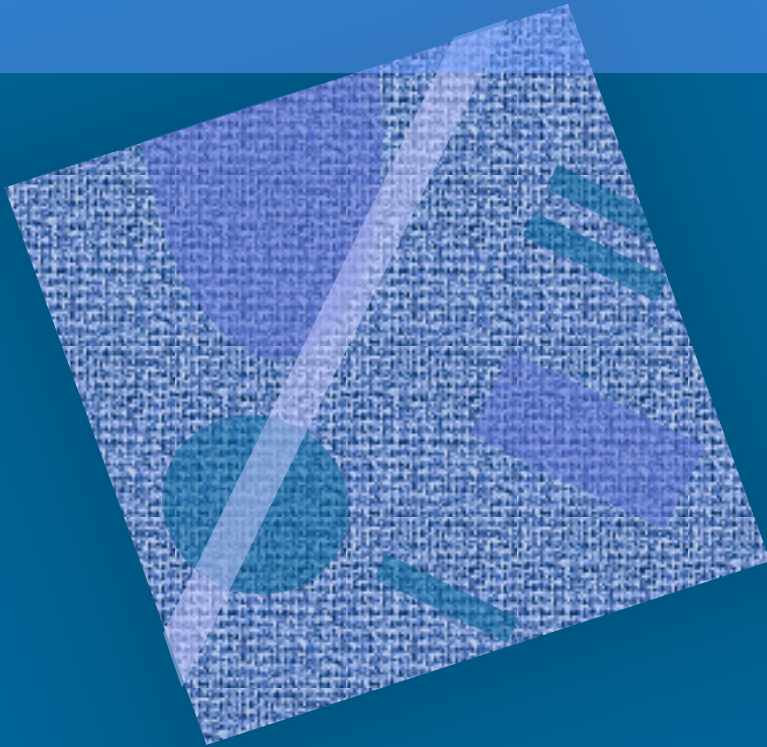


# COMS 359: Interactive Media

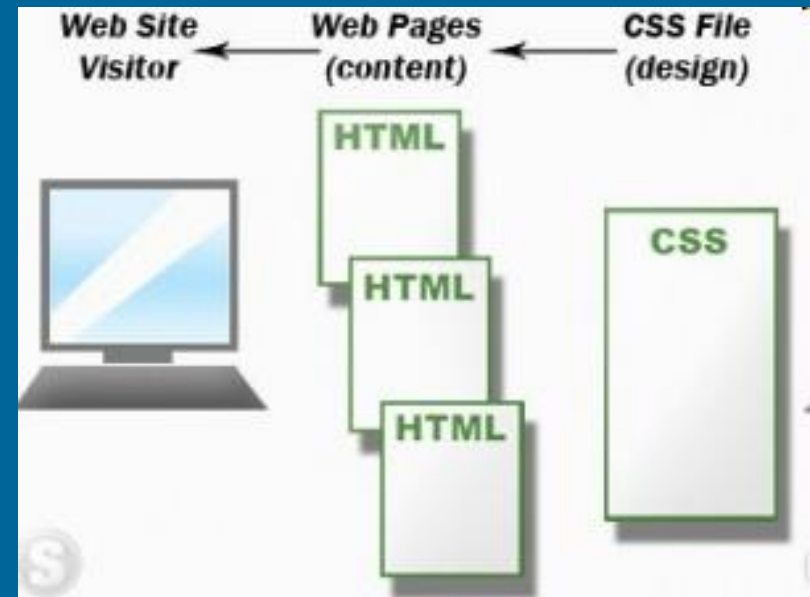


# Agenda

- Wireframe/Sitemap
- Review
- CSS Layout
- Preview

# Review

- Introducing CSS
  - What is CSS?
  - CSS Syntax
  - Location of CSS
  - The Cascade
- Box Model
  - Box Structure
  - Box Properties



# Review

## CSS Syntax

Declaration Block

Selector { property : value ; }

Declaration

CSS  
videos.com



```
/* External Style Sheet */

p { font-weight: bold;
    font-family: arial; }

h1 { font-size: 60px;
    color: #444400; }

h2 { font-size: 20px;
    color: #aaaaaa; }

h3 { font-size: 18px;
    font-family: monospace;
    color: #444444; }

ul li
{ font-family: arial;
  font-size: 16px;
  color: #4477bb;
  font-weight: bold; }
```

# Review

Style is “cascading” when there is an established precedence among different ways of specifying style specifications; this precedence is established by the W3C

## How Styles “Cascade”

1 Browser CSS default

2 External Style Sheet



3 Internal Style Sheet

```
1 <html>
2 <head>
3   <title>Style Sampler</title>
4   <style type="text/css">
5     H1 {font-family: Times;
6       color: green;
7     }
8     P {margin: 10px;
9       hr {background: darkred;
10        height: 20px;
11        td {padding: 1.5cm;
12      }
13    }
14  </style>
15 </head>
16 <body>
```

4 Inline Style



```
K:\niu-classes\coms359\ppt2013\css_exercise\basic_page3.html - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
widgetstyle7.css new 2 basic_page4.html basic_page3.html basic_page.html

1 <html>
2   <head>
3     <title>Lorem ipsum</title>
4     <style type="text/css">
5       body
6         {font-family:arial;}
7
8       .about
9         {color:#00ff00;}
10
11      h1
12        {color:#ff4400;
13         font-size:70px}
14
15      #news
16        {color:#0000ff;}
17
18      li > a
19        {color:#888888;
20         font-size:16px;
21         font-style:italic}
22
23      b
24        {color:#990000;
25         font-size:30px}
26    </style>
27  </head>
28
29  <body>
30
31    <h1>Lorem ipsum</h1>
32    <h2>In quis nulla at purus gravida interdum.</h2>
33
34  </body>
35</html>
```

## Internal Style Sheet

Add a `<style>` element to the `<head>` of the document

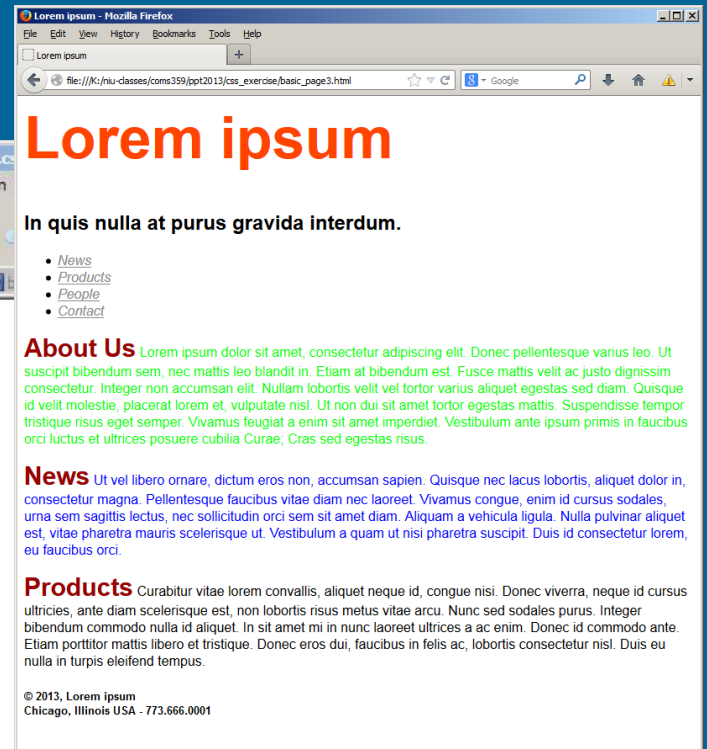
Specify *selectors* and *property:values* using CSS syntax



# External Style Sheet

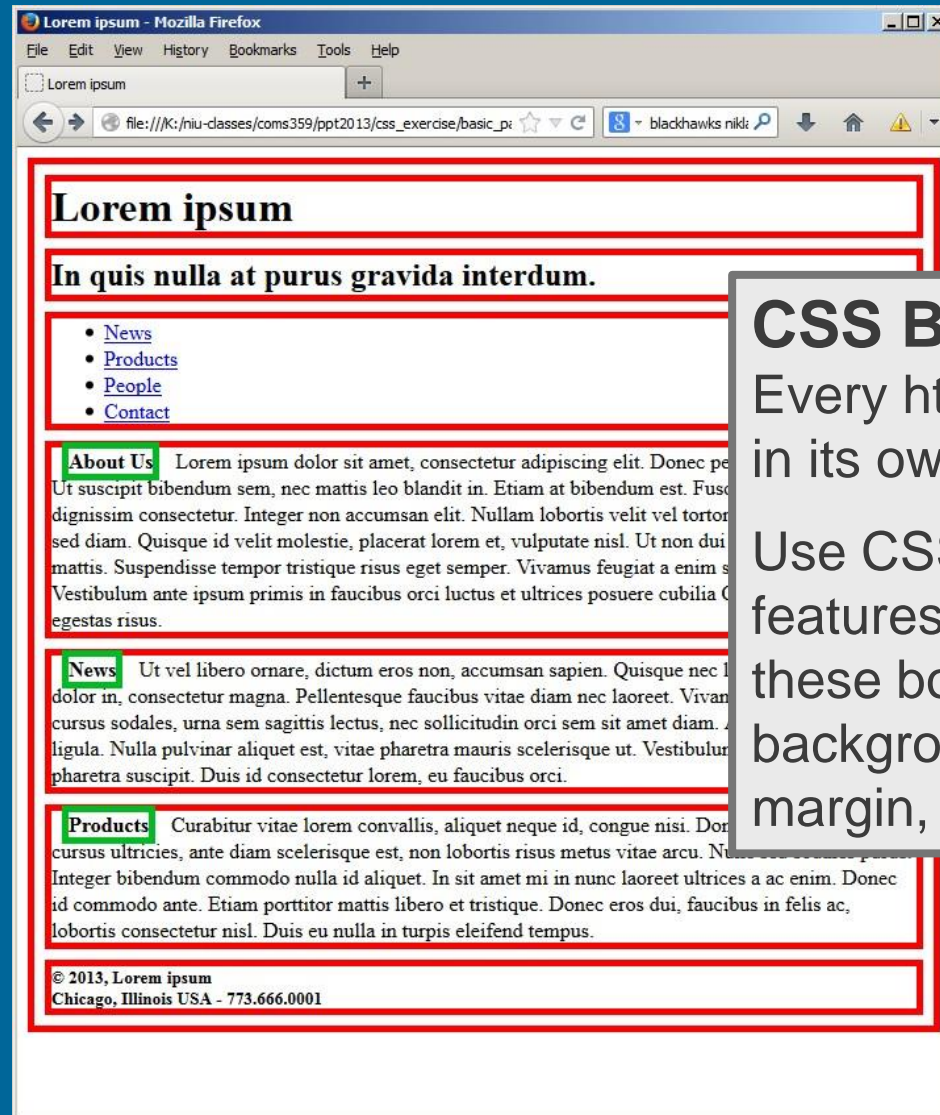
```
*K:\niu-classes\coms359\ppt2013\css_exercise\basic_page4.html - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
widgetstyle7.css stylesheet.css basic_page4.html basic_page.html
1 <html>
2 <head>
3   <title>Lorem ipsum</title>
4
5   <link href="stylesheet.css"
6       type="text/css"
7       rel="stylesheet">
8
9 </head>
10
11 <body>
12
13 <h1>Lorem ipsum</h1>
14 <h2>In quis nulla at purus gravida
15
16 <ul>
17   <li><a href="news.html">News</a>
18   <li><a href="products.html">Prodi
19   <li><a href="people.html">People
20   <li><a href="contact.html">Conta
21 </ul>
22
23 <p class="about"><b>About Us</b> Lo
consectetur adipiscing elit. Donec
```

```
*K:\niu-classes\coms359\ppt2013\css_exercise\stylesheet.css
File Edit Search View Encoding Language Settings Macro Run ?
widgetstyle7.css stylesheet.css basic_page4.html
1
2 body
3   {font-family:arial;}
4
5 .about
6   {color:#00ff00;}
7
8 h1
9   {color:#ff4400;
10    font-size:70px}
11
12 #news
13   {color:#0000ff;}
14
15 li > a
16   {color:#888888;
17    font-size:16px;
18    font-style:italic}
19
20 b
21   {color:#990000;
22    font-size:30px}
23
24
```





# Review



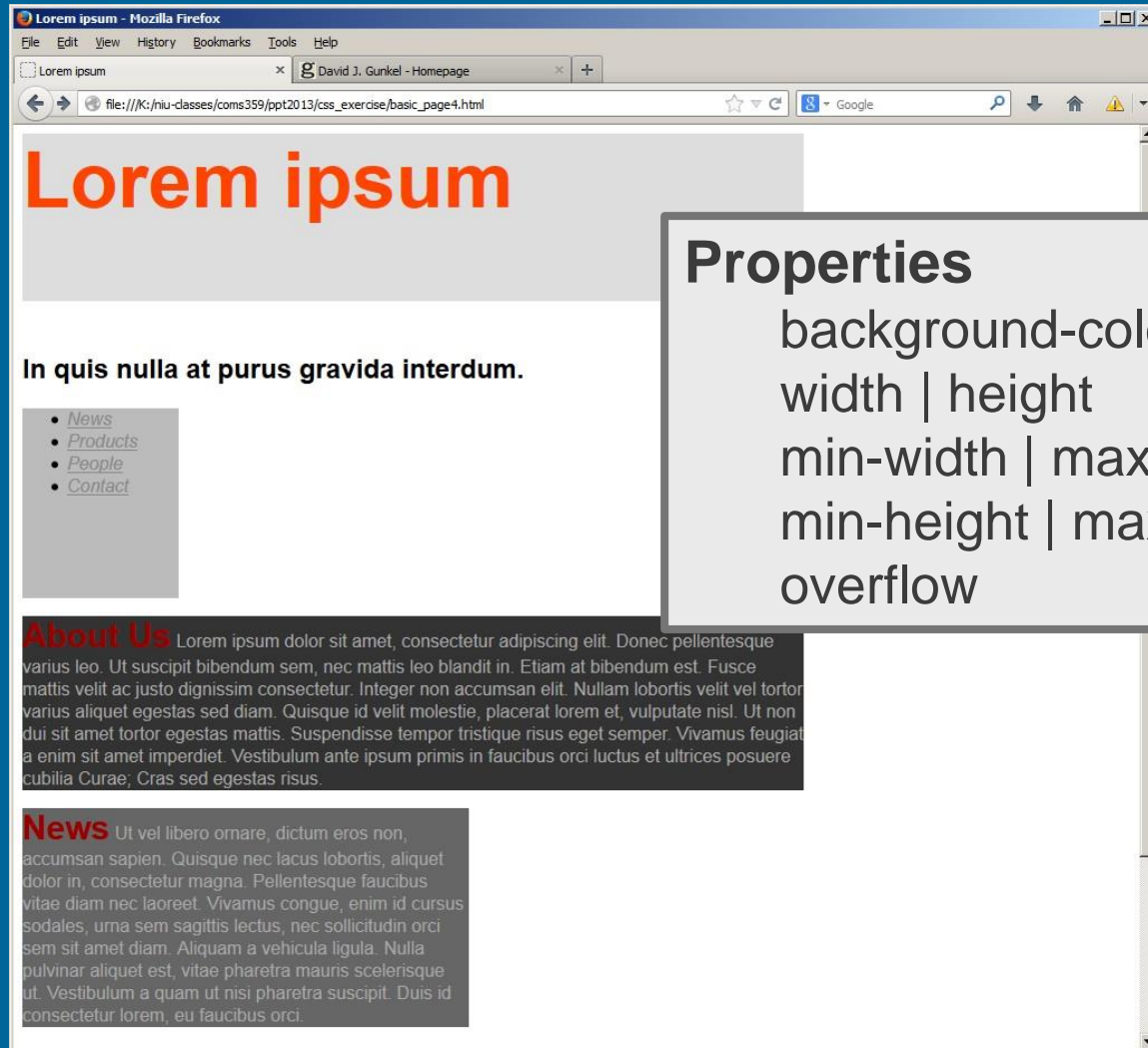
## CSS Box Model

Every html element resides in its own virtual box.

Use CSS to alter the features and appearance of these boxes: width, height, background color, border, margin, padding, etc.



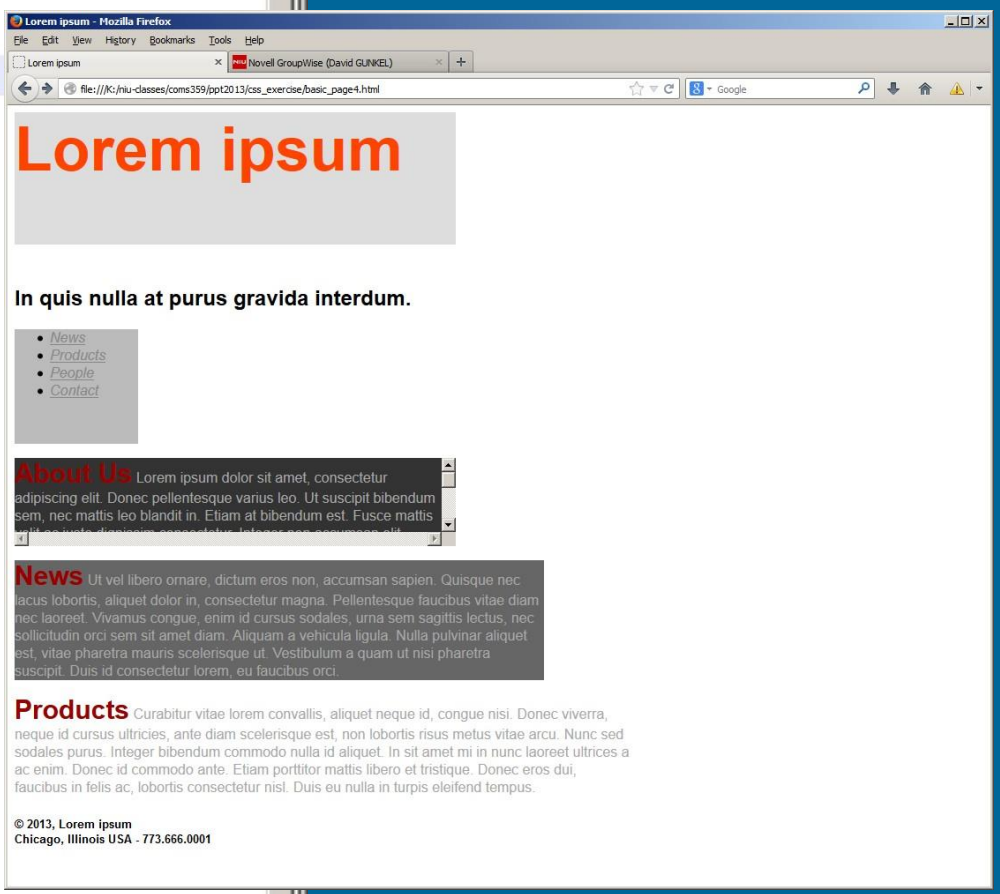
# Review



```

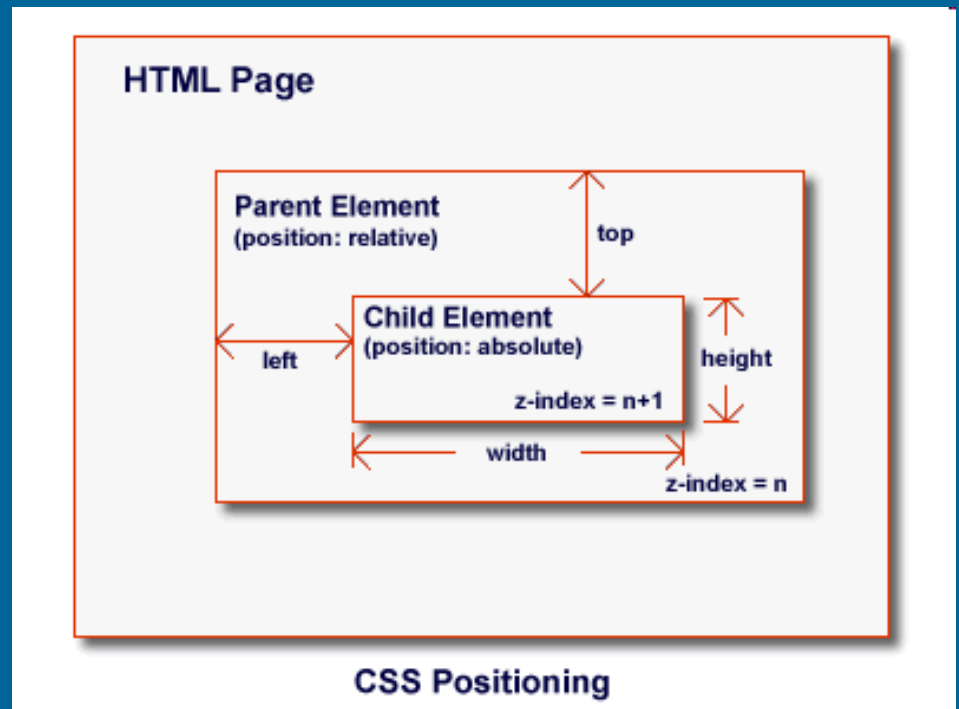
1
2   body
3   {font-family:arial;
4     width:700px}
5
6   p
7   {color:#a9a9a9}
8
9   .about
10  {background-color:#333333;
11    max-height:100px;
12    max-width:500px;
13    overflow:scroll}
14
15  h1
16  {color:#ff4400;
17    font-size:70px;
18    background-color:#dddddd;
19    height:150px;
20    width:500px}
21
22  #news
23  {background-color:#666666;
24    width:600px;}
25
26  li > a
27  {color:#888888;
28    font-size:16px;
29    font-style:italic;}
30
31  ul
32  {background-color:#bbbbbb;
33    width:100px;
34    height:130px}
35
36  b
37  {color:#990000;
38    font-size:30px}

```

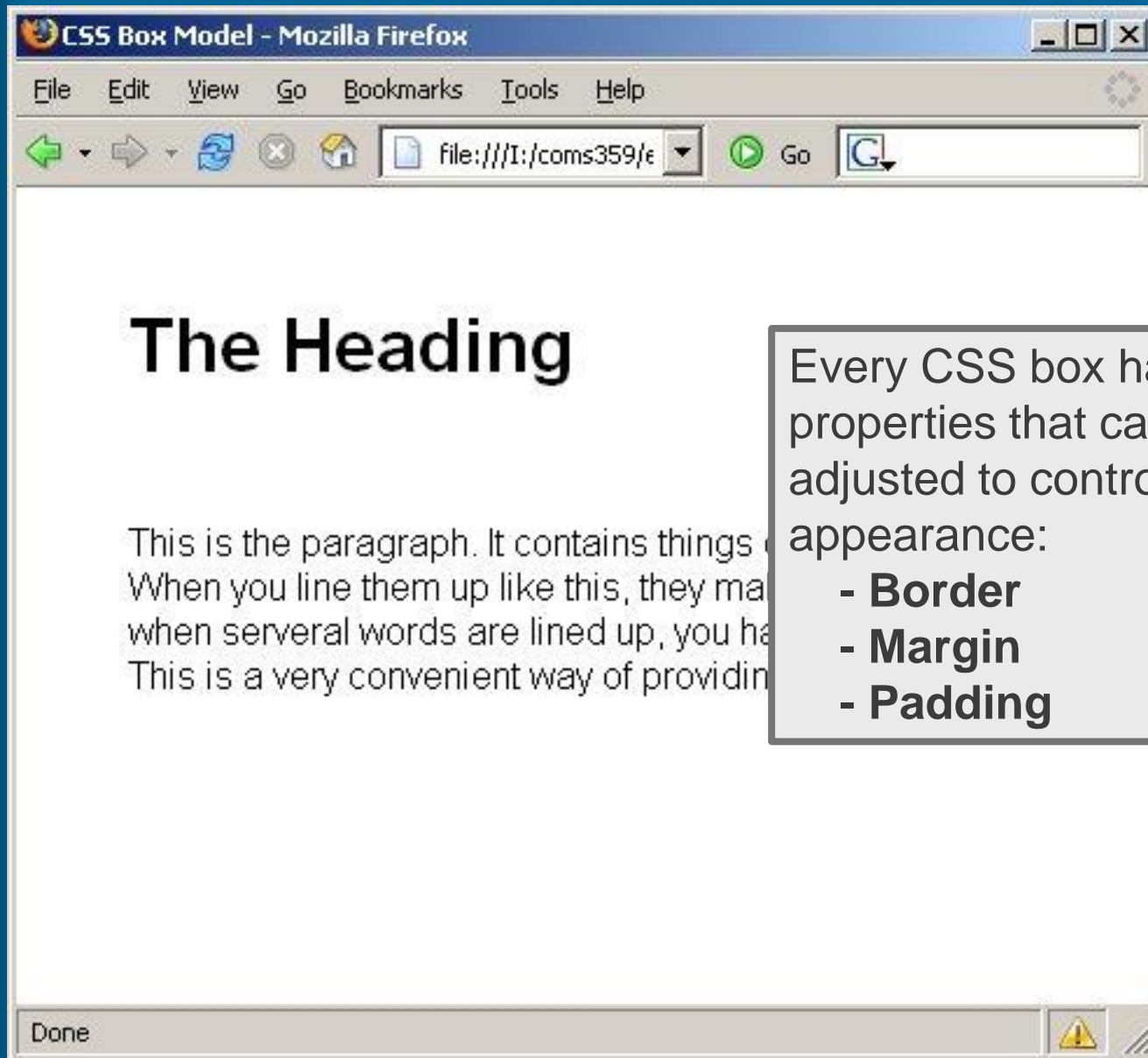


# Today

- Continue with CSS
  - margin, border & padding
  - CSS layout





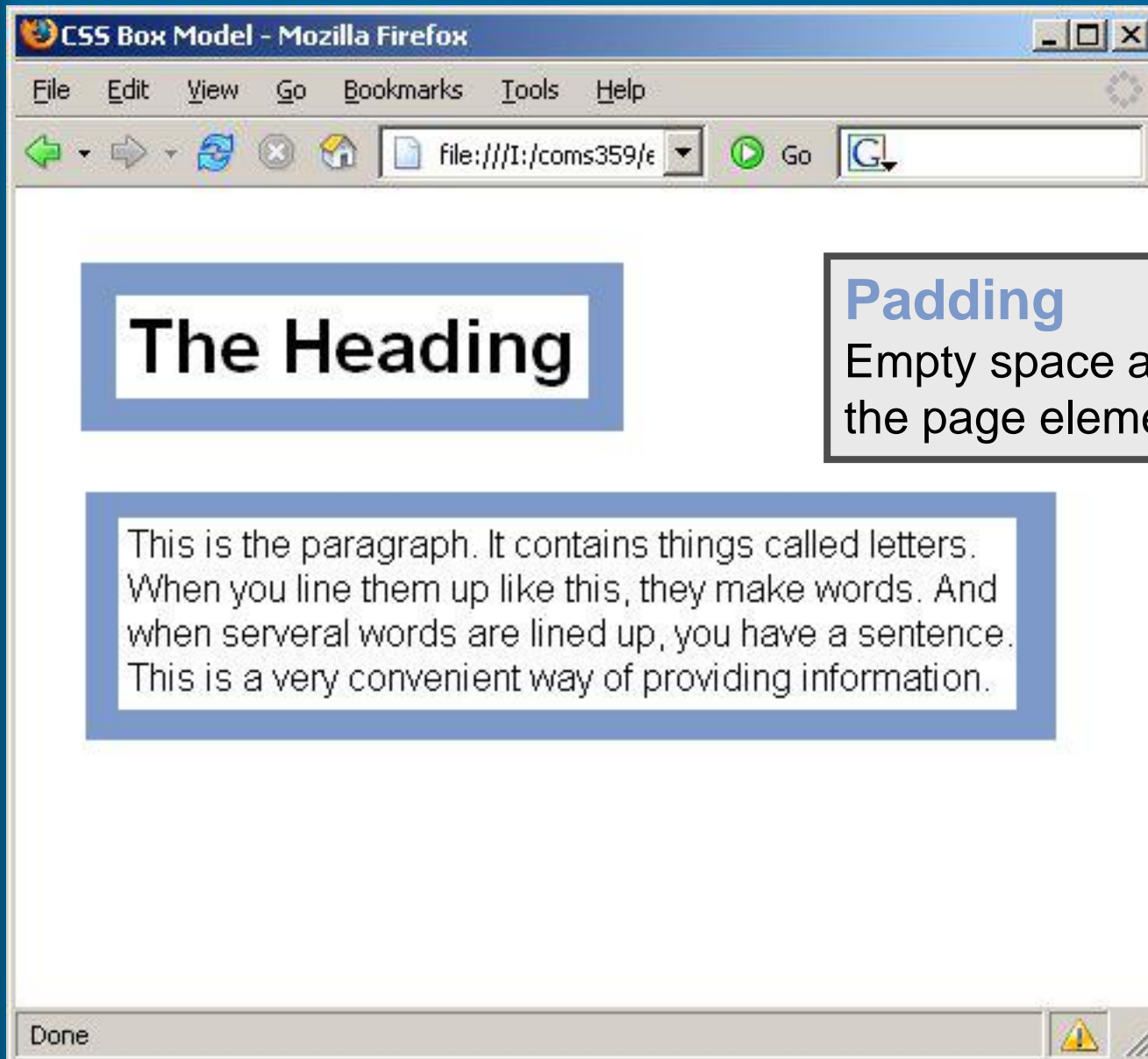


# The Heading

This is the paragraph. It contains things  
When you line them up like this, they may  
when several words are lined up, you have  
This is a very convenient way of providing

Every CSS box has three properties that can be adjusted to control its appearance:

- **Border**
- **Margin**
- **Padding**

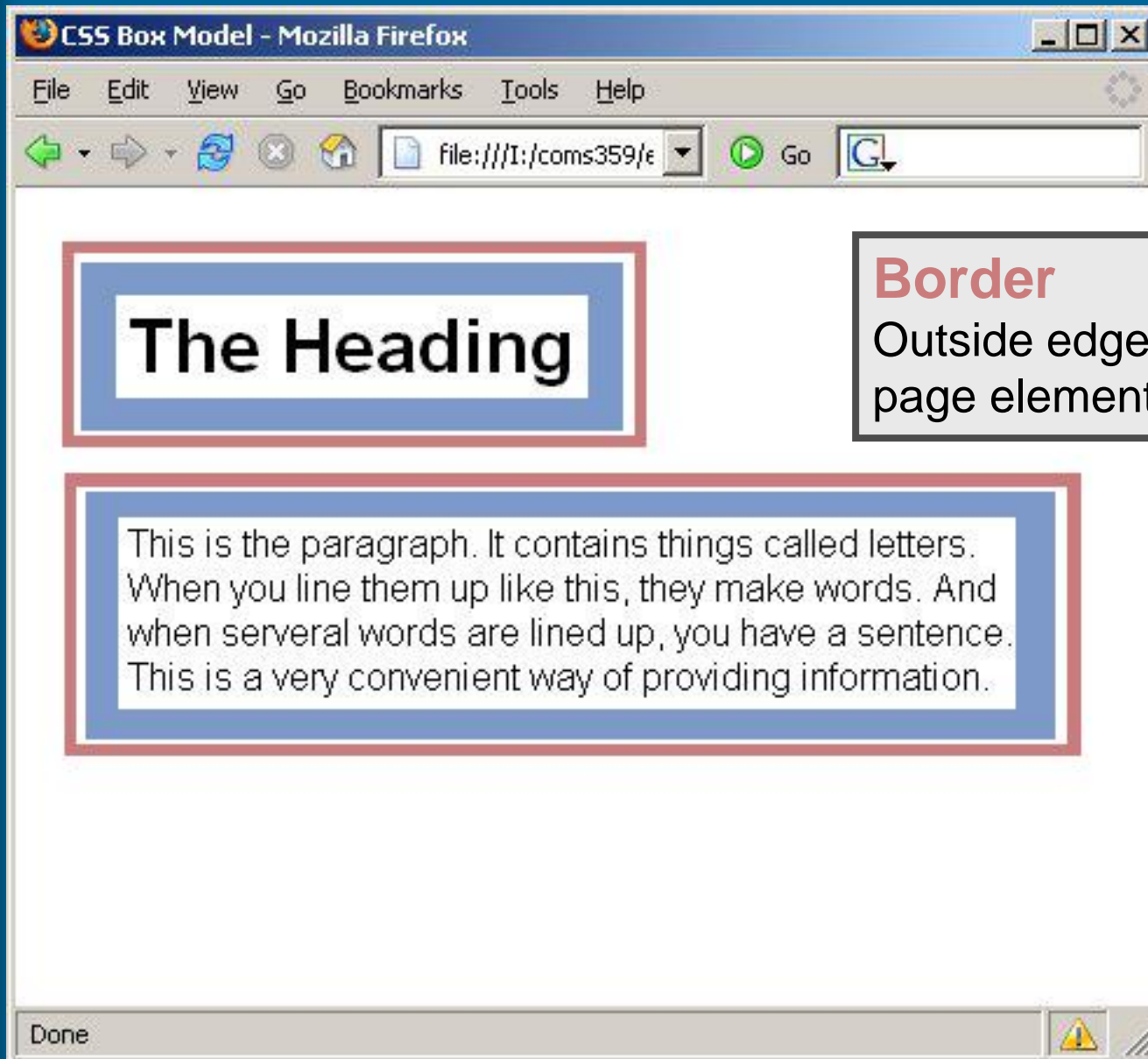


## The Heading

This is the paragraph. It contains things called letters. When you line them up like this, they make words. And when serveral words are lined up, you have a sentence. This is a very convenient way of providing information.

### Padding

Empty space around the page element



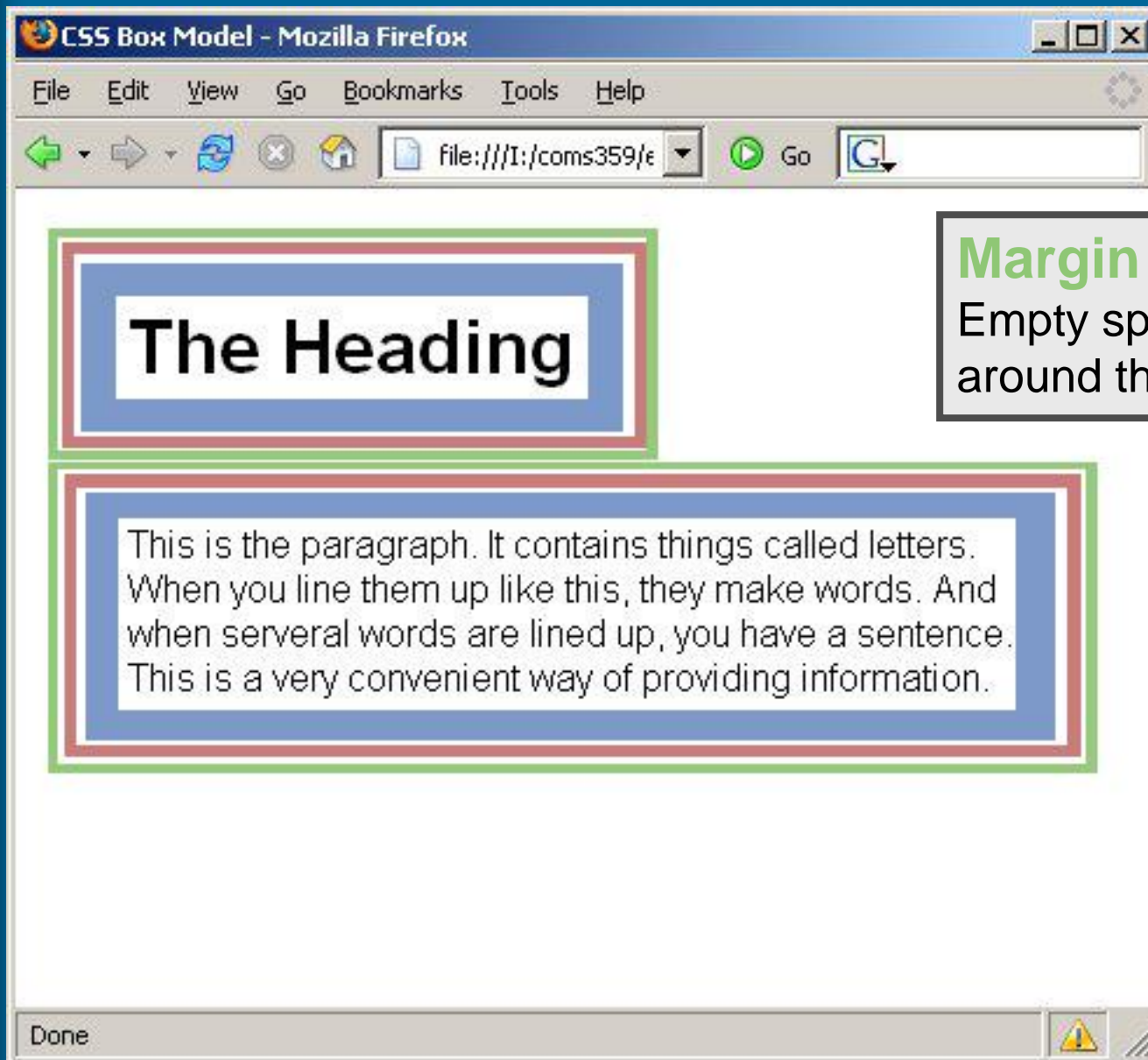
## The Heading

This is the paragraph. It contains things called letters. When you line them up like this, they make words. And when serveral words are lined up, you have a sentence. This is a very convenient way of providing information.

### Border

Outside edge of the page element





# The Heading

This is the paragraph. It contains things called letters. When you line them up like this, they make words. And when serveral words are lined up, you have a sentence. This is a very convenient way of providing information.

## Margin

Empty space around the box

# Border Properties

PROPERTY	DESCRIPTION	VALUES	SPECIAL NOTES
border-color	Changes the color of the border	[color]   transparent   inherit	Alternatives: border-top-color, border-right-color, border-bottom-color, border-left-color
border-style	Changes the look of the border line	none   hidden   dotted   dashed   solid   double   groove   ridge   inset   outset	Alternatives: border-top-style, border-right-style, border-bottom-style, border-left-style
border-width	Changes thickness, style, and color of border line	thin   medium   thick   absolute value	Alternatives: border-top-width, border-right-width, border-bottom-width, border-left-width
border-bottom	Changes thickness, style, and color of bottom border	thin   medium   thick   [length]   hidden   dotted   dashed   solid   double   groove   ridge   inset   outset   [color]   transparent	
border-left	Changes thickness, style, and color of left border	thin   medium   thick   [length]   hidden   dotted   dashed   solid   double   groove   ridge   inset   outset   [color]   transparent	
border-top	Changes thickness, style, and color of top border	thin   medium   thick   [length]   hidden   dotted   dashed   solid   double   groove   ridge   inset   outset   [color]   transparent	
border-right	Changes thickness, style, and color of right border	thin   medium   thick   [length]   hidden   dotted   dashed   solid   double   groove   ridge   inset   outset   [color]   transparent	



# border-style

img {border-style:solid}



**border-style: dotted**



**border-style: dashed**



**border-style: solid**



**border-style: double**



**border-style: groove**



**border-style: ridge**



**border-style: inset**



**border-style: outset**



**border-style: none**



# border-width

```
img {border-style:solid;  
border-width:30px}
```



**border-width: thin**



**border-width: medium**



**border-width: thick**



**border-width: 10px  
(number of pixels)**

## Note:

In order for “border-width” to work you must first specify a border. You do this by using “border-style”

# border-color

```
img {border-style:solid;  
      border-width:30px;  
      border-color:#338800}
```



border-color:#FF0000



border-color:#00FF00



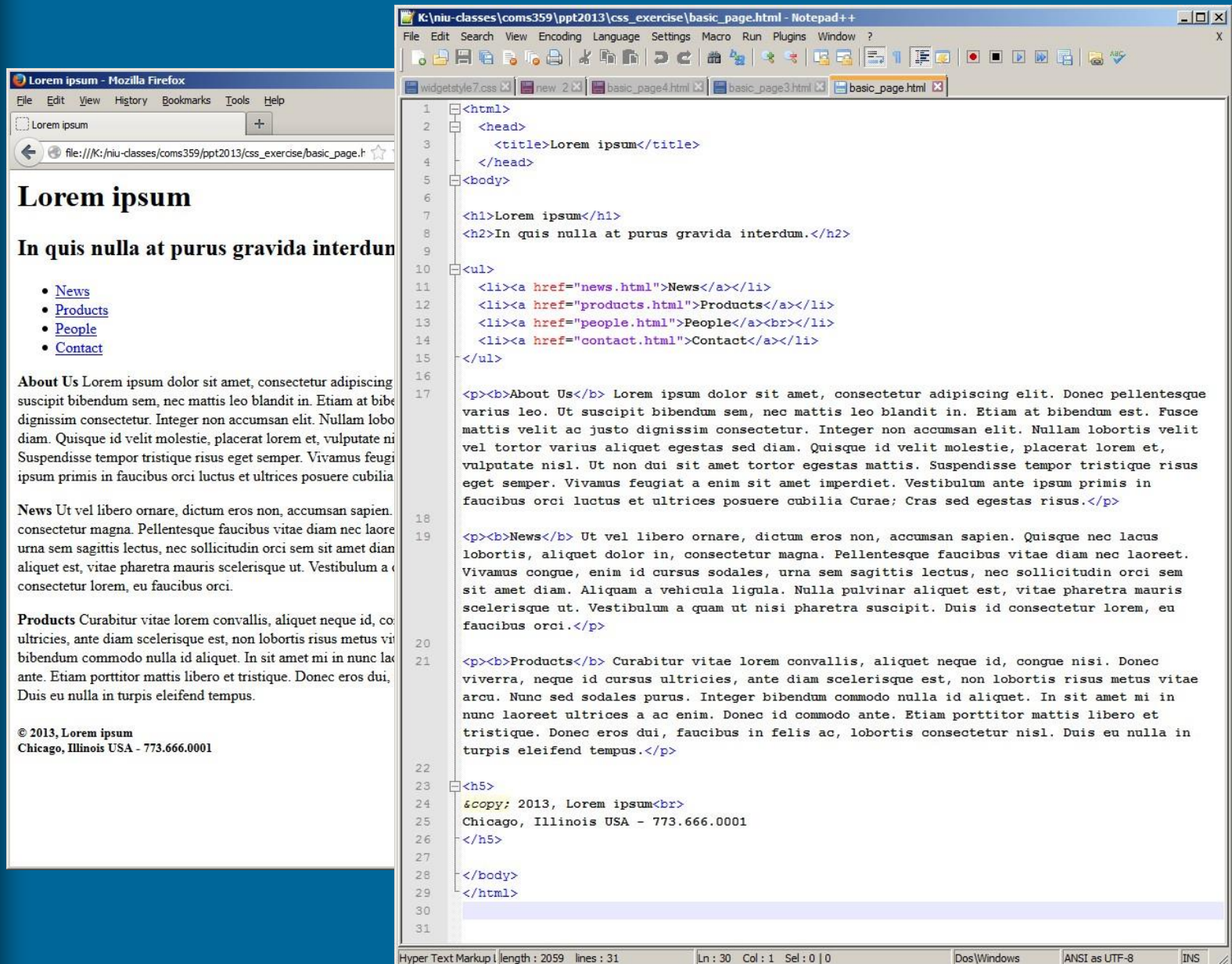
border-color:#0000FF

## Note:

In order for “border-color” to work you must first specify a border. You do this by using “border-style”



# Exercise 1 – <http://gunkelweb.com/coms359/lorem.html>



The image shows a side-by-side comparison of a web browser's rendering of a Lorem Ipsum page and its underlying HTML code in Notepad++.

**Browser View (Left):**

- Title:** Lorem ipsum - Mozilla Firefox
- Address Bar:** file:///K:/niu-classes/coms359/ppt2013/css\_exercise/basic\_page.html
- Page Content:**
  - # Lorem ipsum
  - ## In quis nulla at purus gravida interdum
  - [News](#)
    - [Products](#)
    - [People](#)
    - [Contact](#)
  - About Us** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec pellentesque varius leo. Ut suscipit bibendum sem, nec mattis leo blandit in. Etiam at bibendum est. Fusce mattis velit ac justo dignissim consectetur. Integer non accumsan elit. Nullam lobortis velit vel tortor varius aliquet egestas sed diam. Quisque id velit molestie, placerat lorem et, vulputate nisl. Ut non dui sit amet tortor egestas mattis. Suspendisse tempor tristique risus eget semper. Vivamus feugiat a enim sit amet imperdiet. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Cras sed egestas risus.

**News** Ut vel libero ornare, dictum eros non, accumsan sapien. consectetur magna. Pellentesque faucibus vitae diam nec laore urna sem sagittis lectus, nec sollicitudin orci sem sit amet dian aliquet est, vitae pharetra mauris scelerisque ut. Vestibulum a consectetur lorem, eu faucibus orci.

**Products** Curabitur vitae lorem convallis, aliquet neque id, congue nisi. Donec viverra, neque id cursus ultricies, ante diam scelerisque est, non lobortis risus metus vitae arcu. Nunc sed sodales purus. Integer bibendum commodo nulla id aliquet. In sit amet mi in nunc laoreet ultrices a ac enim. Donec id commodo ante. Etiam porttitor mattis libero et tristique. Donec eros dui, faucibus in felis ac, lobortis consectetur nisl. Duis eu nulla in turpis eleifend tempus.

© 2013, Lorem ipsum  
Chicago, Illinois USA - 773.666.0001

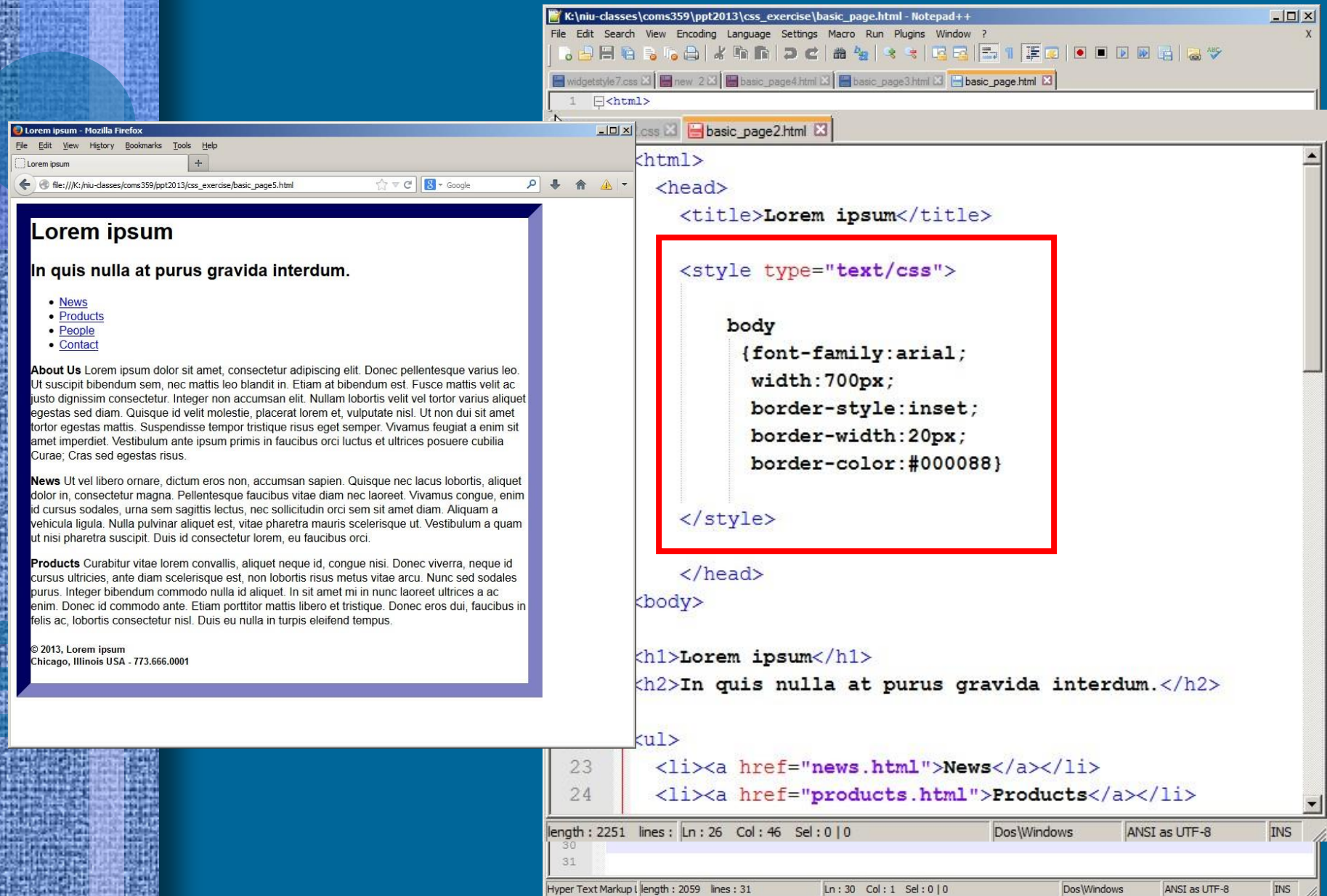
**Code Editor View (Right):**

- File Name:** K:\niu-classes\coms359\ppt2013\css\_exercise\basic\_page.html - Notepad++
- Code:**

```
1 <html>
2   <head>
3     <title>Lorem ipsum</title>
4   </head>
5   <body>
6
7     <h1>Lorem ipsum</h1>
8     <h2>In quis nulla at purus gravida interdum.</h2>
9
10    <ul>
11      <li><a href="news.html">News</a></li>
12      <li><a href="products.html">Products</a></li>
13      <li><a href="people.html">People</a><br></li>
14      <li><a href="contact.html">Contact</a></li>
15    </ul>
16
17    <p><b>About Us</b> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec pellentesque
18      varius leo. Ut suscipit bibendum sem, nec mattis leo blandit in. Etiam at bibendum est. Fusce
19      mattis velit ac justo dignissim consectetur. Integer non accumsan elit. Nullam lobortis velit
20      vel tortor varius aliquet egestas sed diam. Quisque id velit molestie, placerat lorem et,
21      vulputate nisl. Ut non dui sit amet tortor egestas mattis. Suspendisse tempor tristique risus
22      eget semper. Vivamus feugiat a enim sit amet imperdiet. Vestibulum ante ipsum primis in
23      faucibus orci luctus et ultrices posuere cubilia Curae; Cras sed egestas risus.</p>
24
25    <p><b>News</b> Ut vel libero ornare, dictum eros non, accumsan sapien. Quisque nec lacus
26      lobortis, aliquet dolor in, consectetur magna. Pellentesque faucibus vitae diam nec laoreet.
27      Vivamus congue, enim id cursus sodales, urna sem sagittis lectus, nec sollicitudin orci sem
28      sit amet diam. Aliquam a vehicula ligula. Nulla pulvinar aliquet est, vitae pharetra mauris
29      scelerisque ut. Vestibulum a quam ut nisi pharetra suscipit. Duis id consectetur lorem, eu
30      faucibus orci.</p>
31
32    <p><b>Products</b> Curabitur vitae lorem convallis, aliquet neque id, congue nisi. Donec
33      viverra, neque id cursus ultricies, ante diam scelerisque est, non lobortis risus metus vitae
34      arcu. Nunc sed sodales purus. Integer bibendum commodo nulla id aliquet. In sit amet mi in
35      nunc laoreet ultrices a ac enim. Donec id commodo ante. Etiam porttitor mattis libero et
36      tristique. Donec eros dui, faucibus in felis ac, lobortis consectetur nisl. Duis eu nulla in
37      turpis eleifend tempus.</p>
38
39    <h5>
40      &copy; 2013, Lorem ipsum<br>
41      Chicago, Illinois USA - 773.666.0001
42    </h5>
43  </body>
44 </html>
```



# Exercise 1 – <http://gunkelweb.com/coms359/lorem.html>



The image shows a side-by-side comparison of a web browser and a code editor. The browser window on the left displays the rendered page, which has a blue border and contains the text "Lorem ipsum" and "In quis nulla at purus gravida interdum." The code editor on the right shows the source code for the page, with the CSS highlighted in a red box.

**Browser View (Left):**

## Lorem ipsum

In quis nulla at purus gravida interdum.

- [News](#)
- [Products](#)
- [People](#)
- [Contact](#)

**About Us** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec pellentesque varius leo. Ut suscipit bibendum sem, nec mattis leo blandit in. Etiam at bibendum est. Fusce mattis velit ac justo dignissim consectetur. Integer non accumsan elit. Nullam lobortis velit vel tortor varius aliquet egestas sed diam. Quisque id velit molestie, placerat lorem et, vulputate nisl. Ut non dui sit amet tortor egestas mattis. Suspendisse tempor tristique risus eget semper. Vivamus feugiat a enim sit amet imperdiet. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Cras sed egestas risus.

**News** Ut vel libero ornare, dictum eros non, accumsan sapien. Quisque nec lacus lobortis, aliquet dolor in, consectetur magna. Pellentesque faucibus vitae diam nec laoreet. Vivamus congue, enim id cursus sodales, urna sem sagittis lectus, nec sollicitudin orci sem sit amet diam. Aliquam a vehicula ligula. Nulla pulvinar aliquet est, vitae pharetra mauris scelerisque ut. Vestibulum a quam ut nisi pharetra suscipit. Duis id consectetur lorem, eu faucibus orci.

**Products** Curabitur vitae lorem convallis, aliquet neque id, congue nisi. Donec viverra, neque id cursus ultricies, ante diam scelerisque est, non lobortis risus metus vitae arcu. Nunc sed sodales purus. Integer bibendum commodo nulla id aliquet. In sit amet mi in nunc laoreet ultrices a ac enim. Donec id commodo ante. Etiam porttitor mattis libero et tristique. Donec eros dui, faucibus in felis ac, lobortis consectetur nisl. Duis eu nulla in turpis eleifend tempus.

© 2013, Lorem ipsum  
Chicago, Illinois USA - 773.666.0001

**Code Editor View (Right):**

```
<html>
<head>
  <title>Lorem ipsum</title>

  <style type="text/css">

    body
    {font-family:arial;
     width:700px;
     border-style:inset;
     border-width:20px;
     border-color:#000088}

  </style>

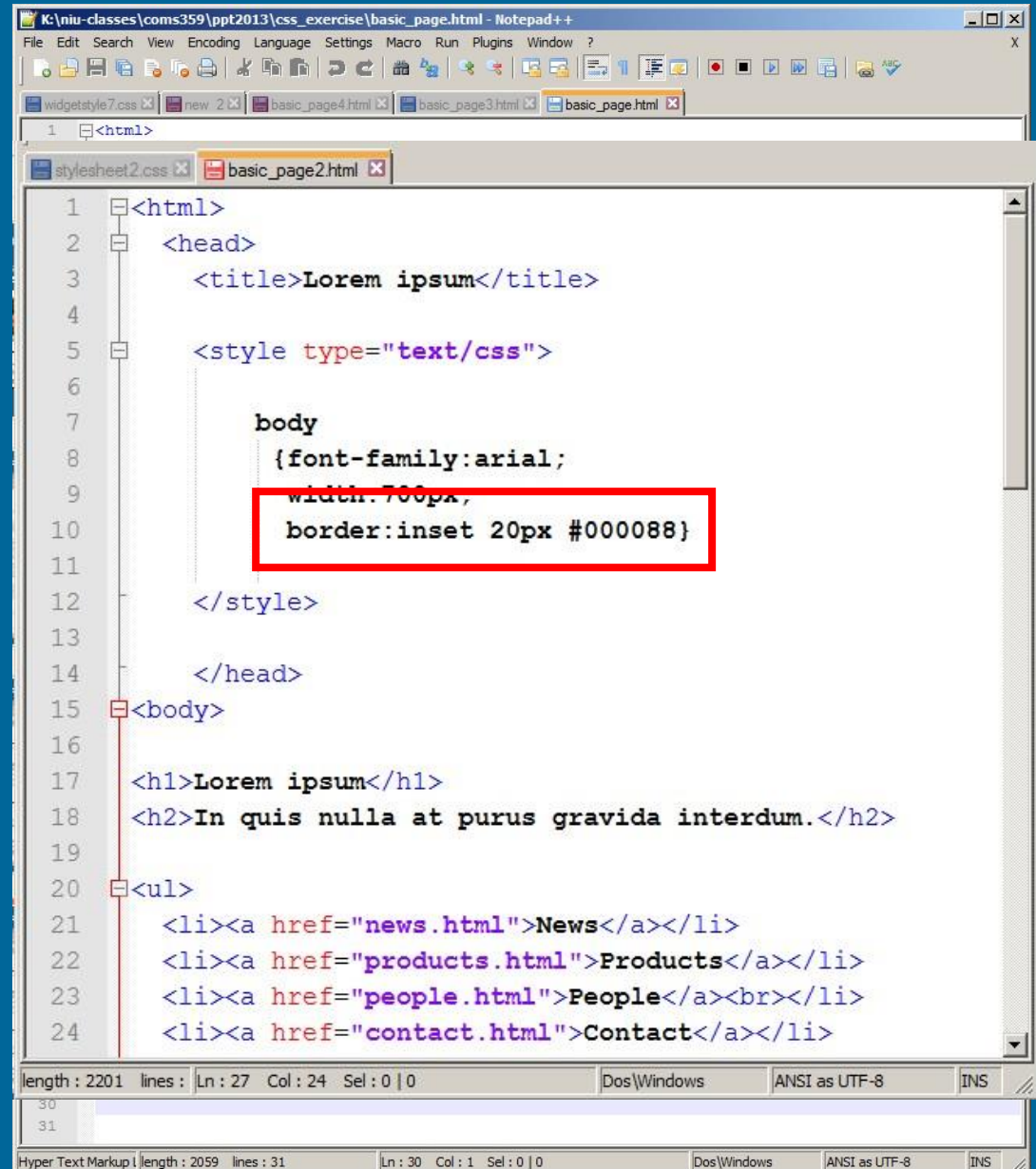
</head>
<body>

<h1>Lorem ipsum</h1>
<h2>In quis nulla at purus gravida interdum.</h2>

<ul>
  <li><a href="news.html">News</a></li>
  <li><a href="products.html">Products</a></li>
```

## Exercise 1 – <http://gunkelweb.com/coms359/lorem.html>

Shorthand  
notation



```
1 <html>
2   <head>
3     <title>Lorem ipsum</title>
4
5     <style type="text/css">
6
7         body
8         {font-family:arial;
9           width:700px,
10          border:inset 20px #000088}
11
12    </style>
13
14  </head>
15  <body>
16
17    <h1>Lorem ipsum</h1>
18    <h2>In quis nulla at purus gravida interdum.</h2>
19
20    <ul>
21      <li><a href="news.html">News</a></li>
22      <li><a href="products.html">Products</a></li>
23      <li><a href="people.html">People</a><br></li>
24      <li><a href="contact.html">Contact</a></li>
25    </ul>
26  </body>
27 </html>
```



# Padding Properties

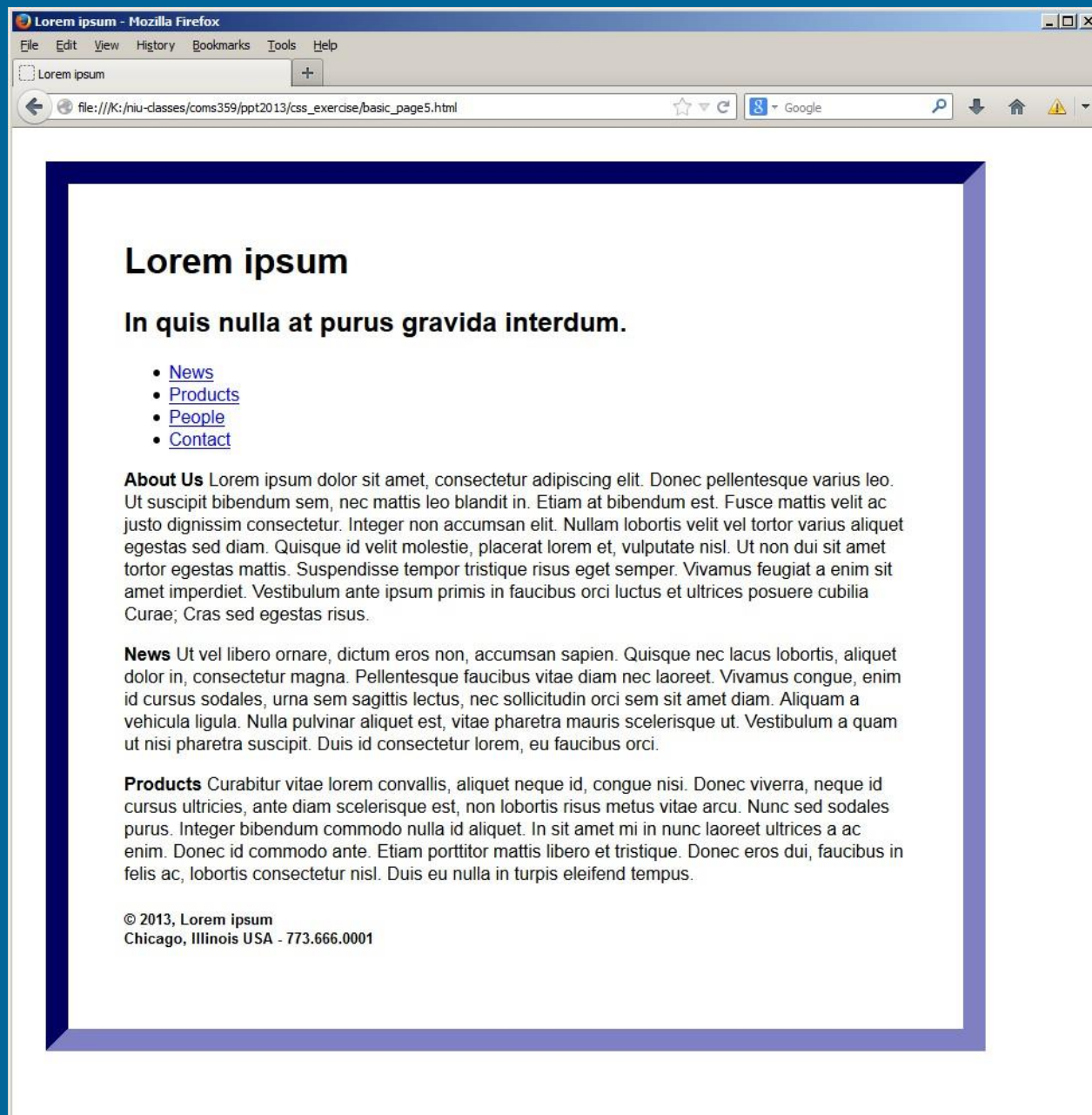
PROPERTY	DESCRIPTION	VALUES	SPECIAL NOTES
padding-top	Changes thickness of white space between the top of the contents and border line	[padding-width]   inherit	Padding width is measured in %, em, cm, mm, or in.
padding-right	Changes thickness of white space between the right of the contents and border line	[padding-width]   inherit	Padding width is measured in %, em, cm, mm, or in.
padding-bottom	Changes thickness of white space between the bottom of the contents and border line	[padding-width]   inherit	Padding width is measured in %, em, cm, mm, or in.
padding-left	Changes thickness of white space between the left of the contents and border line	[padding-width]   inherit	Padding width is measured in %, em, cm, mm, or in.



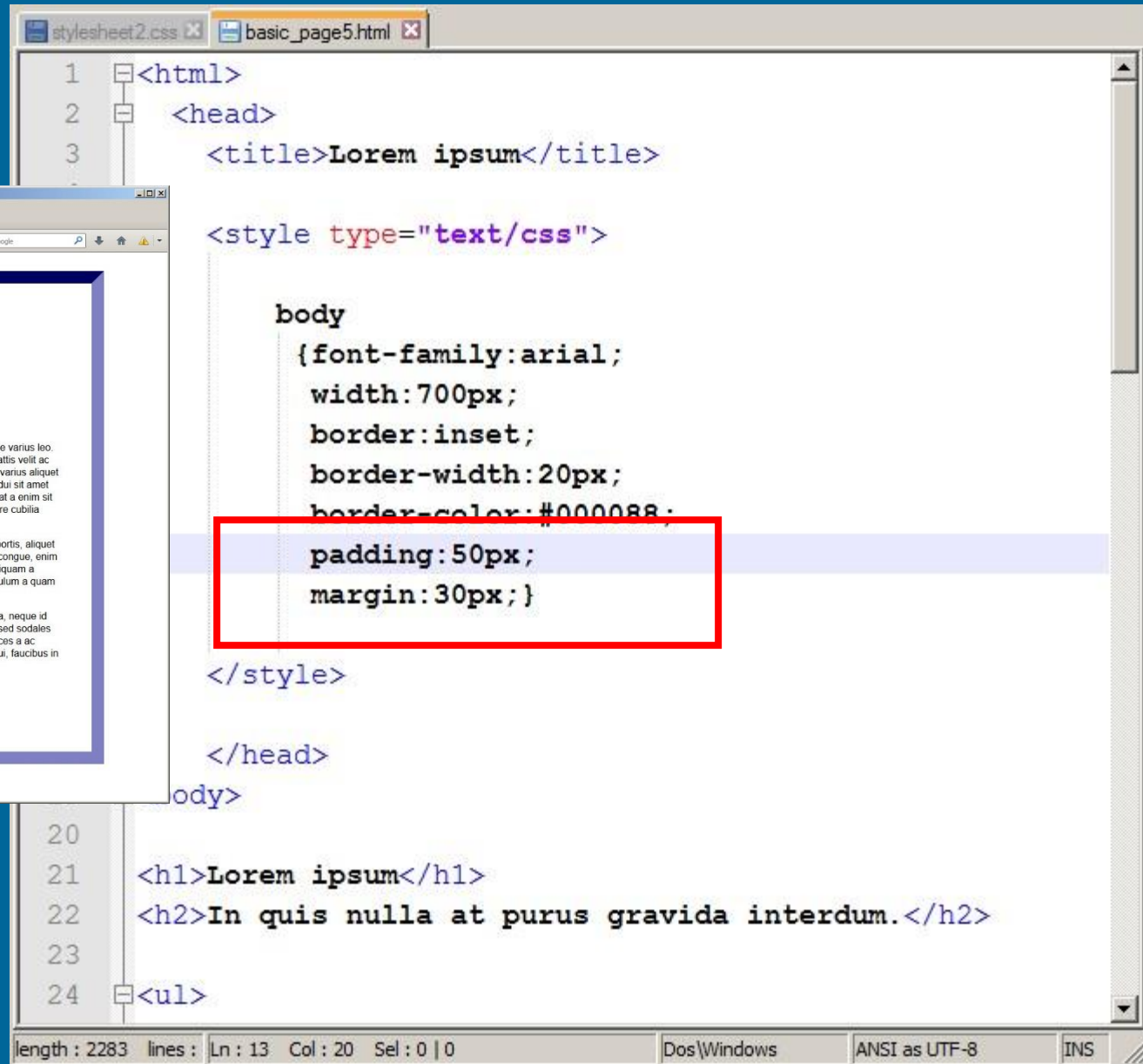
# Margin Properties

PROPERTY	DESCRIPTION	VALUES	SPECIAL NOTES
margin-bottom	Defines transparent area at the bottom of the CSS box	[length]   [percentage]   auto   inherit	Length is measured in ems, centimeters or inches.
margin-left	Defines transparent area at the left side of the CSS box	[length]   [percentage]   auto   inherit	Length is measured in ems, centimeters (cm), or inches (in).
margin-top	Defines transparent area at the top of the CSS box	[length]   [percentage]   auto   inherit	Length is measured in ems, centimeters (cm), or inches (in).
margin-right	Defines transparent area at the right side of the CSS box	[length]   [percentage]   auto   inherit	Length is measured in ems, centimeters (cm), or inches (in).
white-space	Determines how tabs and repeated spaces are handled	normal   pre   nowrap   inherit	Both pre and nowrap recognize "\A" as a line break symbol.

padding: 50px  
margin: 30px

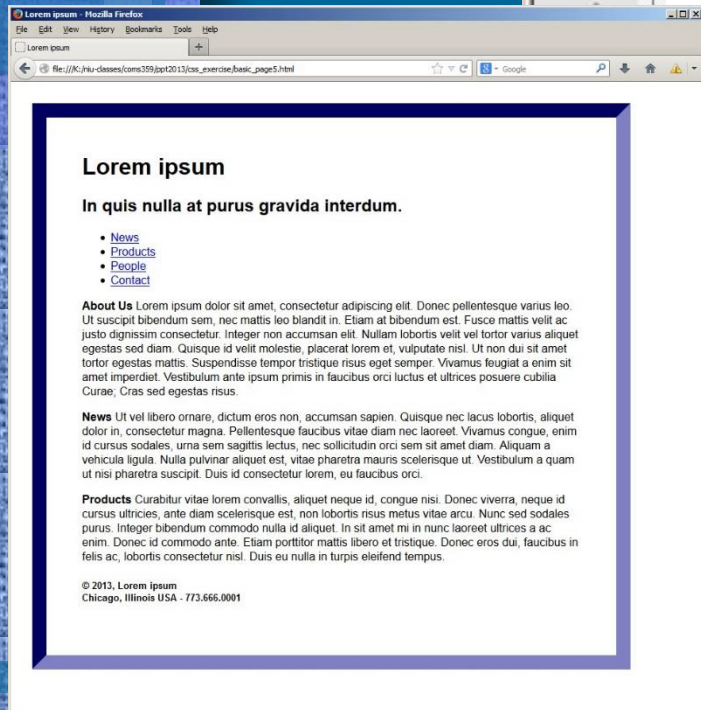


## Exercise 2 – add padding and margin



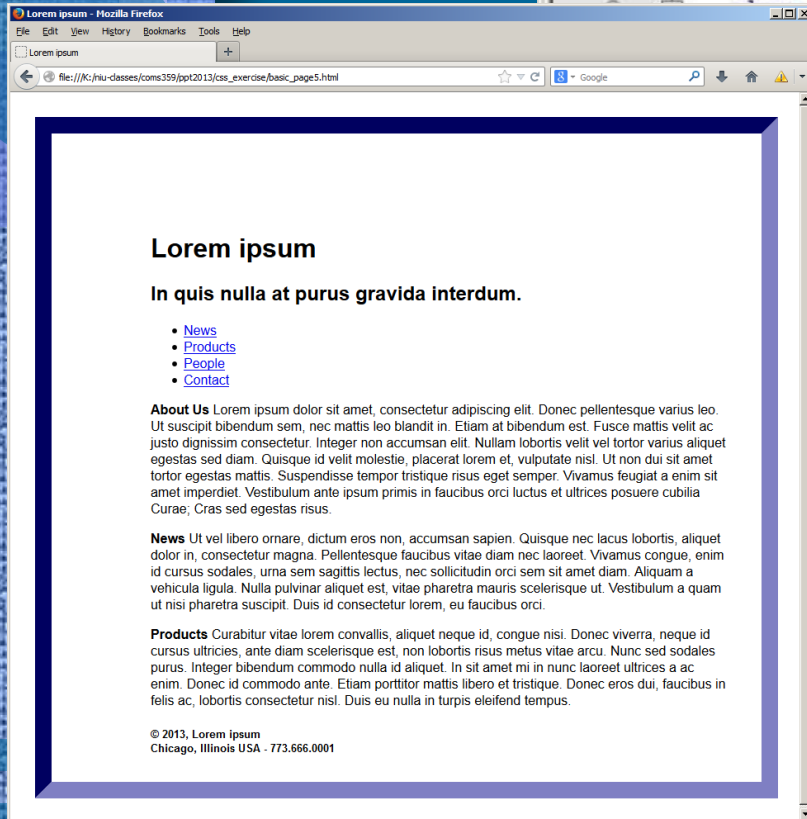
```
1 <html>
2 <head>
3   <title>Lorem ipsum</title>
4
5   <style type="text/css">
6
7     body
8     {font-family:arial;
9       width:700px;
10      border:inset;
11      border-width:20px;
12      border-color:#000088;
13      padding:50px;
14      margin:30px;}
15
16   </style>
17
18 </head>
19 <body>
20
21   <h1>Lorem ipsum</h1>
22   <h2>In quis nulla at purus gravida interdum.</h2>
23
24   <ul>
```

length : 2283 lines : Ln : 13 Col : 20 Sel : 0 | 0 Dos\Windows ANSI as UTF-8 INS





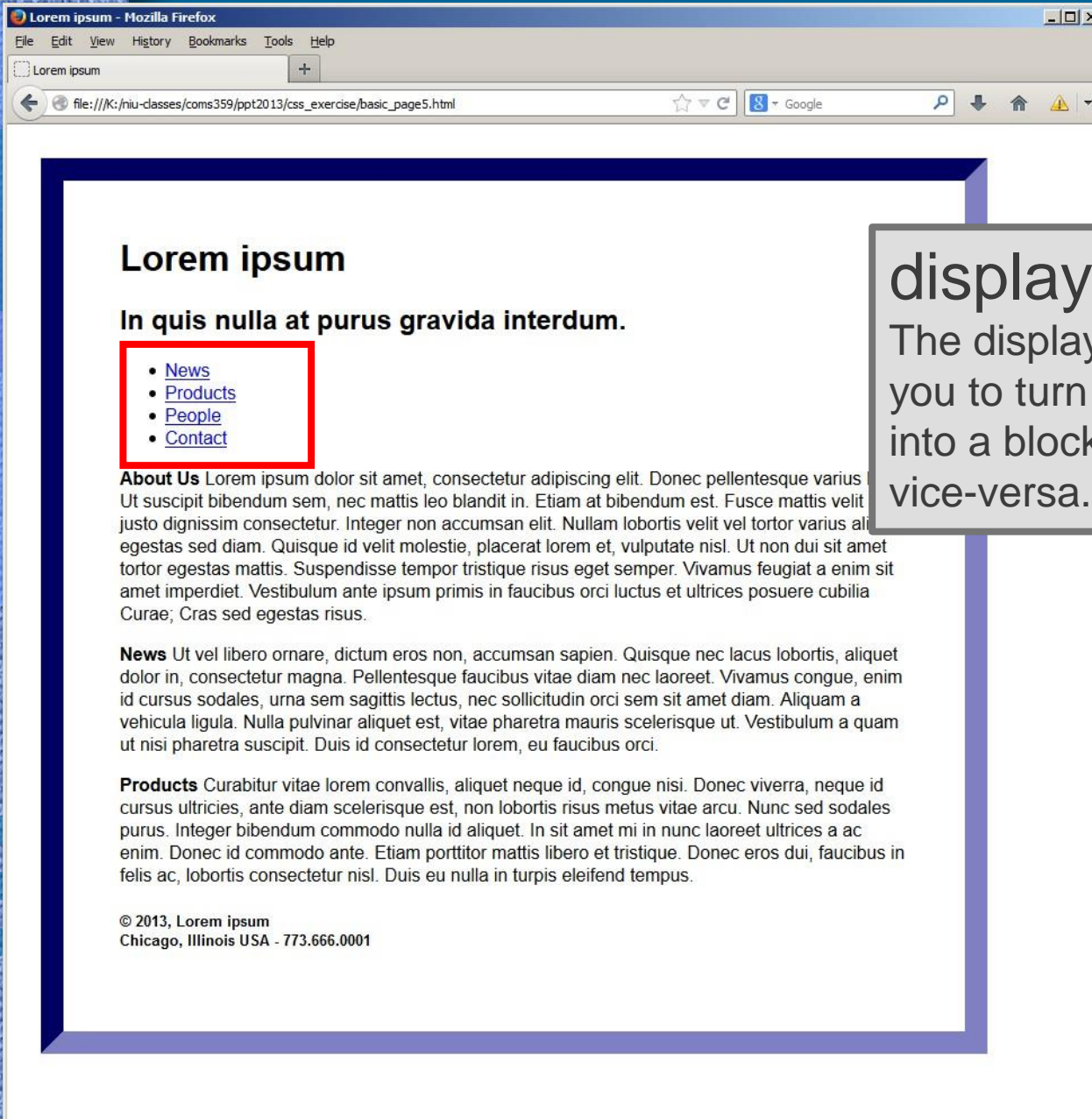
```
stylesheet2.css x basic_page5.html x
1 <html>
2 <head>
3 <title>Lorem ipsum</title>
4 <style type="text/css">
5
6     body
7     {font-family:arial;
8       width:700px;
9       border:inset;
10      border-width:20px;
11      border-color:#000088;
12
13      padding-top:120px;
14      padding-right:40px;
15      padding-bottom:10px;
16      padding-left:120px;
17      margin:30px;}
18
19 </style>
20
21 </head>
22 <body>
23
24 <h1>Lorem ipsum</h1>
```



## Shorthand notation

Values are in clockwise order:  
top, right, bottom, left

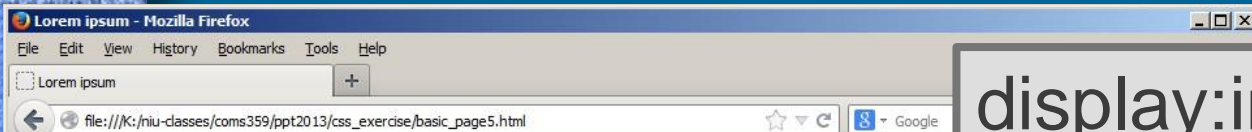
```
1 <html>
2   <head>
3     <title>Lorem ipsum</title>
4     <link href="text/css" type="text/css">
5     <style>
6       width:700px;
7       border:inset;
8       border-width:20px;
9       border-color:#000088;
10      padding:120px 40px 10px 120px;
11      margin:30px;
12    </style>
13  </head>
14  <body>
15    <h1>Lorem ipsum</h1>
16    <h2>In quis nulla at purus gravida interdum.</h2>
17    <ul>
```



## display

The display property allows you to turn an inline element into a block level element or vice-versa.





## display:inline

Causes a block-level element to act like an inline element

## display:block

Causes an inline element to act like a block-level element

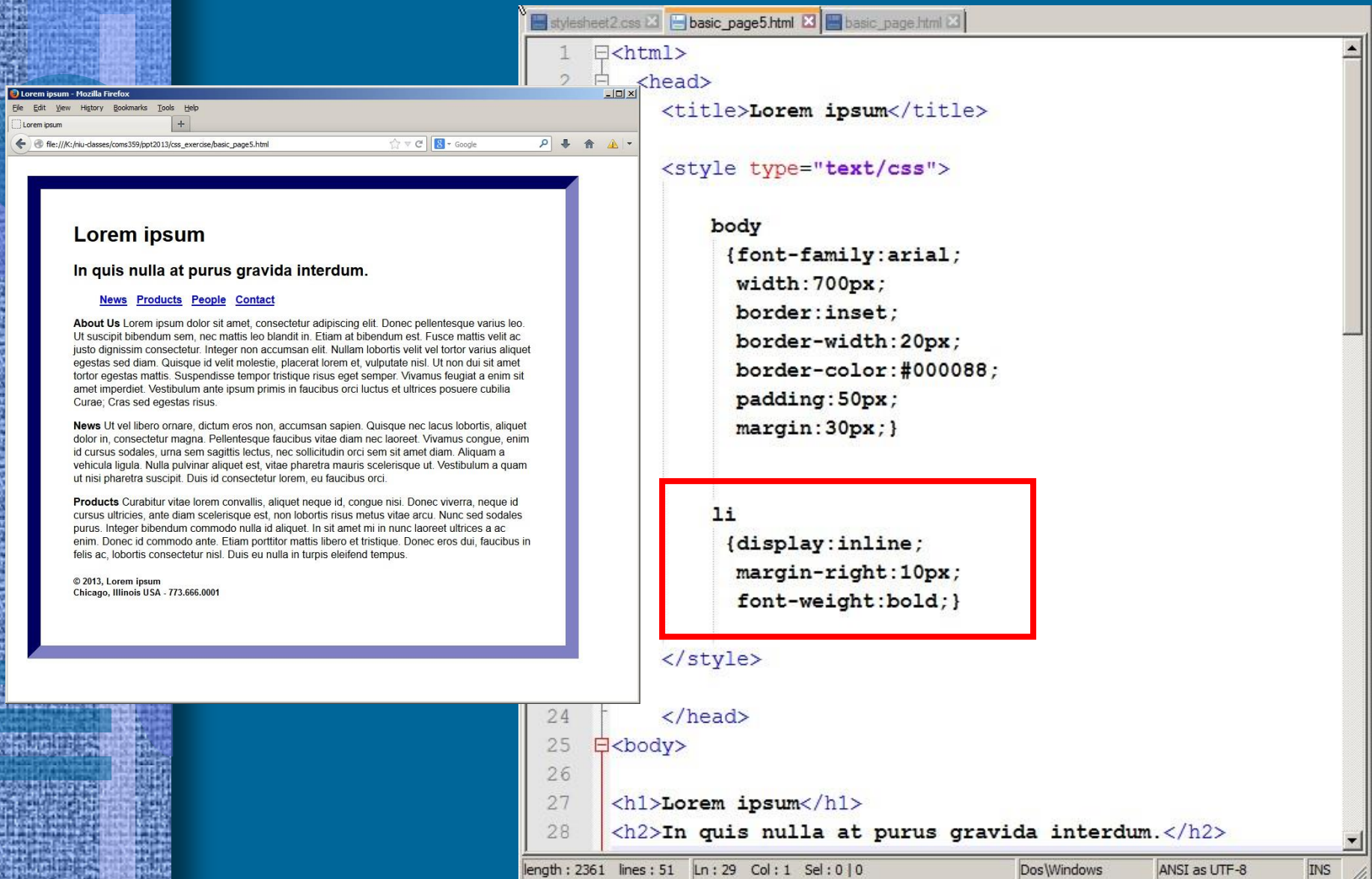
## display:inline-block

Causes a block-level element to flow like an inline element, while retaining other features of a block-level element

## display:none

Causes an element to be hidden and not displayed

# Exercise 3 – alter the display of the <li> element



The image shows a web browser window on the left and a code editor on the right. The browser displays a page titled "Lorem ipsum" with a blue border. The page content includes a header "Lorem ipsum", a sub-header "In quis nulla at purus gravida interdum.", and three paragraphs of Lorem ipsum text. The code editor shows the HTML and CSS for the page. The CSS for the `li` element is highlighted with a red box.

**Browser Window:**

- Title: Lorem ipsum - Mozilla Firefox
- Address bar: file:///K:/hiu-classes/oms359/ppt2013/css\_exercise/basic\_page5.html
- Page Content:
  - Header: Lorem ipsum
  - Sub-header: In quis nulla at purus gravida interdum.
  - Links: [News](#) [Products](#) [People](#) [Contact](#)
  - Paragraph 1: **About Us** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec pellentesque varius leo. Ut suscipit bibendum sem, nec mattis leo blandit in. Etiam at bibendum est. Fusce mattis velit ac justo dignissim consectetur. Integer non accumsan elit. Nullam lobortis velit vel tortor varius aliquet egestas sed diam. Quisque id velit molestie, placerat lorem et, vulputate nisi. Ut non dui sit amet tortor egestas mattis. Suspendisse tempor tristique risus eget semper. Vivamus feugiat a enim sit amet imperdiet. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Cras sed egestas risus.
  - Paragraph 2: **News** Ut vel libero ornare, dictum eros non, accumsan sapien. Quisque nec lacus lobortis, aliquet dolor in, consectetur magna. Pellentesque faucibus vitae diam nec laoreet. Vivamus congue, enim id cursus sodales, urna sem sagittis lectus, nec sollicitudin orci sem sit amet diam. Aliquam a vehicula ligula. Nulla pulvinar aliquet est, vitae pharetra mauris scelerisque ut. Vestibulum a quam ut nisi pharetra suscipit. Duis id consectetur lorem, eu faucibus orci.
  - Paragraph 3: **Products** Curabitur vitae lorem convallis, aliquet neque id, congue nisi. Donec viverra, neque id cursus ultricies, ante diam scelerisque est, non lobortis risus metus vitae arcu. Nunc sed sodales purus. Integer bibendum commodo nulla id aliquet. In sit amet mi in nunc laoreet ultrices a ac enim. Donec id commodo ante. Etiam porttitor mattis libero et tristique. Donec eros dui, faucibus in felis ac, lobortis consectetur nisi. Duis eu nulla in turpis eleifend tempus.
  - Footer: © 2013, Lorem ipsum  
Chicago, Illinois USA - 773.666.0001

**Code Editor:**

```
1 <html>
2 <head>
  <title>Lorem ipsum</title>
  <style type="text/css">
    body
    {font-family:arial;
     width:700px;
     border:inset;
     border-width:20px;
     border-color:#000088;
     padding:50px;
     margin:30px;}

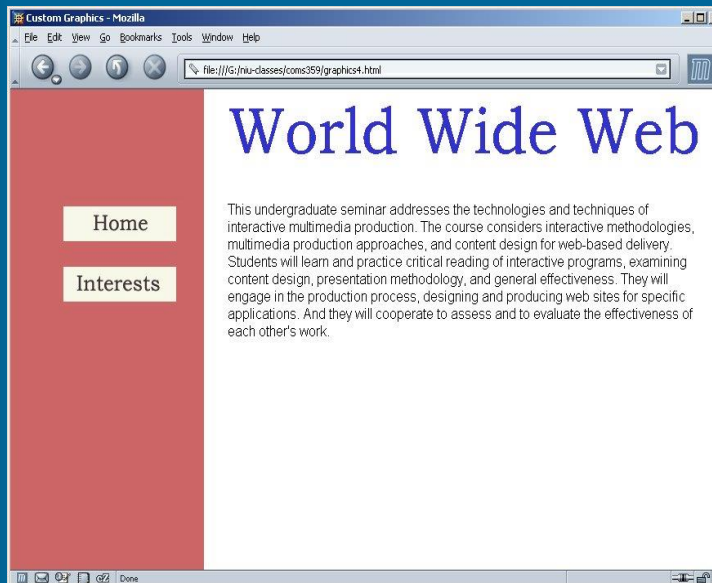
    li
    {display:inline;
     margin-right:10px;
     font-weight:bold;}
  </style>
</head>
24
25 <body>
26
27 <h1>Lorem ipsum</h1>
28 <h2>In quis nulla at purus gravida interdum.</h2>
```

length: 2361 lines: 51 Ln: 29 Col: 1 Sel: 0 | 0 Dos\Windows ANSI as UTF-8 INS

# CSS Layout

- Options for Page Layout

## Project #1



<table>

## Project #2



CSS positioning



# CSS Layout

- Positioning Schemes



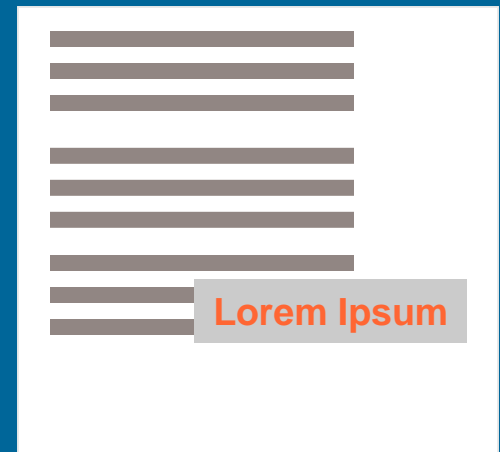
## Normal Flow

Every block element appears on a new line. New elements move down the page and do not flow around to the side. (default positioning)



## Relative Position

Moves an element to a new position defined in relation to where it would have sat in the normal flow of things.

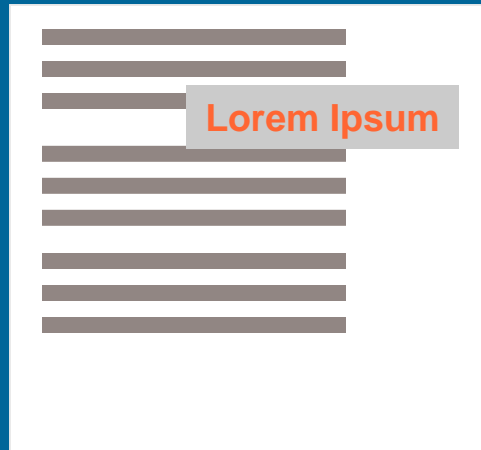


## Absolute Position

Box is taken out of normal flow and no longer affects the position of the other elements on the page.

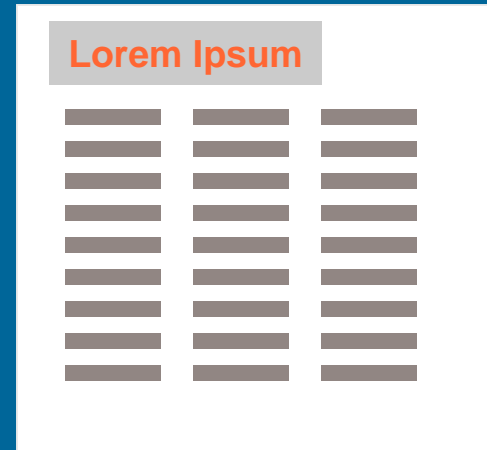
# CSS Layout

- Positioning Schemes



## Fixed Position

A form of absolute positioning that positions the element in relation to the browser window. Stays in the same fixed place when the user scrolls up or down the page.



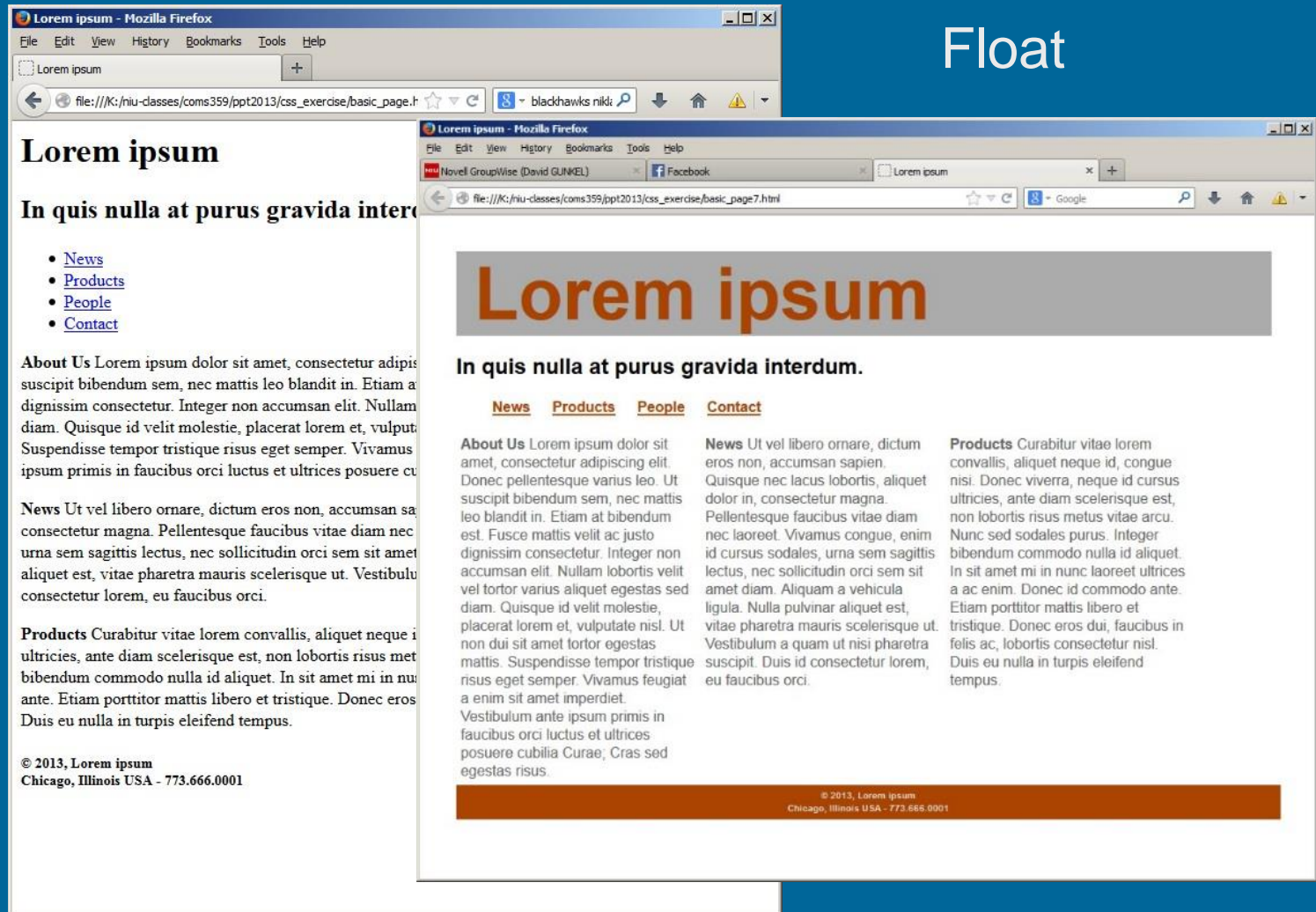
## Float

Takes an element out of the normal flow and allows subsequent elements to flow along side them. Useful for multiple columns.

# Exercise 4 – Use *float* to position elements side-by-side

## Normal Flow

## Float





## Exercise 4 – Use *float* to position elements side-by-side

```
<html>
<head>
  <title>Lorem ipsum</title>

  <link href="stylesheet4.css" type="text/css" rel="stylesheet">

</head>

<body>
```

```

pellentesque varius leo. Ut suscipit bibendum sem, nec mattis leo blandit in. Etiam at bibendum
est. Fusce mattis velit ac justo dignissim consectetur. Integer non accumsan elit. Nullam
lobortis velit vel tortor varius aliquet egestas sed diam. Quisque id velit molestie, placerat
lorem et, vulputate nisl. Ut non dui sit amet tortor egestas mattis. Suspendisse tunc tristique
risus eget semper. Vivamus feugiat a enim sit amet imperdiet. Vestibulum a quam ut nisi pharetra suscipit. Duis
faucibus orci luctus et ultrices posuere cubilia Curae; Cras sed

22
23 <p id="news"><b>News</b> Ut vel libero ornare, dictum eros non, a
lacus lobortis, aliquet dolor in, consectetur magna. Pellentesque
laoreet. Vivamus congue, enim id cursus sodales, urna sem sagitti
sem sit amet diam. Aliquam a vehicula ligula. Nulla pulvinar alic
scelerisque ut. Vestibulum a quam ut nisi pharetra suscipit. Duis
faucibus orci.</p>

24
25 <p><b>Products</b> Curabitur vitae lorem convallis, aliquet neque
neque id cursus ultricies, ante diam scelerisque est, non lobortis risus metus vitae arcu. Nunc
sed sodales purus. Integer bibendum commodo nulla id aliquet. In sit amet mi in nunc laoreet
ultrices a ac enim. Donec id commodo ante. Etiam porttitor mattis libero et tristique. Donec eros
dui, faucibus in felis ac, lobortis consectetur nisl. Duis eu nulla in turpis eleifend tempus.</p>

26
27 <h5>
28 <copy> 2013, Lorem ipsum<br>
29 Chicago, Illinois USA - 773.666.0001
30 </h5>
31
32 </body>
33 </html>
34
```

### 1. <link>

Add a <link> tag to the basic HTML document. Set the value of the href to “stylesheet4.css”

## 2. Stylesheet

Make a new CSS document.  
Save as "stylesheet4.css"

```
1
2 body
3   {font-family:arial;
4     padding:10px;
5     margin:30px;}
6
7 h1
8   {color:#aa4400;
9     font-size:80px;
10    background-color:#ababab;
11    margin:2px;}
12
13 li
14   {display:inline;
15     margin-right:20px;
16     font-weight:bold;}
17
18 a {color:#aa4400;}
19
20 p
21   {float:left;
22     width:33%;
23     padding:10px;
24     box-sizing: border-box;}
25
26 h5
27   {width:100%;
28     clear:left;
29     background-color:#aa4400;
30     color:#dcdcdc;
31     font-size:10px;
32     text-align:center;
33     padding:5px;}
34
```

```
1
2 body
3   {font-family:arial;
4     padding:10px;
5     margin:30px;}
6
7 h1
8   {color:#aa4400;
9     font-size:80px;
10    background-color:#ababab;
11    margin:2px;}
12
13 li
14   {display:inline;
15     margin-right:20px;
16     font-weight:bold;}
17
18 a {color:#aa4400;}
19
20 p
21   {float:left;
22     width:33%;
23     padding:10px;
24     box-sizing: border-box;}
25
26 h5
27   {width:100%;
28     clear:left;
29     background-color:#aa4400;
30     color:#dcdcdc;
31     font-size:10px;
32     text-align:center;
33     padding:5px;}
34
```

Apply **float:left** to all <p> elements. This will produce three columns of text and each column will take up 1/3 (or 33%) of the page width.

Add **box-sizing:border-box** to all <p> elements. This ensures that the size (height & width) of the paragraphs are uniform.

Apply **clear:left** to the <h5> footer element. This will prevent the footer from flowing around to the right of the floated <p> elements and return it to normal flow positioning.



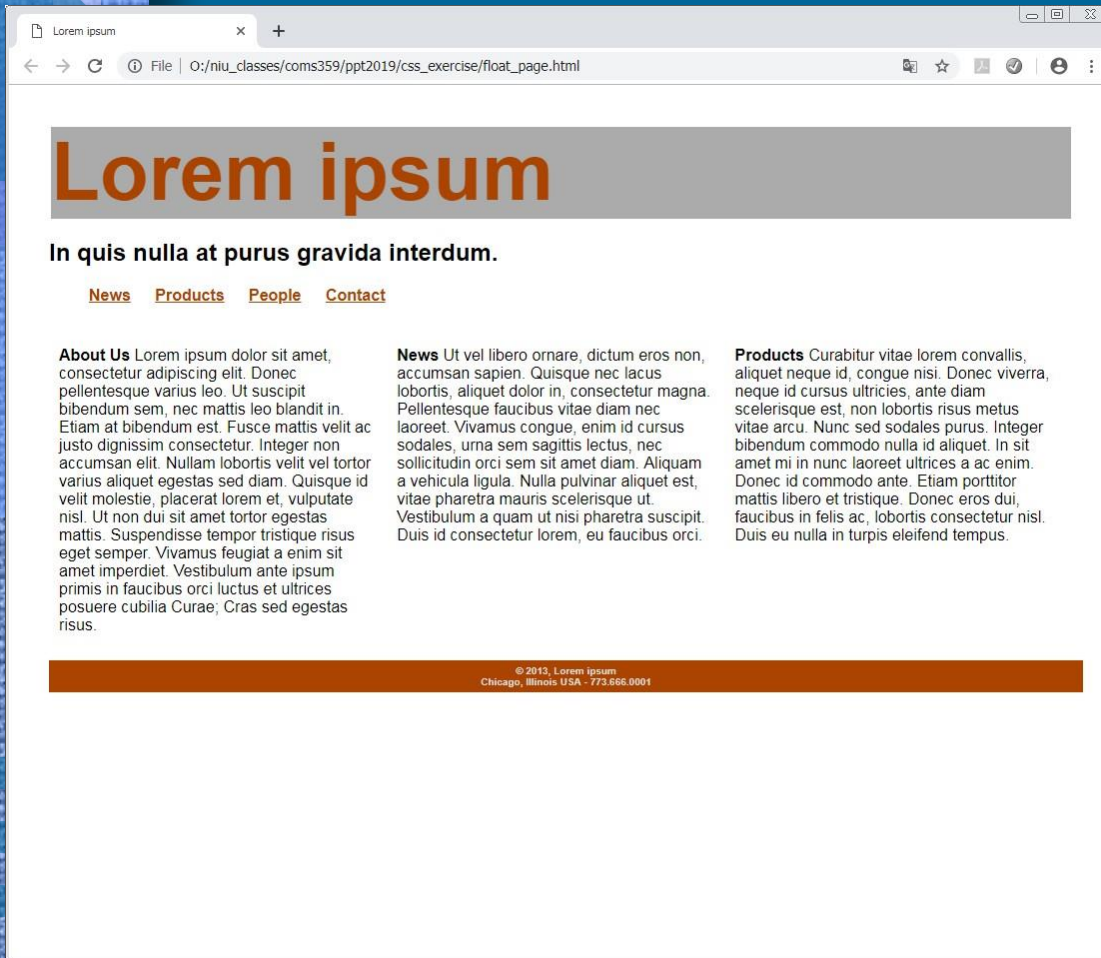
```

1
2 body
3   {font-family:arial;
4     padding:10px;
5     margin:30px;}
6
7 h1
8   {color:#aa4400;
9     font-size:80px;
10    background-color:#ababab;
11    margin:2px;}
12
13 li
14   {display:inline;
15     margin-right:20px;
16     font-weight:bold;}
17
18 a {color:#aa4400;}
19
20 p
21   {float:left;
22     width:33%;
23     padding:10px;
24     box-sizing: border-box;}
25
26 h5
27   {width:100%;
28     clear:left;
29     background-color:#aa4400;
30     color:#dcdcdc;
31     font-size:10px;
32     text-align:center;
33     padding:5px;}
34

```



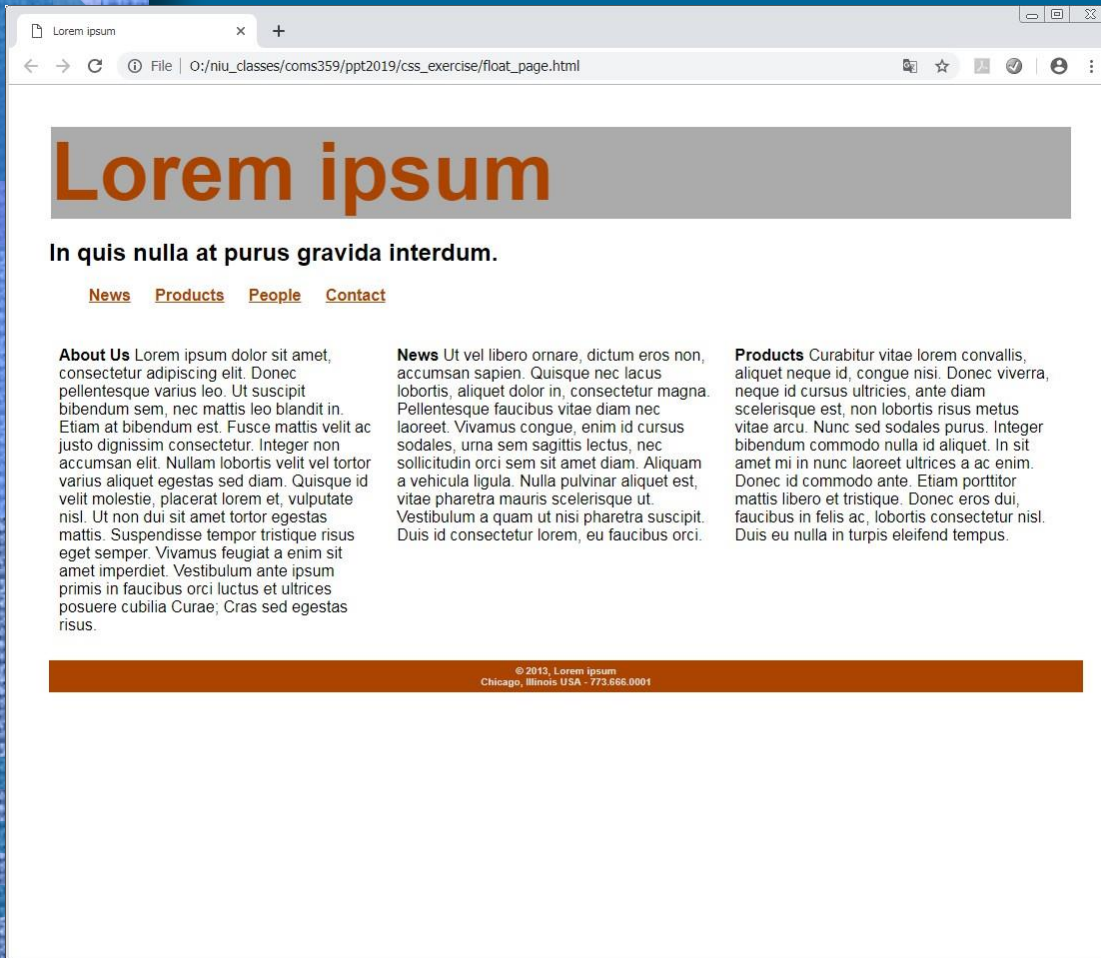
# Problem: Does not scale to small screen sizes





# Problem: Does not scale to small screen sizes

## Solution: “Responsive CSS”





```

2 <head>
3   <title>Lorem ipsum</title>
4   <link href="responsive.css" type="text/css" rel="stylesheet">
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6 </head>

```

Make 2 modifications to the <head> of the HTML document:

- 1) Change the name of the stylesheet to **responsive.css**
- 2) Add a **viewport** <meta> tag. This sets the width of the page to screen-width of the device. It allows the page to scale to different screen widths.

```

10 <h2>In quis nulla at purus gravida interdum.</h2>
11
12 <ul>
13   <li><a href="news.html">News</a></li>
14   <li><a href="products.html">Products</a></li>
15   <li><a href="people.html">People</a></li>
16   <li><a href="contact.html">Contact</a></li>
17 </ul>
18
19 <div class="row">
20 <div class="column"><b>About Us</b> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut suscipit bibendum sem, nec dignissim consectetur. Integer non accumsan. Quisque id velit molestie, placerat lorem tempor tristique risus eget semper. Vivamus faucibus orci luctus et ultrices posuere cubilia Curae; Cras sed egestas risus.</div>
21
22 <div class="column"><b>News</b> Ut vel libero ornare, dictum eros non, accumsan sapien. Quisque nec lacus lobortis, aliquet dolor in, consectetur magna. Pellentesque faucibus vitae diam nec laoreet. Vivamus congue, enim id cursus sodales, urna sem sagittis lectus, nec sollicitudin orci sem sit amet diam. Aliquam a vehicula ligula. Nulla pulvinar aliquet est, vitae pharetra mauris scelerisque ut. Vestibulum a quam ut nisi pharetra suscipit. Duis id consectetur lorem, eu faucibus orci.</div>
23
24 <div class="column"><b>Products</b> Curabitur vitae lorem convallis, aliquet neque id, congue nisi. Donec viverra, neque id cursus ultricies, ante diam scelerisque est, non lobortis risus metus vitae arcu. Nunc sed sodales purus. Integer bibendum commodo nulla id aliquet. In sit amet mi in nunc laoreet ultrices a ac enim. Donec id commodo ante. Etiam porttitor mattis libero et tristique. Donec eros dui, faucibus in felis ac, lobortis consectetur nisl. Duis eu nulla in turpis eleifend tempus.</div>
25 </div>
26
27 <h5>
28 &copy; 2013, Lorem ipsum<br>
29 Chicago, Illinois USA - 773.666.0001
30 </h5>
31
32 </body>
33 </html>

```

```

1  <html>
2  <head>
3    <title>Lorem ipsum</title>
4    <link href="responsive.css" type="text/css" rel="stylesheet">
5    <meta name="viewport" content="width=device-width, initial-scale=1">
6  </head>
7  <body>
8
9  <h1>Lorem ipsum</h1>
10 <h2>In quis nulla at purus gravida interdum.</h2>
11
12 <ul>
13   <li><a href="news.html">News</a></li>
14   <li><a href="products.html">Products</a></li>
15   <li><a href="people.html">People</a></li>
16   <li><a href="contact.html">Contact</a></li>
17 </ul>
18
19 <div class="row">
20   <div class="column"><b>About Us</b> Lorem ipsum
    varius leo. Ut suscipit bibendum sem, nec matti
    dignissim consectetur. Integer non accumsan eli
    Quisque id velit molestie, placerat lorem et, v
    tempor tristique risus eget semper. Vivamus feugiat a enim sit amet imperdiet. Vestibulum ante ipsum primis in
    faucibus orci luctus et ultrices posuere cubilia Curae; Cras sed egestas risus.</div>
21
22   <div class="column"><b>News</b> Ut vel libero ornare, dictum eros non, accumsan sapien. Quisque nec lacus lobortis,
    aliquet dolor in, consectetur magna. Pellentesque faucibus vitae diam nec laoreet. Vivamus congue, enim id cursus
    sodales, urna sem sagittis lectus, nec sollicitudin orci sem sit amet diam. Aliquam a vehicula ligula. Nulla pulvinar
    aliquet est, vitae pharetra mauris scelerisque ut. Vestibulum a quam ut nisi pharetra suscipit. Duis id consectetur
    lorem, eu faucibus orci.</div>
23
24   <div class="column"><b>Products</b> Curabitur vitae lorem convallis, aliquet neque id, congue nisi. Donec viverra,
    neque id cursus ultricies, ante diam scelerisque est, non lobortis risus metus vitae arcu. Nunc sed sodales purus.
    Integer bibendum commodo nulla id aliquet. In sit amet mi in nunc laoreet ultrices a ac enim. Donec id commodo ante.
    Etiam porttitor mattis libero et tristique. Donec eros dui, faucibus in felis ac, lobortis consectetur nisl. Duis eu
    nulla in turpis eleifend tempus.</div>
25 </div>
26
27 <h5>
28 &copy; 2013, Lorem ipsum<br>
29 Chicago, Illinois USA - 773.666.0001
30 </h5>
31
32 </body>
33 </html>

```

Make modifications to the <body> of the HTML document:

Add a <div class="row"> tag prior to the three paragraphs.

Close the </div> after the paragraphs (line 25).



```

1 <html>
2 <head>
3 <title>Lorem ipsum</title>
4 <link href="responsive.css" type="text/css" rel="stylesheet">
5 <meta name="viewport" content="width=device-width, initial-scale=1">
6 </head>
7 <body>
8
9 <h1>Lorem ipsum</h1>
10 <h2>In quis nulla at purus gravida interdum.</h2>
11
12 <ul>
13 <li><a href="news.html">News</a></li>
14 <li><a href="products.html">Products</a></li>
15 <li><a href="people.html">People</a></li>
16 <li><a href="contact.html">Contact</a></li>
17 </ul>
18
19 <div class="column">
20 <div class="column"><b>About Us</b></div> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut suscipit bibendum sem, neque
21 dignissim consectetur. Integer non accumsan sapien. Quisque id velit molestie, placerat lorem et, vulputate nisl. Ut non dui sit amet tortor egestas mattis. Suspendisse
22 tempor tristique risus eget semper. Vivamus feugiat a enim sit amet imperdiet. Vestibulum ante ipsum primis in
23 faucibus orci luctus et ultrices posuere cubilia Curae; Cras sed egestas risus.</div>
24
25 <div class="column"><b>News</b></div> Ut vel libero ornare, dictum eros non, accumsan sapien. Quisque nec lacus lobortis,
26 ultrices id, consectetur magna. Pellentesque faucibus vitae diam nec laoreet. Vivamus congue, enim id cursus
27 sodales, urna sem sagittis lectus, nec sollicitudin orci sem sit amet diam. Aliquam a vehicula ligula. Nulla pulvinar
28 aliquet est, vitae pharetra mauris scelerisque ut. Vestibulum a quam ut nisi pharetra suscipit. Duis id consectetur
29 lorem, eu faucibus orci.</div>
30
31 <div class="column"><b>Products</b></div> Curabitur vitae lorem convallis, aliquet neque id, congue nisi. Donec viverra,
32 neque id cursus ultricies, ante diam scelerisque est, non lobortis risus metus vitae arcu. Nunc sed sodales purus.
33 Integer bibendum commodo nulla id aliquet. In sit amet mi in nunc laoreet ultrices a ac enim. Donec id commodo ante.
34 Etiam porttitor mattis libero et tristique. Donec eros dui, faucibus in felis ac, lobortis consectetur nisl. Duis eu
35 nulla in turpis eleifend tempus.</div>
36
37 </div>
38
39 <h5>
40 &copy; 2013, Lorem ipsum<br>
41 Chicago, Illinois USA - 773.666.0001
42 </h5>
43
44 </body>
45 </html>

```

Replace the three <p> tags with <div class="column">

Close the </div> at the end of each paragraphs.



```

1 <html>
2   <head>
3     <title>Lorem ipsum</title>
4     <link href="responsive.css" type="text/css" rel="stylesheet">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6   </head>
7   <body>
8
9   <h1>Lorem ipsum</h1>
10  <h2>In quis nulla at purus gravida interdum.</h2>
11
12  <ul>
13    <li><a href="news.html">News</a></li>
14    <li><a href="products.html">Products</a></li>
15    <li><a href="people.html">People</a></li>
16    <li><a href="contact.html">Contact</a></li>
17  </ul>
18
19  <div class="row">
20    <div class="column"><b>About Us</b> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec pellentesque
    varius leo. Ut suscipit bibendum sem, nec mattis leo blandit in. Etiam at bibendum est. Fusce mattis velit ac justo
    dignissim consectetur. Integer non accumsan elit. Nullam lobortis velit vel tortor varius aliquet egestas sed diam.
    Quisque id velit molestie, placerat lorem et, vulputate nisl. Ut non dui sit amet tortor egestas mattis. Suspendisse
    tempor tristique risus eget semper. Vivamus feugiat a enim sit amet imperdiet. Vestibulum ante ipsum primis in
    faucibus orci luctus et ultrices posuere cubilia Curae; Cras sed egestas risus.</div>
21
22    <div class="column"><b>News</b> Ut vel libero ornare, dictum eros non, accumsan sapien. Quisque nec lacus lobortis,
    aliquet dolor in, consectetur magna. Pellentesque faucibus vitae diam nec laoreet. Vivamus congue, enim id cursus
    sodales, urna sem sagittis lectus, nec sollicitudin orci sem sit amet diam. Aliquam a vehicula ligula. Nulla pulvinar
    aliquet est, vitae pharetra mauris scelerisque ut. Vestibulum a quam ut nisi pharetra suscipit. Duis id consectetur
    lorem, eu faucibus orci.</div>
23
24    <div class="column"><b>Products</b> Curabitur vitae lorem convallis, aliquet neque id, congue nisi. Donec viverra,
    neque id cursus ultricies, ante diam scelerisque est, non lobortis risus metus vitae arcu. Nunc sed sodales purus.
    Integer bibendum commodo nulla id aliquet. In sit amet mi in nunc laoreet ultrices a ac enim. Donec id commodo ante.
    Etiam porttitor mattis libero et tristique. Donec eros dui, faucibus in felis ac, lobortis consectetur nisl. Duis eu
    nulla in turpis eleifend tempus.</div>
25  </div>
26
27  <h5>
28  &copy; 2013, Lorem ipsum<br>
29  Chicago, Illinois USA - 773.666.0001
30  </h5>
31
32  </body>
33  </html>

```

Save the modified document as  
**responsive\_page.html**

```
1
2 body
3 {font-family:arial;
4   padding:10px;
5   margin:30px;}
6
7 h1
8 {color:#aa4400;
9   font-size:80px;
10  background-color:#ababab;
11  margin:2px;}
12
13 li
14 {display:inline;
15   margin-right:20px;
16   font-weight:bold;}
17
18 a {color:#aa4400;}
19
20 p
21 {float:left;
22   width:33%;
23   padding:10px;
24   box-sizing: border-box;}
25
26 h5
27 {width:100%;
28   clear:left;
29   background-color:#aa4400;
30   color:#dcdcdc;
31   font-size:10px;
32   text-align:center;
33   padding:5px;}
34
35
36
37
38
39
40
41
42
43
44
```

Modify the CSS document:  
Delete everything after line 20.

```
1
2 body
3   {font-family:arial;
4     padding:10px;
5     margin:30px;}
6
7 h1
8   {color:#aa4400;
9     font-size:80px;
10    background-color:#ababab;
11    margin:2px;}
12
13 li
14   {display:inline;
15     margin-right:20px;
16     font-weight:bold;}
17
18 a {color:#aa4400;}
```



```

1 body
2 {font-family:arial;
3   padding:10px;
4   margin:30px;}
5
6
7 h1
8 {color:#aa4400;
9   font-size:80px;
10  background-color:#ababab;
11  margin:2px;}
12
13 li
14 {display:inline;
15   margin-right:20px;
16   font-weight:bold;}
17
18 a {color:#aa4400;}
19
20 .column
21 {float:left;
22   width:33%;
23   padding:10px;
24   box-sizing:border-box;}
25
26 .row:after
27 {content:"";
28   display:table;
29   clear:both;}
30
31 @media screen and (max-width: 600px)
32 {
33   .column
34   {width: 100%;}
35 }
36
37 h5
38 {width:100%;
39   clear:left;
40   background-color:#aa4400;
41   color:#dcdcdc;
42   font-size:10px;
43   text-align:center;
44   padding:5px;}

```

The class **column** replaces the `<p>`. Float the three `<div class="column">` to the left, give them a width of 33%, and apply the **box-sizing:border-box**

```

1 body
2 {font-family:arial;
3   padding:10px;
4   margin:30px;}
5
6
7 h1
8 {color:#aa4400;
9   font-size:80px;
10  background-color:#ababab;
11  margin:2px;}
12
13 li
14 {display:inline;
15   margin-right:20px;
16   font-weight:bold;}
17
18 a {color:#aa4400;}
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20 .column
21 {float:left;
22   width:33%;
23   padding:10px;
24   box-sizing:border-box;}
25
26 .row:after
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31 @media screen and (max-width: 600px)
32 {
33   .column
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35 }
36
37 h5
38 {width:100%;
39   clear:left;
40   background-color:#aa4400;
41   color:#dcdcdc;
42   font-size:10px;
43   text-align:center;
44   padding:5px;}

```

The class **row:after** clears the float before and after the columns. This ensures that the page title and navigation links do not float like the columns.

```

1 body
2 {font-family:arial;
3   padding:10px;
4   margin:30px;}
5
6
7 h1
8 {color:#aa4400;
9   font-size:80px;
10  background-color:#ababab;
11  margin:2px;}
12
13 li
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40   background-color:#aa4400;
41   color:#dcdcdc;
42   font-size:10px;
43   text-align:center;
44   padding:5px;}

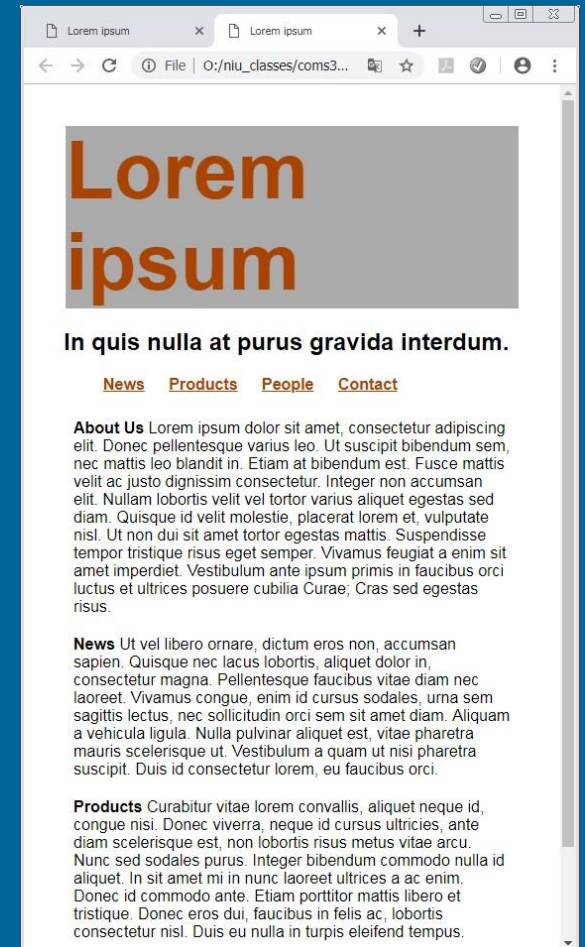
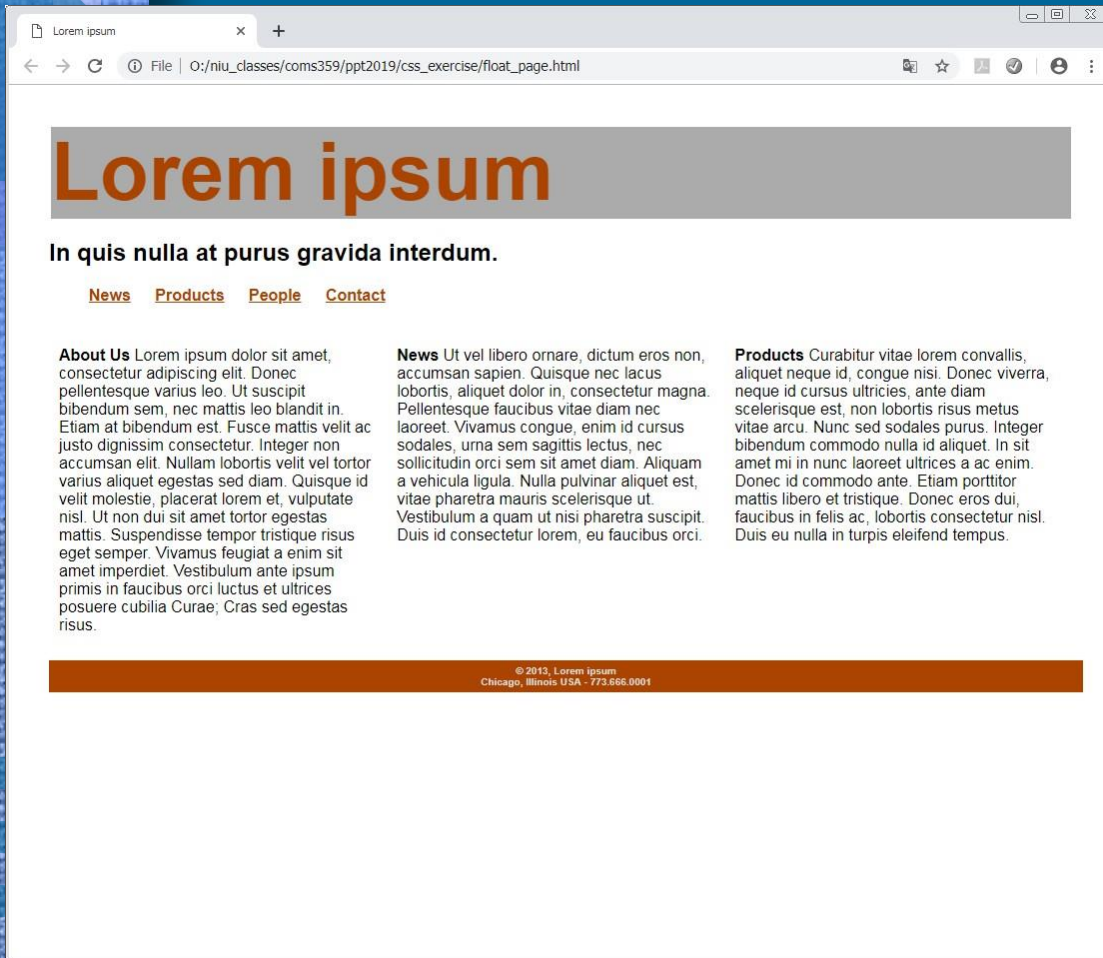
```

The **@media** rule is used to apply different styles for different media types/devices. When the screen size of the device has a **max-width** of **600px**, then **.column** class has a width of 100% instead of 33%. This has the effect of stacking the columns, when the page is displayed on a device with a screen width less than 600px.



```
1
2 body
3   {font-family:arial;
4     padding:10px;
5     margin:30px;}
6
7 h1
8   {color:#aa4400;
9     font-size:80px;
10    background-color:#ababab;
11    margin:2px;}
12
13 li
14   {display:inline;
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31 @media screen and (max-width: 600px)
32   {
33     .column
34       {width: 100%;}
35   }
36
37 h5
38   {width:100%;
39     clear:left;
40     background-color:#aa4400;
41     color:#dcdcdc;
42     font-size:10px;
43     text-align:center;
44     padding:5px;}
```

Save as  
responsive.css



# Preview

- HTML Forms
  - Duckett - ch. 7 (pp. 144-174)

The Super Fantastic Order Form - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

file:///C:/1-DavidStuff/niu-classes/coms469/spring2006/ppt2006/class04/benefits\_worksheet

## Employee Benefits Worksheet

**Information**

Status: ☐ Full Time ☐ Part Time

Annual Salary: \$

Start Date:  month  day  year

**Health Insurance Plans**

Provider	Cost	Number of Dependents	Cost
Acme Health Alliance	\$99.42/month	<input type="text" value="0"/>	<input type="text"/>
Humana HMO/PPT	\$125.12/month	<input type="text" value="0"/>	<input type="text"/>
Cheap-Ass Health Plan	\$25.89/month	<input type="text" value="0"/>	<input type="text"/>

**Life Insurance Plans**

Provider	Coverage Options	Cost
Standard Old Life, Inc.	<input type="text" value="1x annual salary"/>	<input type="text"/>

Total

Done