

Page layout

- Possibility to control page layout without needing to use presentation markup
- CSS layout has a rather undeserved reputation of being difficult
 - Mostly due to a proliferation of different layout techniques available on the Web
- Tasks
 - Horizontally centering a design on a page
 - Creating two- and three-column float-based layouts
 - Creating fixed-width, liquid, and elastic layouts
 - Making columns stretch to the full height of the available space

Centering a design

- Long lines of text can be difficult and unpleasant to read
- Rather than spanning the full width of the screen, centered designs span only a portion of the screen, creating shorter and easier-to-read line lengths
- Two basic methods
 - Use auto margins
 - Use positioning and negative margins

Auto margins

- Define the width of the wrapper div
- Set the horizontal margin to auto

```
<body>
<div id="wrapper">
</div>
</body>
```

```
#wrapper {
width: 720px;
margin: 0 auto;
}
```

- The most common approach
- IE 5.x and IE 6 do not support auto margins

```
body {
text-align: center;
}
#wrapper {
width: 720px;
margin: 0 auto;
text-align: left;
}
```

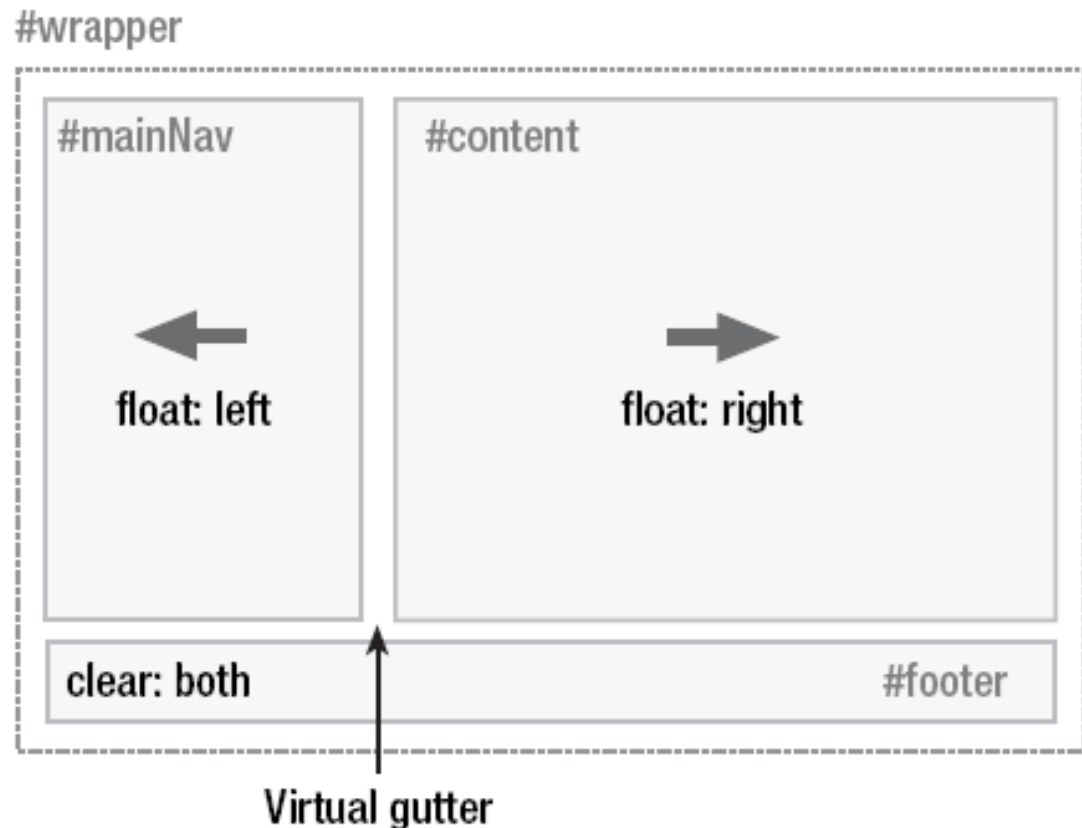


Float-based layouts

- Simply set the width of the elements you want to position, and then float them left or right
- Two-column floated layout
- Three-column floated layout

Two-column floated layout

- Create a virtual gutter by floating one element left and one element right



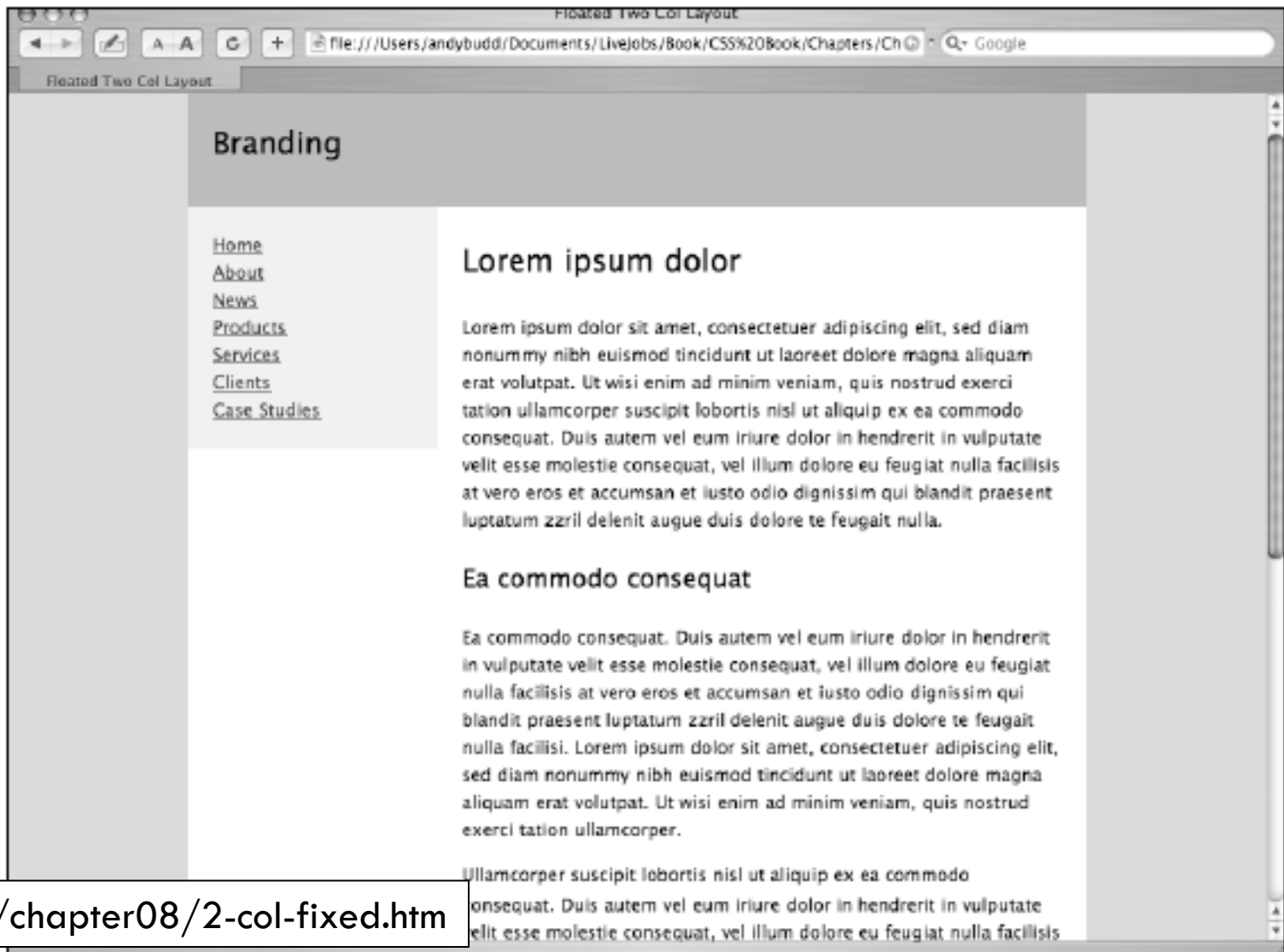
Two-column floated layout

```
#content {  
width: 520px;  
float: right;  
}  
#mainNav {  
width: 180px;  
float: left;  
}  
#footer {  
clear: both;  
}
```

- **Better: add horizontal padding**

```
#mainNav {  
padding-top: 20px;  
padding-bottom: 20px;  
}  
#mainNav li {  
padding-left: 20px;  
padding-right: 20px;  
}  
#content h1, #content h2,  
    #content p {  
padding-right: 20px;  
}
```

Two-column floated layout



Examples/chapter08/2-col-fixed.htm

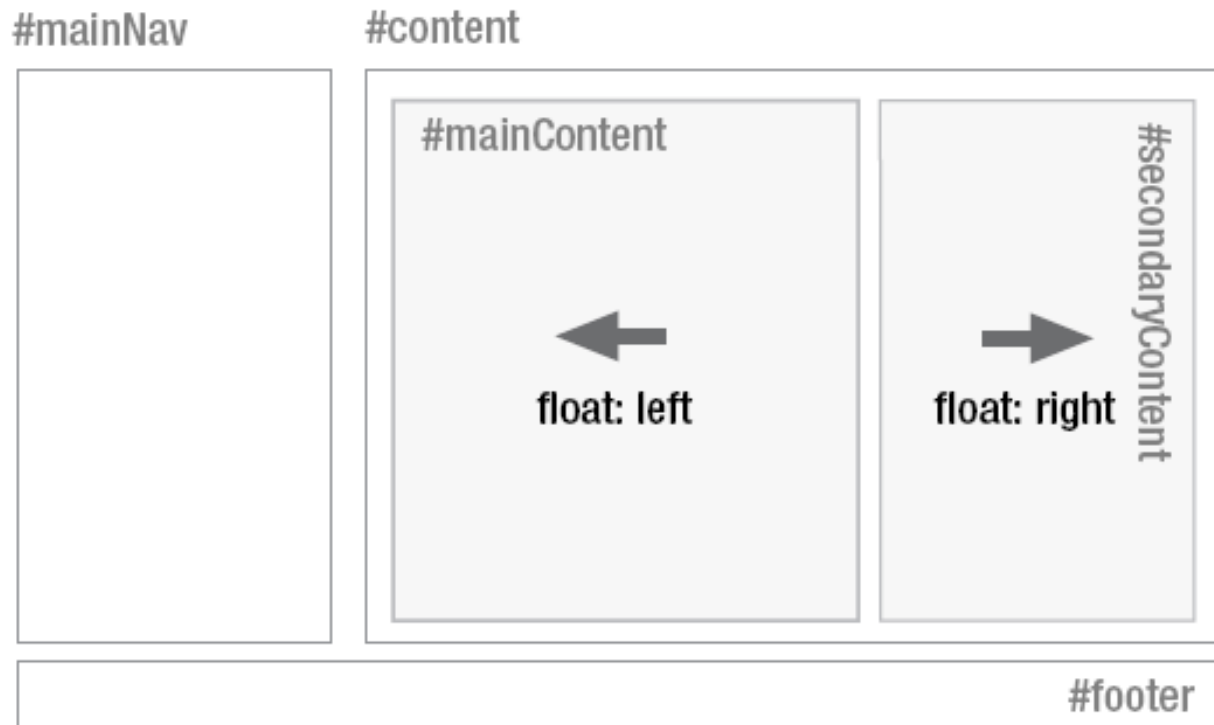
Three-column floated layout

- (X)HTML framework
 - similar to the two column layout, but two new divs inside the content div

```
<div id="content">  
  <div id="mainContent">  
    ...  
  </div>  
  <div id="secondaryContent">  
    ...  
  </div>  
</div>
```


Three-column floated layout

- Float the main content left and the secondary content right, inside the already floated content div
 - Divides the second content column in two, creating a three-column effect



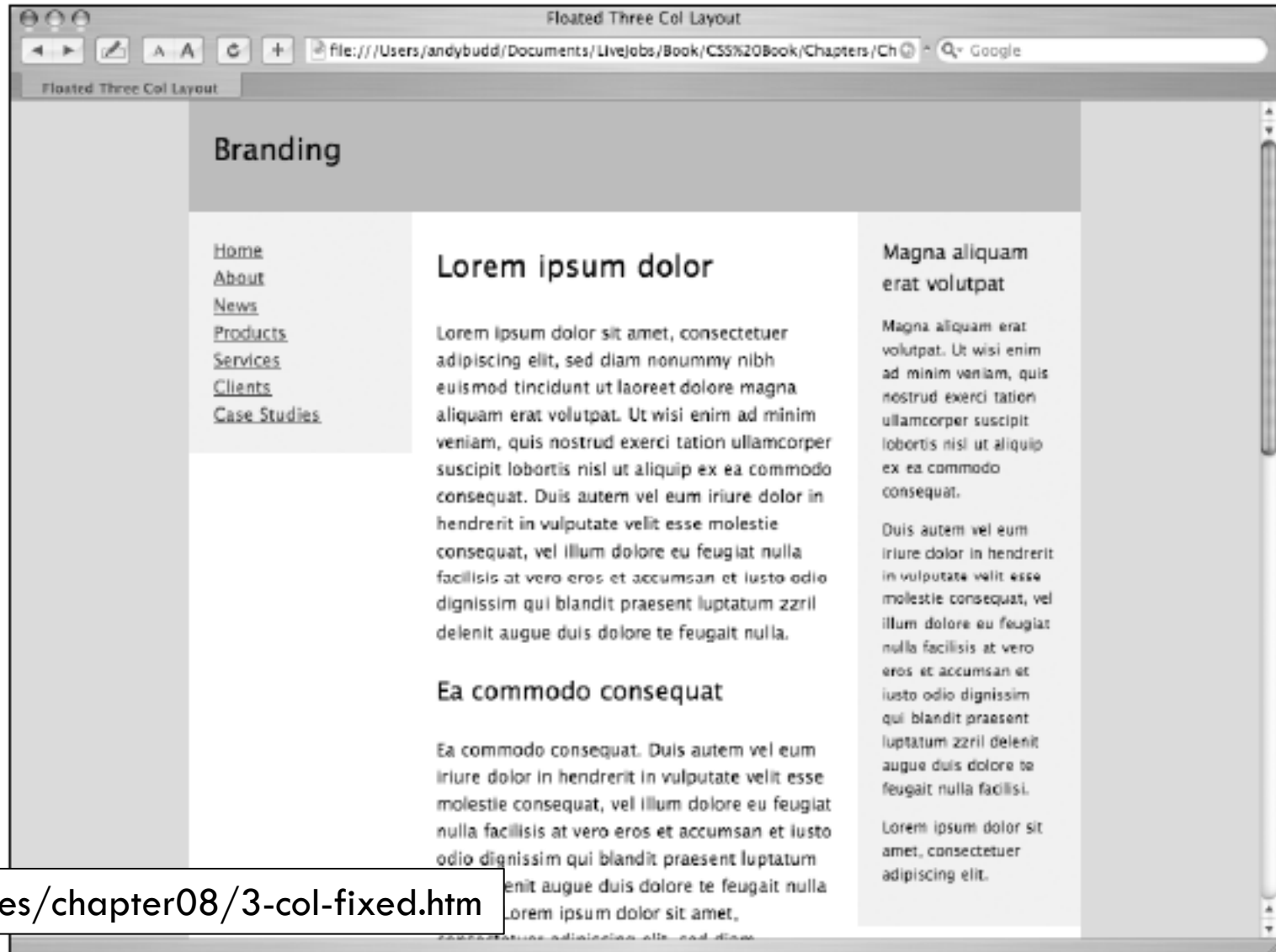
Three-column floated layout

```
#mainContent {  
width: 320px;  
float: left;  
}  
#secondaryContent {  
width: 180px;  
float: right;  
}
```

- Better: remove the padding from the content element and apply it to the content of the secondary content

```
#secondaryContent h1, #secondaryContent h2,  
    #secondaryContent p {  
padding-left: 20px;  
padding-right: 20px;  
}
```

Three-column floated layout



Examples/chapter08/3-col-fixed.htm

Fixed-width, liquid, and elastic layout

- Fixed-width layout
 - Column widths defined in pixels
 - Very common as they give the developer more control over layout and positioning
- Downsides
 - Do not make good use of the available space: columns are always the same size no matter the window size
 - Usually work well with the browser default text size, but if you increase the text size a couple of steps, sidebars start running out of space and the line lengths get too short to comfortably read

Liquid layouts

- Dimensions are set using percentages instead of pixels
 - Very efficient use of space
- If the design spans the entire width of the browser window, line lengths can become long and difficult to read
 - Solution: make the wrapper span just a percentage,
e.g. 85 percent

```
#wrapper {  
width: 85%;  
}
```

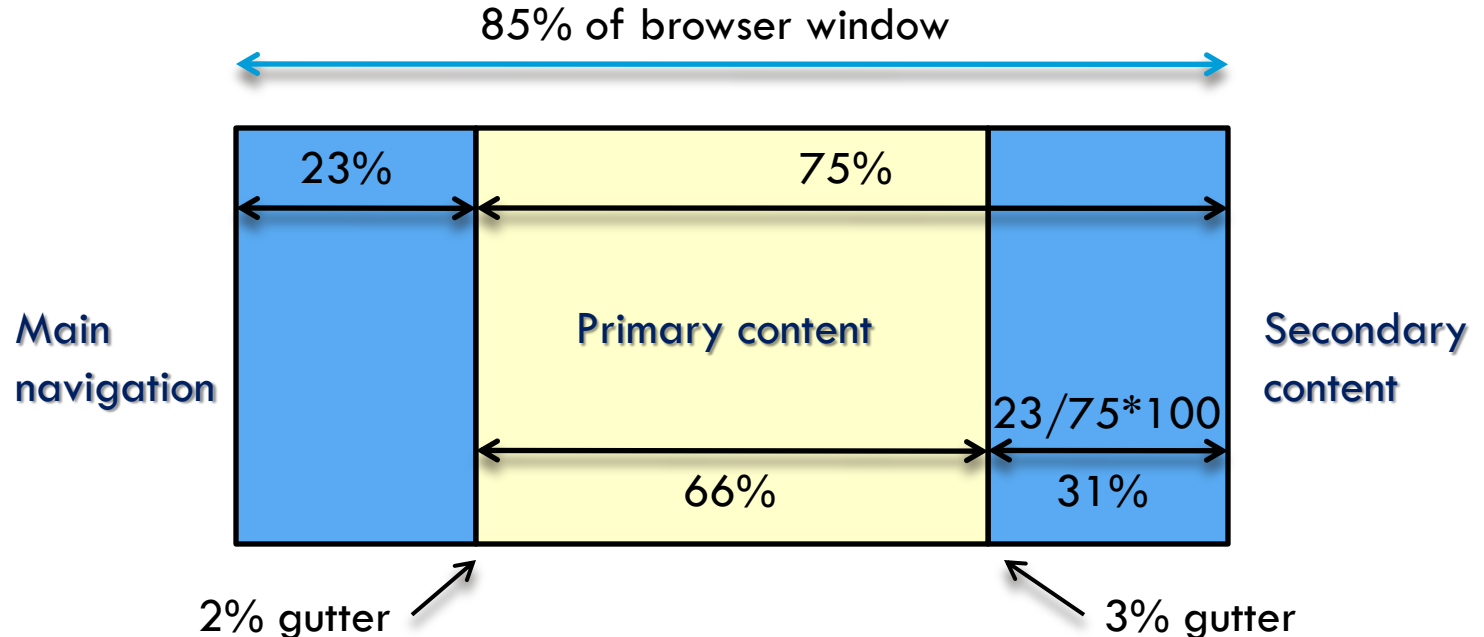
Liquid layouts

- Set the width of the navigation and content areas as a percentage of the wrapper width
 - 2-percent virtual gutter between the navigation and the wrapper to deal with any rounding errors and width irregularities that may occur

```
#wrapper {  
width: 85%;  
}  
#mainNav {  
width: 23%;  
float: left;  
}  
#content {  
width: 75%;  
float: right;  
}
```

Liquid layouts

- The widths of the content divs are based on the width of the content element and not the overall wrapper
 - Width of secondary content area = width of the main navigation area?



Liquid layouts

- 3 columns liquid layout

```
#wrapper {  
width: 85%;  
}  
#mainNav {  
width: 23%;  
float: left;  
}  
#content {  
width: 75%;  
float: right;  
}
```

```
#mainContent {  
width: 66%;  
float: left;  
}  
#secondaryContent {  
width: 31%;  
float: right;  
}
```


Three columns liquid layout

