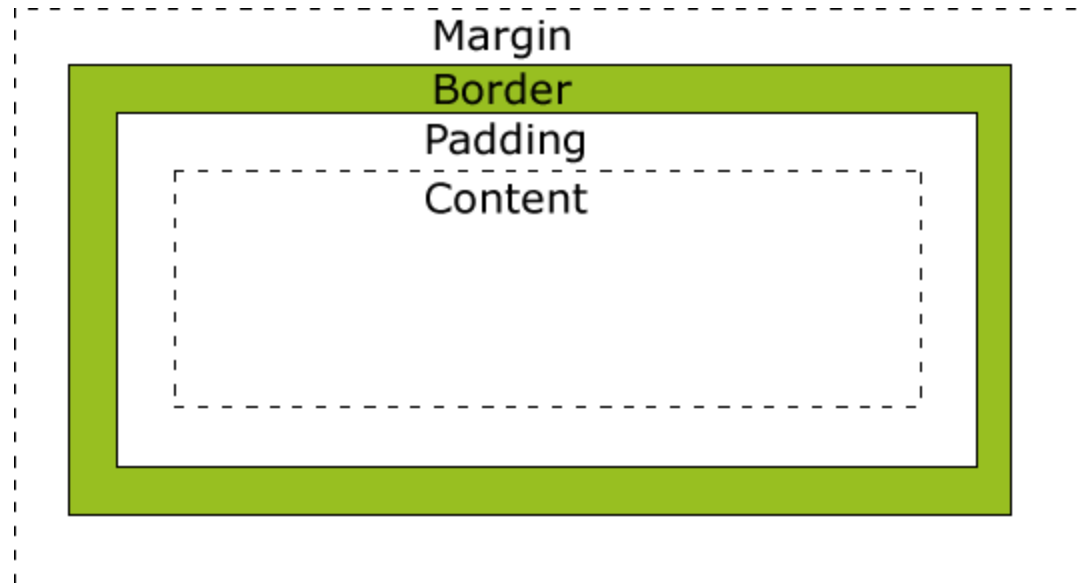
- content
- a border around the element
- padding between the content and the border
- a margin between the border and other content



The CSS Box Model (cont.)

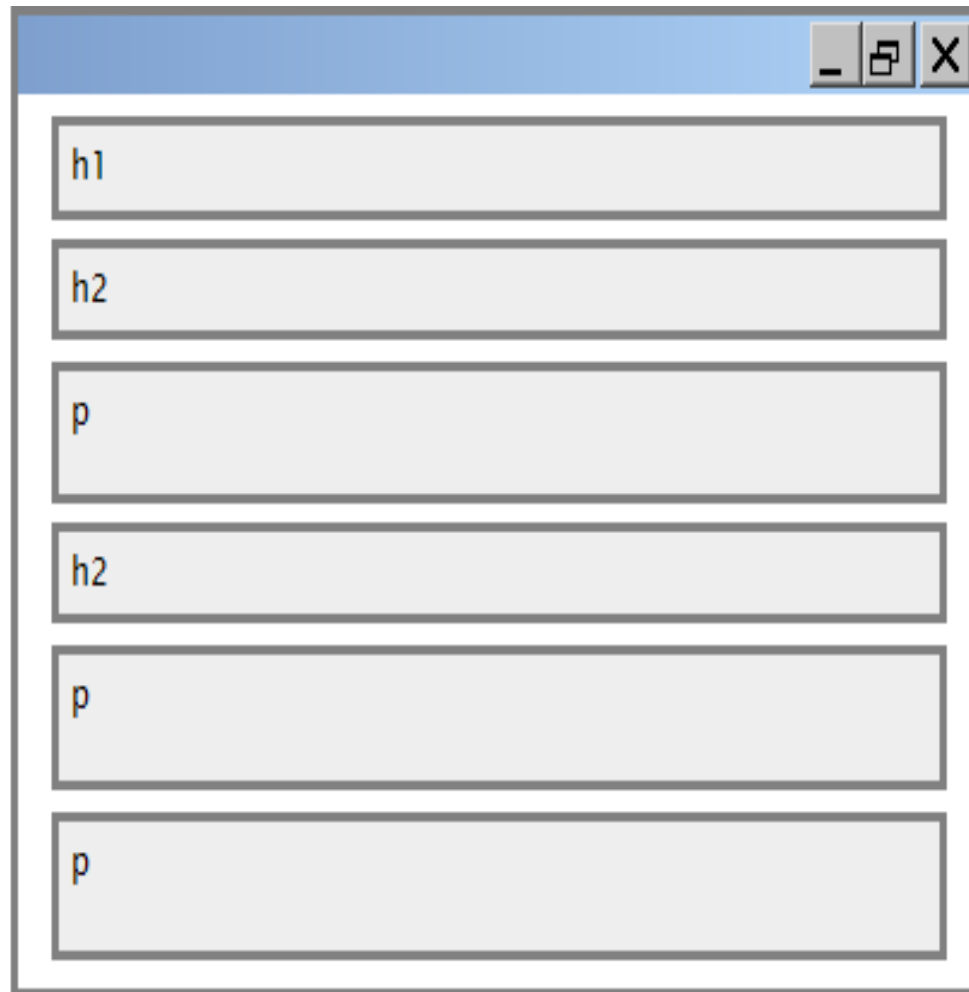
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- $\text{width} = \text{content width} + \text{L/R padding} + \text{L/R border} + \text{L/R margin}$
- $\text{height} = \text{content height} + \text{T/B padding} + \text{T/B border} + \text{T/B margin}$
- IE6 doesn't do this right



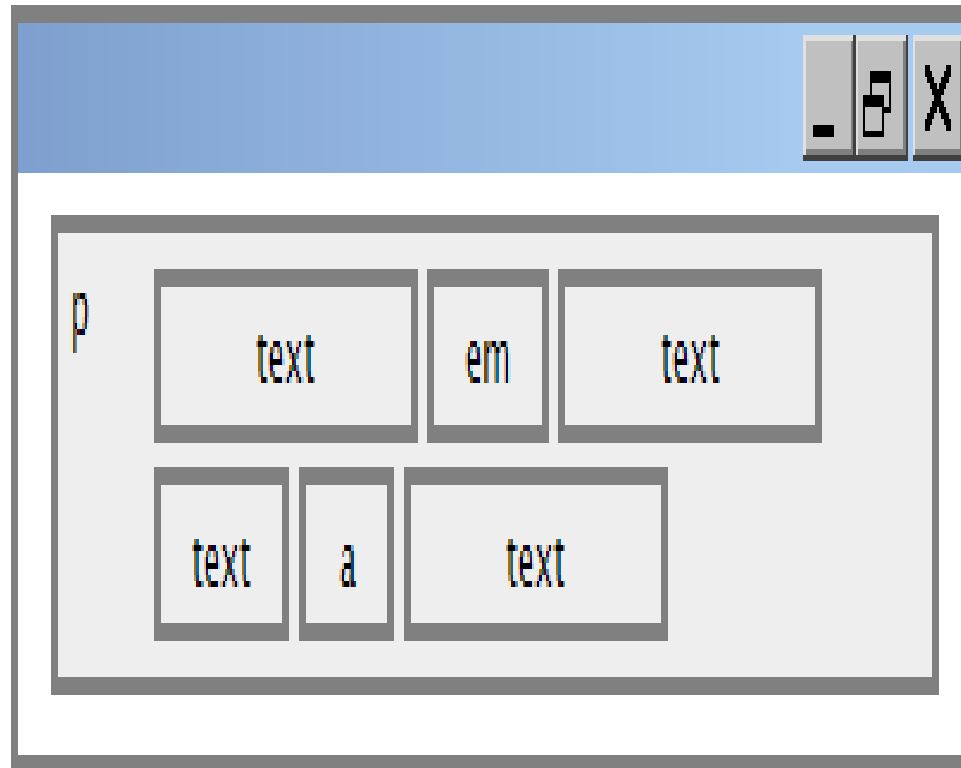
Document Flow – block elements

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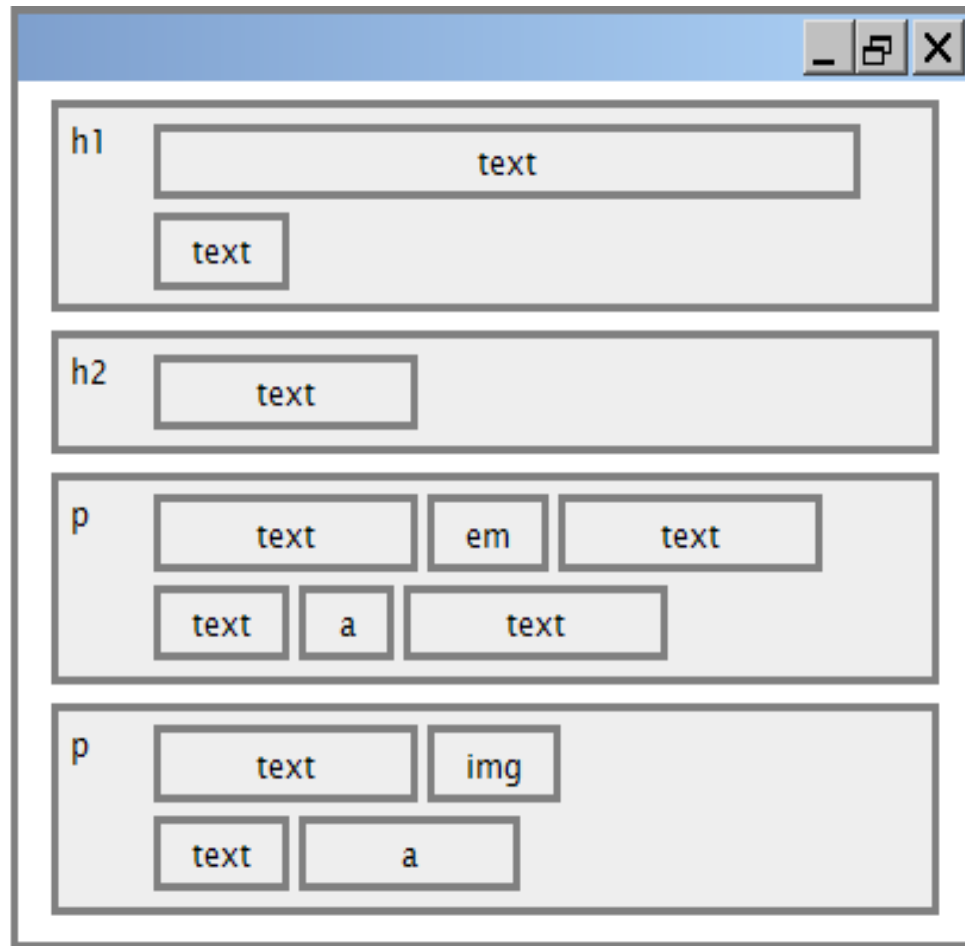
Document flow - inline elements

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Document flow - a larger example

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CSS properties for borders

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```
h2 { border: 5px solid red; }
```

CSS

This is a heading.

output

property	description
border	thickness/style/size of border on all 4 sides

- **Thickness:** px, pt, em, or thin, medium, thick
- **Style:** none, hidden, dotted, dashed, double, groove, inset, outset, ridge, solid
- **color**

More border properties

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property	description
border-color, border-width, border-style	specific properties of border on all 4 sides
border-bottom, border-left, border-right, border-top	all properties of border on a particular side
border-bottom-color, border-bottom-style, border-bottom-width, border-left-color, border-left-style, border-left-width, border-right-color, border-right-style, border-right-width, border-top-color, border-top-style, border-top-width	properties of border on a particular side

[Complete list of border properties](http://www.w3schools.com/cssref/pr_border.asp)

http://www.w3schools.com/cssref/pr_border.asp

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

CSS properties for padding

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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/cssref/pr_padding.asp	

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

Padding example 2

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

CSS

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

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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/cssref/pr_margin.asp	

CSS properties for dimensions

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```
p { width: 350px; background-color: yellow; }  
h2 { width: 50%; background-color: aqua; }
```

CSS

This paragraph uses the first style above

An h2 heading

output

property	description
width, height	how wide or tall to make this element (block elements only)
max-width, max-height, min-width, min-height	max/min size of this element in given dimension

Centering a block element: auto margins

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

CSS

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 `text-align: center;`