

HTML & CSS FOR BEGINNERS

Girl Develop IT Pittsburgh

Lindsey Bieda & Julie Pagano

WEEK #3

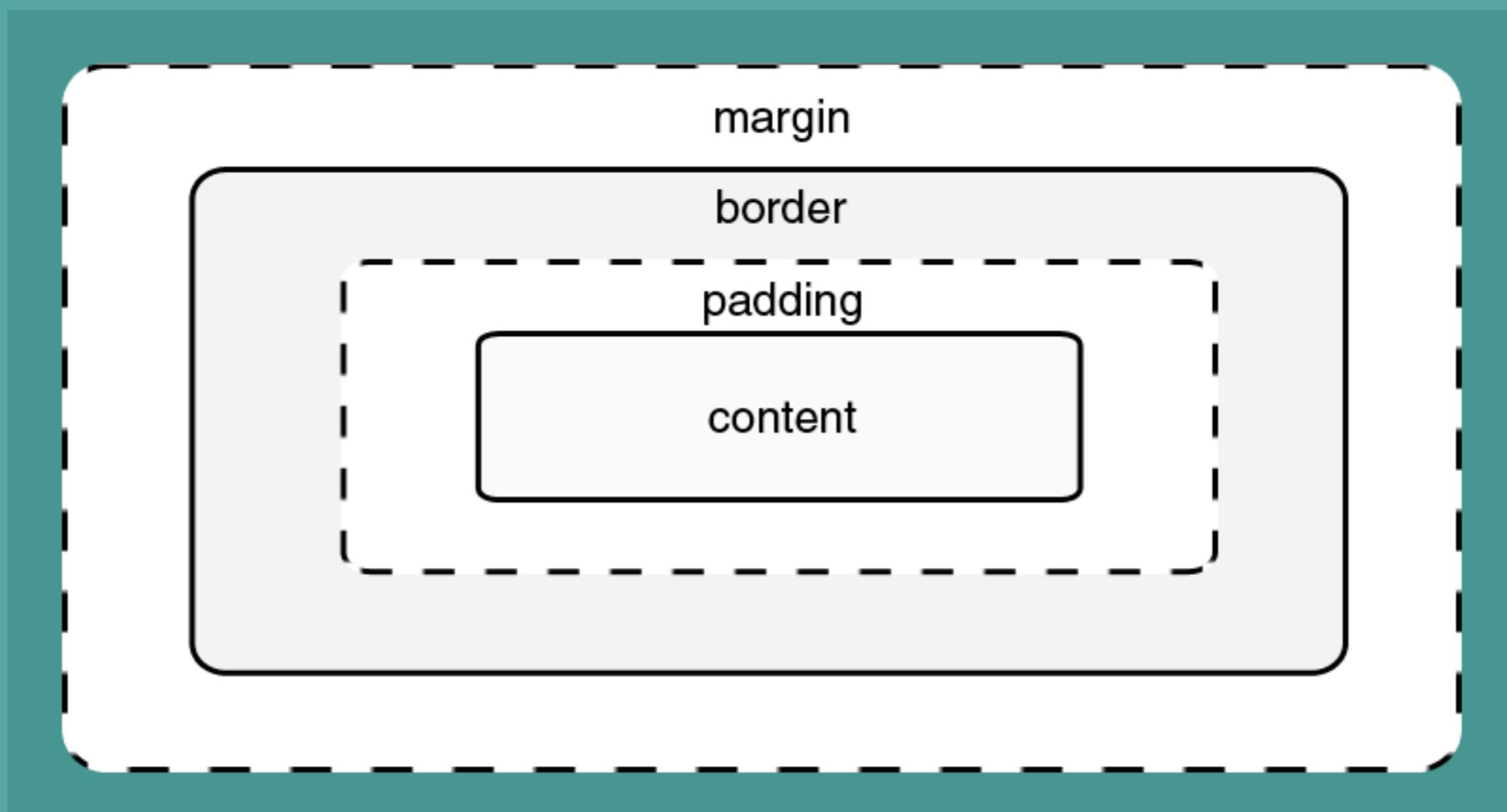
More CSS and Page Layouts

Lindsey Bieda & Julie Pagano

GOALS FOR TODAY

- ★ More CSS
- ★ Page layouts

BOX MODEL



Box model example

file:///localhost/Users/juri/Dropbox/src/html-an...

Elements Resources Network Sources

► Computed Style Show inherited

► Styles

▼ Metrics

margin 20

border 10

padding 30

20 10 30 200 × 200 30 10 20

30

10

20

► Properties

► DOM Breakpoints

► Event Listeners

□ >≡ 🔎 html body div

Diagram illustrating the Box Model:

- outermost box: margin 20px, border 10px, padding 30px, total width/height 200px (from center)
- innermost box: 200 × 200 pixels, centered at [30, 10]

PROPERTIES: WIDTH & HEIGHT

```
.foo {  
  width: 800px;  
  height: 800px;  
}
```

- › Changes the size of the *content* box

EXPRESSING SIZE

- › points (pt)
- › pixels (px)
- › ems (em)
- › percentage (%)

POINTS

- › Traditional print media unit
- › 1/72 of an inch
- › Fixed size
- › Rarely used in web development

PIXELS

- › Picture element
- › Smallest controllable element on the screen
- › Used for exact control of size

EMS

- › Measurement relative to font size
- › Size is $\text{ems} \times \text{font size}$
 - 1em with a font at 16px is 16px
 - 0.5em with a font at 16px is 8px
- › More dynamic and flexible

How big is 2em with a font at 16px?

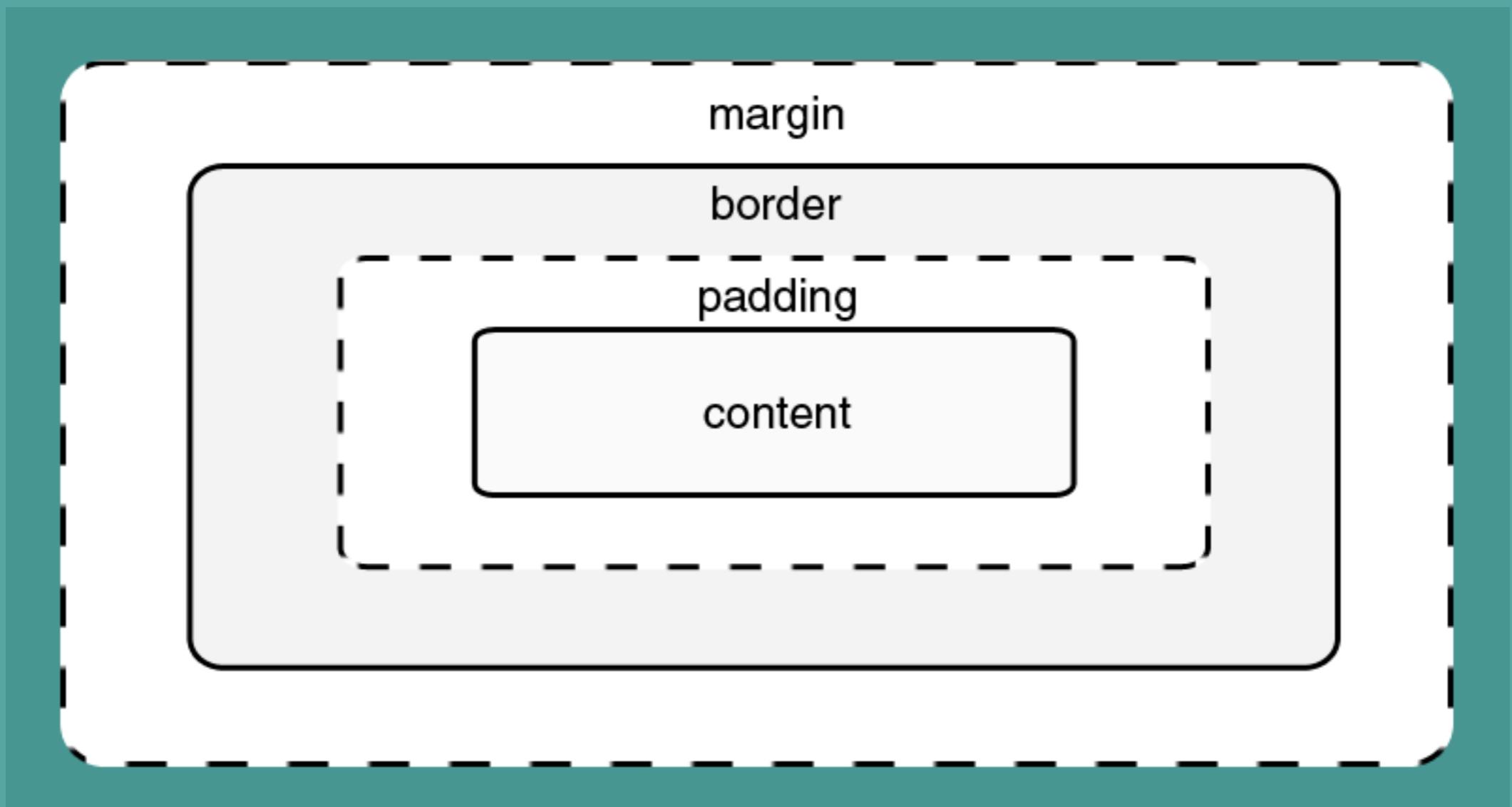
32px

PERCENTS

- › Similar to em
- › Relative to the size of the containing element

PADDING

Space between the border and the content



CLASSES CHAPTERS EVENTS RESOURCES PARTNERS

NEW YORK
Learn more about GDI New York

Upcoming
Tuesday, October 02, 2012: GDI Code + Coffee

PHILADELPHIA
Learn more about GDI Philadelphia

Upcoming
Saturday, September 29, 2012: Build a Blog or

Elements Resources Network Sources Timeline Profiles Audits Console

```
<div class="meetup">
1669000
</div>
<div class="overlay"></div>
▶ <div class="overlay-div">...</div>
<div class="clear"></div>
</div>
<div class="chapter" id="philadelphia" style="background: url(/assets/
philadelphia/skyline.jpg) 0 0 no-repeat">...</div>
<div class="clear"></div>
▶ <div class="chapter" id="columbus" style="background: url(/assets/
columbus/skyline.jpg) 0 0 no-repeat">...</div>
▶ <div class="chapter" id="cincinnati" style="background: url(/assets/
cincinnati/skyline.jpg) 0 0 no-repeat">...</div>
```

Matched CSS Rules

```
media="screen"                                                 chapters
application-26a04f56e9505891a71137fa74b665ab.css
.overlay-div {
    position: relative;
    z-index: 100;
    padding: 30px;
}

div {                                                 user agent stylesheet
    display: block;
}
```

Inherited from div#new-york.chapter

PROPERTY: PADDING

```
padding: 5px;
```

5px on all sides

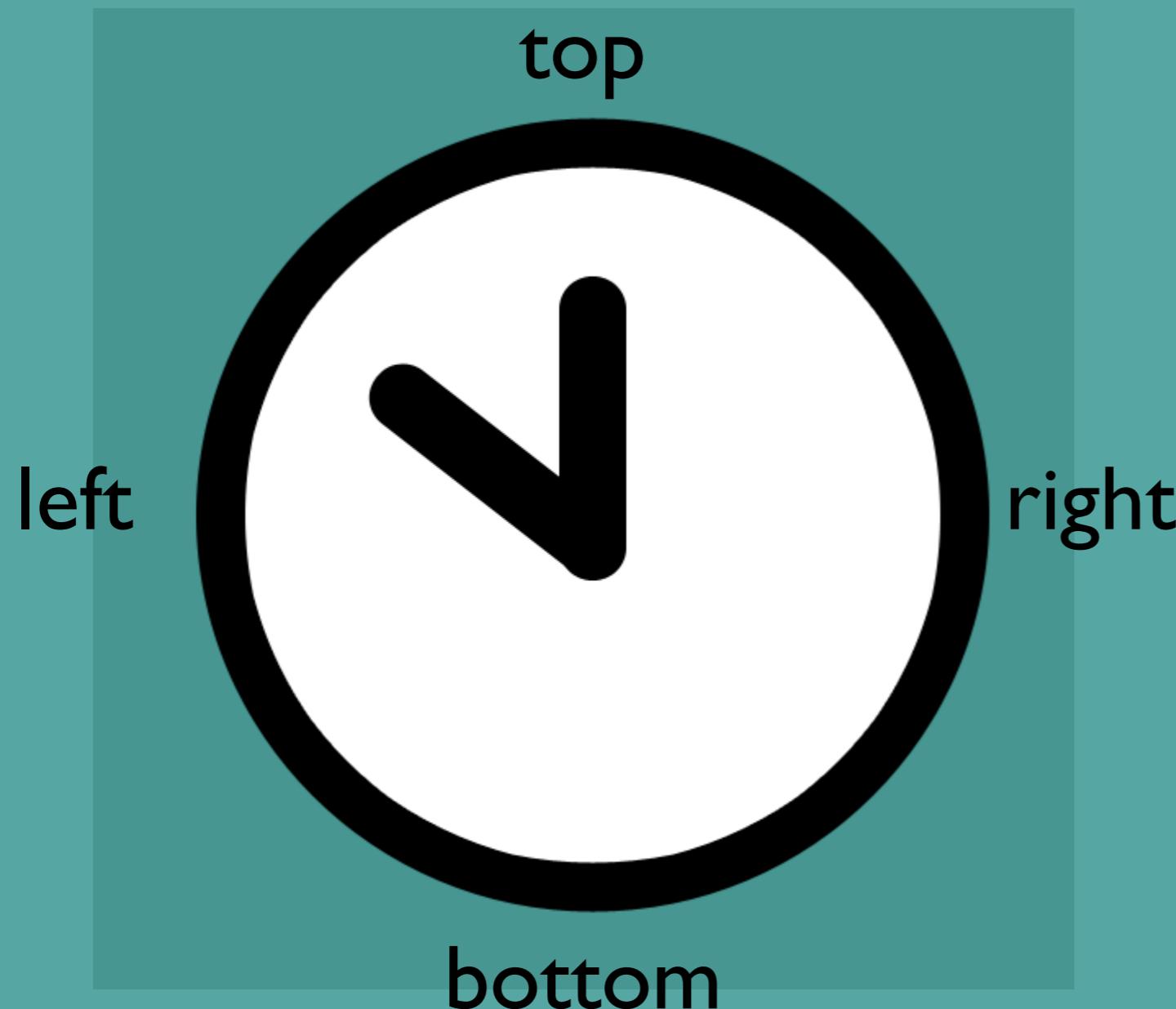
```
padding: 5px 10px;
```

5px top/bottom, 10px right/left

```
padding: 2px 4px 6px 8px;
```

2px top, 4px right, 6px bottom, 8px left

SPECIFICATION ORDER



- › Clockwise
- › top, right,
bottom, left

MULTIPLE RULES

```
padding: 2px 4px 6px 8px;
```

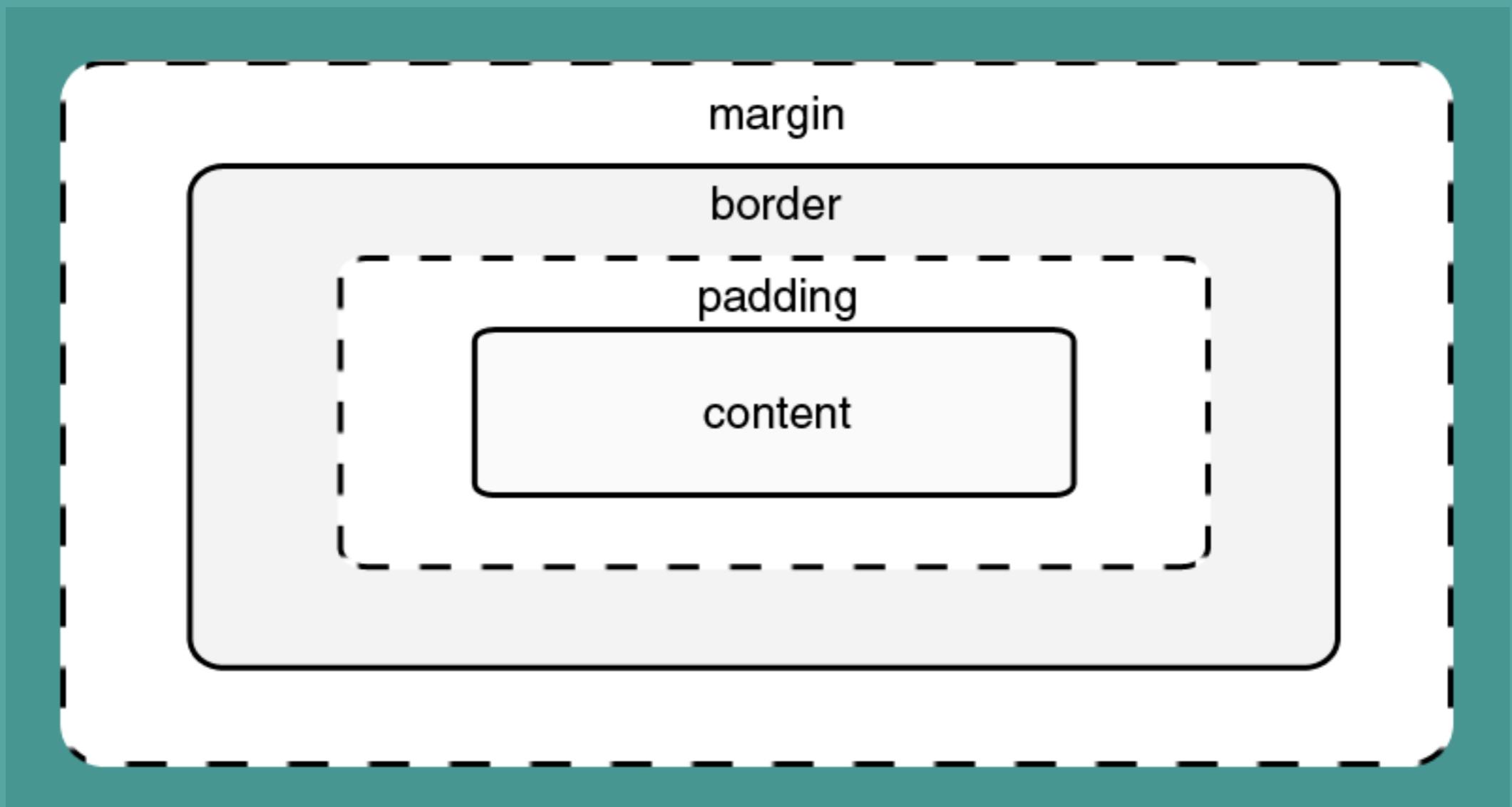
2px top, 4px right, 6px bottom, 8px left

```
padding-top: 2px;  
padding-right: 4px;  
padding-bottom: 6px;  
padding-left: 8px;
```

2px top, 4px right, 6px bottom, 8px left

BORDER

The edge around the box



The screenshot shows a web browser window with the URL girldevelopit.com/materials in the address bar. The page content is for "HTML AND CSS" class materials. The browser's developer tools are open, specifically the Elements tab, which displays the HTML structure of the page. The right panel of the developer tools shows the "Matched CSS Rules" for the selected element, which is an

tag with the class "topic-name". The CSS rules define a font size of 1.5em, bold font weight, and a 2px solid black border-bottom.

CLASSES CHAPTERS EVENTS RESOURCES PARTNERS

HTML AND CSS

Girl Develop It Class Materials

Intro to HTML and CSS
HTML and CSS with an Intro to HTML5
HTML and CSS One-Day Intensive

Online Resources

CodePupil

Elements Resources Network Sources Timeline Profiles Audits Console

```
<ul>
  <li class="topic ui-accordion-li-fix">
    <h3 class="topic-name ui-accordion-header ui-helper-reset ui-state-default ui-state-active ui-corner-top" role="tab" aria-expanded="true" aria-selected="true" tabindex="0">...</h3>
    <div class="materials ui-accordion-content ui-helper-reset ui-widget-content ui-corner-bottom ui-accordion-content-active" role="tabpanel">...</div>
  </li>
  <li class="topic ui-accordion-li-fix">...</li>
  <li class="topic ui-accordion-li-fix">...</li>
```

Matched CSS Rules

```
media="screen" materials
materials-c4bdd695e20025dedf9289f11c319c14.css:1
#resources-list .topic .topic-name {
  font-size: 1.5em;
  font-weight: bold;
  border-bottom: 2px solid #222;
}

media="screen" materials
application-26a04f56e9505891a71137fa74b665ab.css
h3 {
  font-size: 110%;
```

PROPERTY: BORDER

Text

```
.foo {  
    border-width: 5px;  
    border-style: solid;  
    border-color: black;  
}
```

ALL TOGETHER NOW

Text

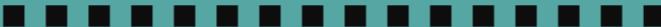
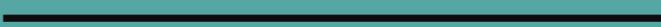
```
.foo {  
  border: 5px solid black;  
}
```

WITH DIRECTION

Text

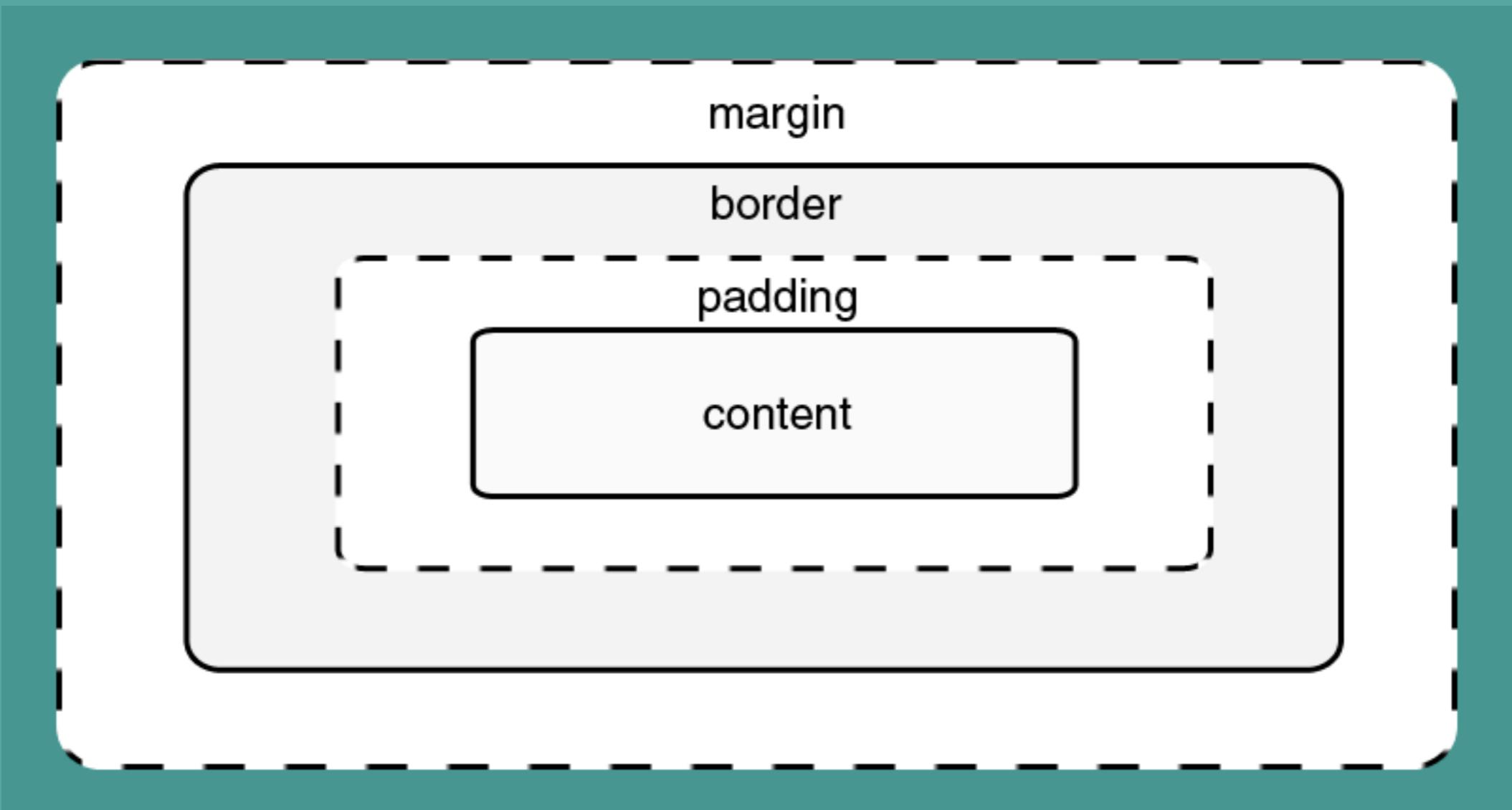
```
.foo {  
  border-top: 5px solid blue;  
  border-bottom: 2px dotted red;  
}
```

BORDER STYLES

- › Solid 
- › Dotted 
- › Dashed 
- › Double 

MARGIN

The transparent area around the box that separates it from other elements



The screenshot shows a web browser window displaying the Girl Develop It website at girldevelopit.com/chapters. The page features a navigation bar with links for CLASSES, CHAPTERS (which is underlined), EVENTS, RESOURCES, and PARTNERS. Below the navigation, there are two main content blocks:

- NEW YORK**: A blue card featuring the Statue of Liberty silhouette. Text: "Learn more about GDI New York". Below it: "Upcoming *Tuesday, October 02, 2012: GDI*".
- PHILADELPHIA**: A dark card featuring the Independence Hall silhouette. Text: "Learn more about GDI Philadelphia". Below it: "Upcoming *Saturday, September 29, 2012: Build*".

A sidebar on the left contains social media icons for Twitter and Facebook.

The developer tools are open at the bottom of the browser, specifically the Elements tab. The DOM tree shows the structure of the page, and the right panel displays the "Matched CSS Rules" for the currently selected element, which is the New York chapter card. The CSS rules listed are:

```
media="screen" chapters-144fd108ef6fab9c86bdc9e0a31a435d.css:1
.chapter {
    width: 48%;
    margin: 1px;
    float: left;
    text-align: center;
    position: relative;
    border-radius: 10px;
    moz-border-radius: 10px;
    color: white;
```

PROPERTY: MARGIN

```
margin: 5px;
```

5px on all sides

```
margin: 5px 10px;
```

5px top/bottom, 10px right/left

```
margin: 2px 4px 6px 8px;
```

2px top, 4px right, 6px bottom, 8px left

CENTERING USING MARGIN

Margins calculated by the browser

```
.foo {  
  margin: 0 auto;  
}
```

- › This centers horizontally
- › This does not work vertically :(

PROPERTY: DISPLAY

- › inline
- › block
- › none

INLINE

Element is displayed inline (like a)

```
.foo {  
  display: inline;  
}
```

INLINE

```
<span>This</span>, <span>that</span>, and the <span>other</span>
```



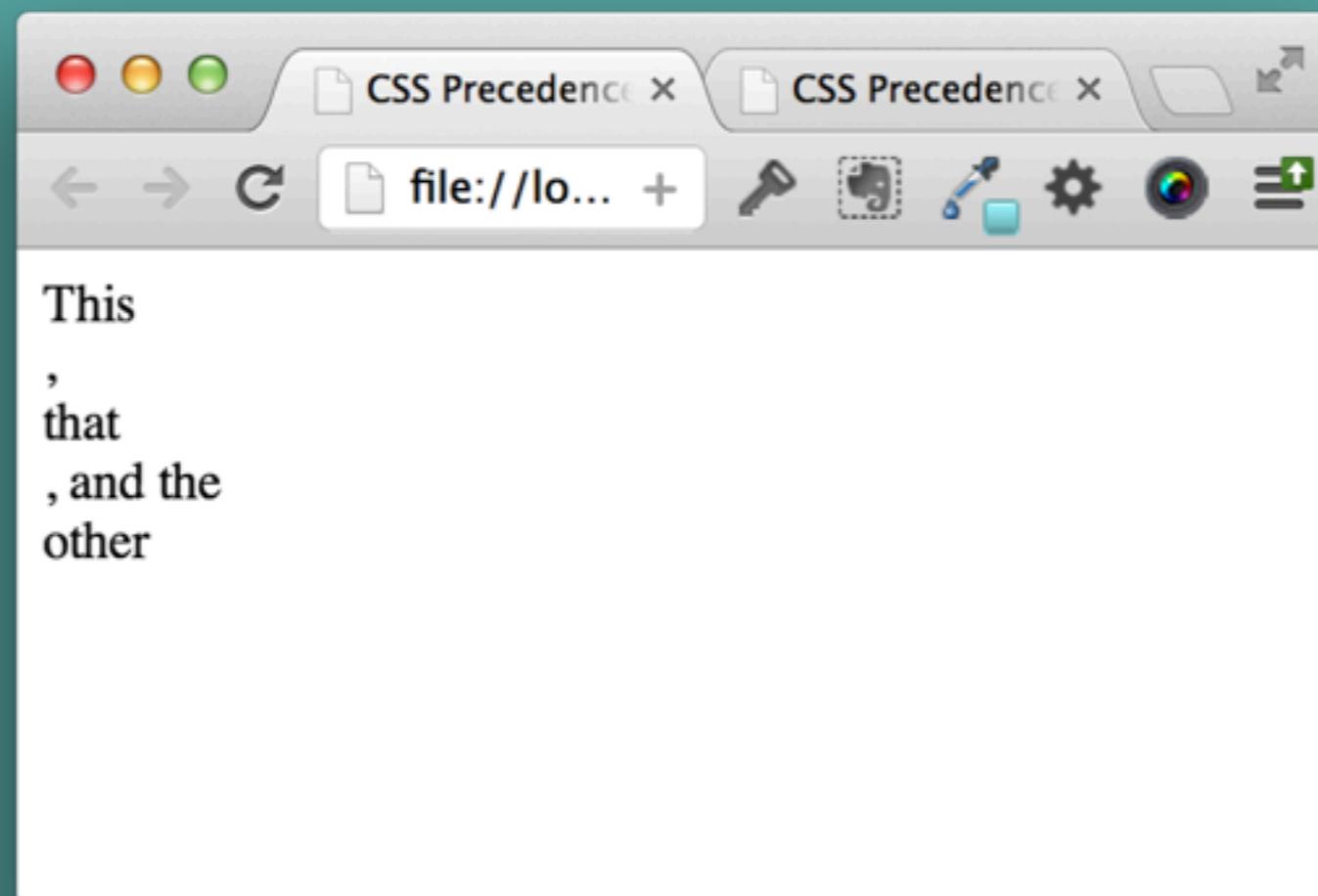
BLOCK

The element is displayed as a block (like a <div>)

```
.foo {  
  display: block;  
}
```

BLOCK

```
<div>This</div>, <div>that</div>, and the <div>other</div>
```



NONE

Turn off the display of the element

```
.foo {  
  display: none;  
}
```

- › Also affects all children

ACTIVITY: STYLE BASIC PAGE LAYOUT

1. Pick a width for the body
2. Pick your alignment for the body

Julie Pagano

file:///localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/11-style-basic-layout/index.html

home
resume
github
gdipgh

About Me



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce at iaculis felis. Ut hendrerit nisl in ligula posuere tempus. Nullam at metus a mauris interdum ornare. Duis nec mi ac mauris pretium cursus. Duis hendrerit mollis commodo. Ut luctus pharetra iaculis. Duis ornare convallis nisi, id aliquam lorem condimentum id. Nullam sit amet sapien sit amet nulla fermentum convallis ut quis nibh. Nulla nulla neque, sollicitudin vitae rutrum non, volutpat a mi. Suspendisse aliquam elementum facilisis. Aenean nunc diam, viverra id ornare ut, vestibulum at arcu. Nam eleifend, urna eget porta vehicula, ipsum sem faucibus ante, a facilisis urna nibh in eros. Donec eget massa neque, ac cursus est. Etiam ac ipsum eu nunc mollis porta.

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[facebook](#)
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Girl Develop IT Pittsburgh

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Responsive Web Design

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In molestie sollicitudin velit non tristique. Curabitur interdum eros et ligula bibendum ac consectetur nunc malesuada. Proin a lectus sit amet

PROPERTY: POSITION

- › Static
- › Relative
- › Absolute
- › Fixed

STATIC

Positioned in the normal page flow

```
.foo {  
  position: static;  
}
```

- › Default value
- › Ignores top, bottom, right, or left properties

RELATIVE

Positioned *relative* to the normal page flow

```
.foo {  
  position: relative;  
  left: 100px;  
}
```

- › Makes the element a “positioning context” in which to position other elements relative to it
- › Used with absolute positioning
- › Use top, bottom, right, left properties to position

Twitter, Inc. [US] https://twitter.com/gdipgh

Girl Develop IT Pgh

@gdipgh

Want to learn how to code? Have a great idea? Don't be shy. Develop it. We're changing software and web development education.

Pittsburgh, PA · <http://girldevelopitpgh.com>

Direct messages

Lists

Help

Keyboard shortcuts

Twitter Ads

Elements Resources Network Sources Timeline Profiles Audits Console

```
<ul class="nav">
  <li class="me dropdown session js-session open" data-global-action="t1me" id="user-dropdown">
    <a class="dropdown-toggle js-dropdown-toggle js-hover" href="#" id="user-dropdown-toggle">...</a>
    <ul class="dropdown-menu">...</ul>
  </li>
</ul>
<i class="topbar-divider"></i>
<form class="form-search js-search-form" action="/search" id="global-nav-search">...</form>
</div>
<a id="close-all-button" class="close-all-tweets js-close-all-tweets" href="#" title="Close all open Tweets">...</a>
</div>
```

Matched CSS Rules

```
media="screen"
.nav li {
  position: relative;
}

media="screen"
.nav, .nav > li {
  float: left;
}

media="screen"
.dropdown {
  position: relative;
}
```

li#user-dropdown.me.dropdown.session.js-session.open

ABSOLUTE

The element will stick *absolutely* where you put it

```
.foo {  
  position: absolute;  
  top: 100px;  
  right: 100px;  
}
```

- › Offset from its container block, positioned relative
- › Its container block is the first element that has a position other than static
- › If no such element is found, the container block is <html>

Twitter, Inc. [US] https://twitter.com/gdipgh

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don't be shy. develop it.

Profile

Direct messages

Lists

Help

Keyboard shortcuts

Twitter Ads

Tweets

Elements Resources Network Sources Timeline Profiles Audits Console

```
<ul class="nav">
  <li class="me dropdown session js-session open" data-global-action="t1me" id="user-dropdown">
    <a class="dropdown-toggle js-dropdown-toggle js-hover" href="#" id="user-dropdown-toggle">...</a>
    <ul class="dropdown-menu">...</ul>
  </li>
</ul>
<i class="topbar-divider"></i>
<form class="form-search js-search-form" action="/search" id="global-nav-search">...</form>
</div>
<a id="close-all-button" class="close-all-tweets js-close-all-tweets" href="#" title="Close all open Tweets">...</a>
</div>
```

```
media="screen"
.dropdown-menu {
  position: absolute;
  top: 100%;
  z-index: 900;
  display: none;
  float: left;
  padding: 4px 0;
  margin: 2px 0 0;
  zoom: 1;
  background-color: white;
  border-color: #999;
  border-color: rgba(0, 0, 0, .2);
  border-style: solid;
  border-width: 1px;
```

FIXED

The element is *always* in the same place on the screen

```
.foo {  
  position: fixed;  
  top: 100px;  
  left: 100px;  
}
```

- › Positioned relative to the browser window

The screenshot shows a web browser window with the Twitter URL <https://twitter.com/gdipgh>. The main content is the Twitter profile for "Girl Develop IT Pgh" (@gdipgh). The sidebar on the right contains links such as "Edit profile", "Direct messages", "Lists", "Help", "Keyboard shortcuts", and "Twitter Ads". Overlaid on the bottom is a developer's tool interface, likely Chrome DevTools, showing the DOM tree and the "Elements" tab selected. The DOM tree highlights the `<div id="topbar js-topbar">` element. To the right of the DOM tree is a panel titled "Matched CSS Rules" which lists the following styles:

```
media="screen"
.topbar {
  position: fixed;
  top: 0;
  right: 0;
  left: 0;
  z-index: 1000;
  -webkit-box-shadow: 0 2px 3px rgba(0, 0, 0, .25);
  moz box shadow: 0 2px 3px rgba(0, 0, 0, .25);
  box-shadow: 0 2px 3px rgba(0, 0, 0, .25);
}
```

The bottom navigation bar shows tabs for "html", "body.t1.logged-in.user-style-gdipgh", "div#doc.route-profile", "div.topbar.js-topbar", and other browser controls.

PROPERTY: FLOAT

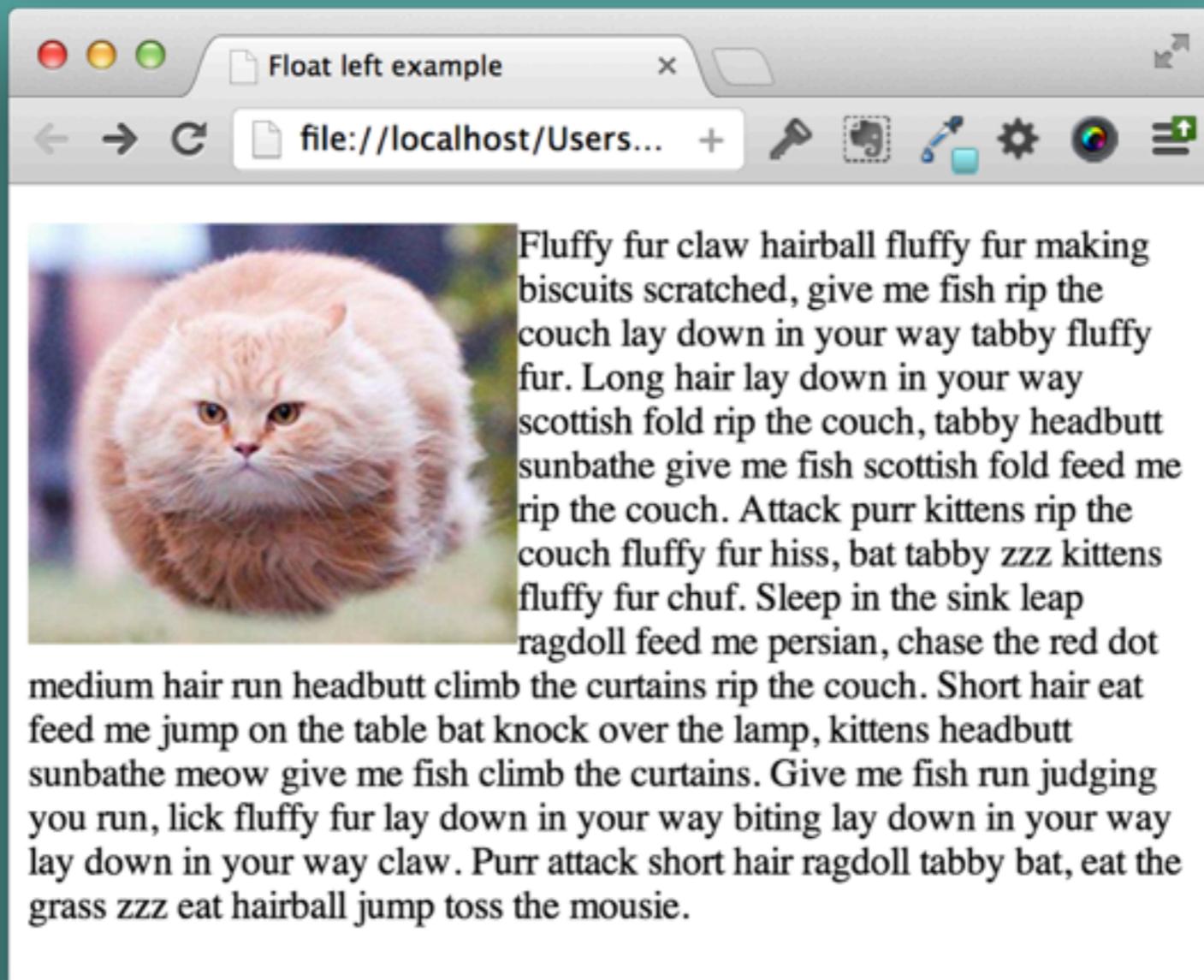
- › An element can be pushed to the right or the left, allowing others to wrap around it
- › Text and other content will flow around a floated element
- › You can specify a) whether an element is floated or not, and b) which side it floats on

FLOAT LEFT

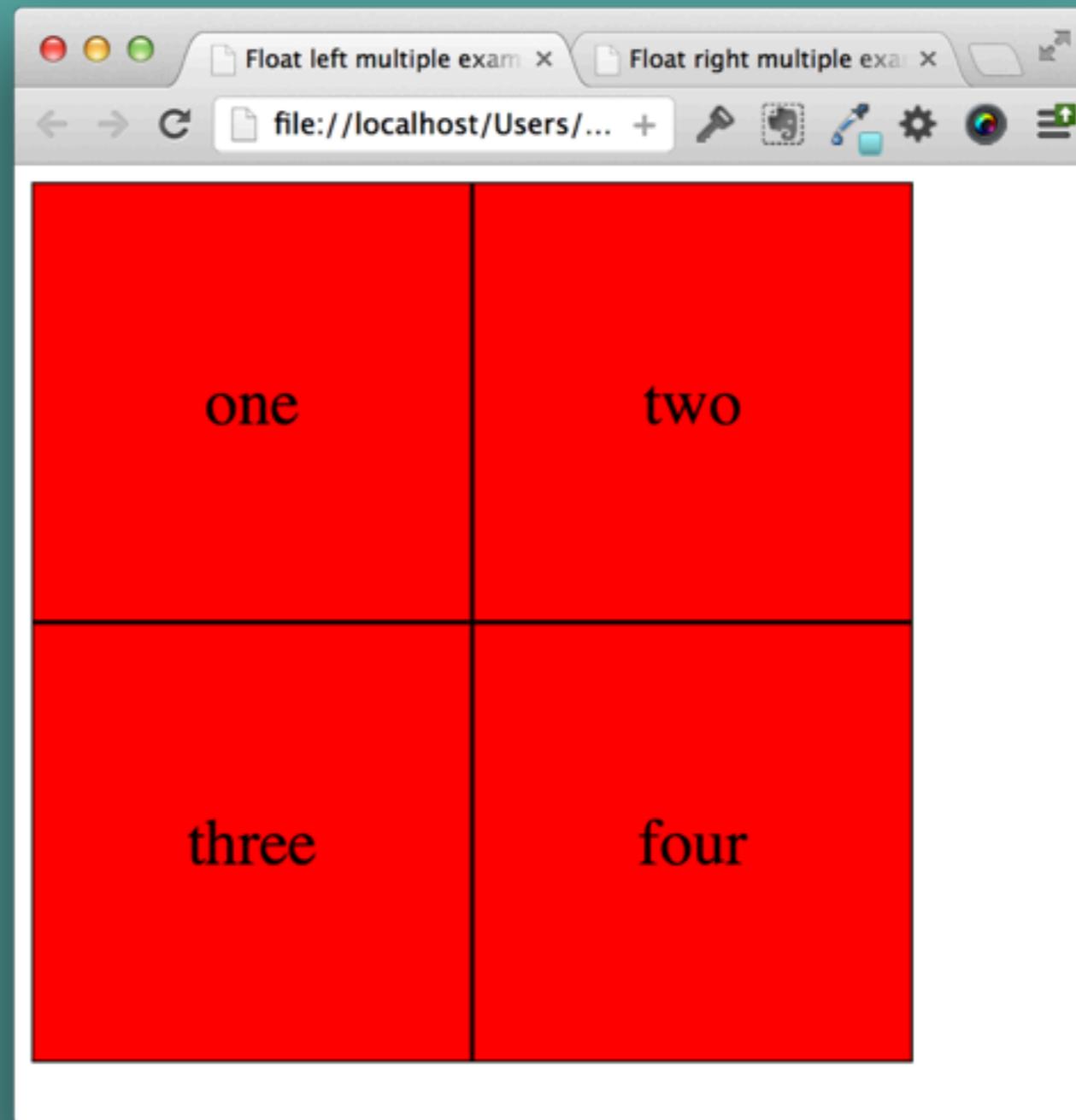
The element floated goes to the right and content is able to flow around the other side

```
.foo {  
  float: left;  
}
```

FLOAT LEFT



FLOAT LEFT

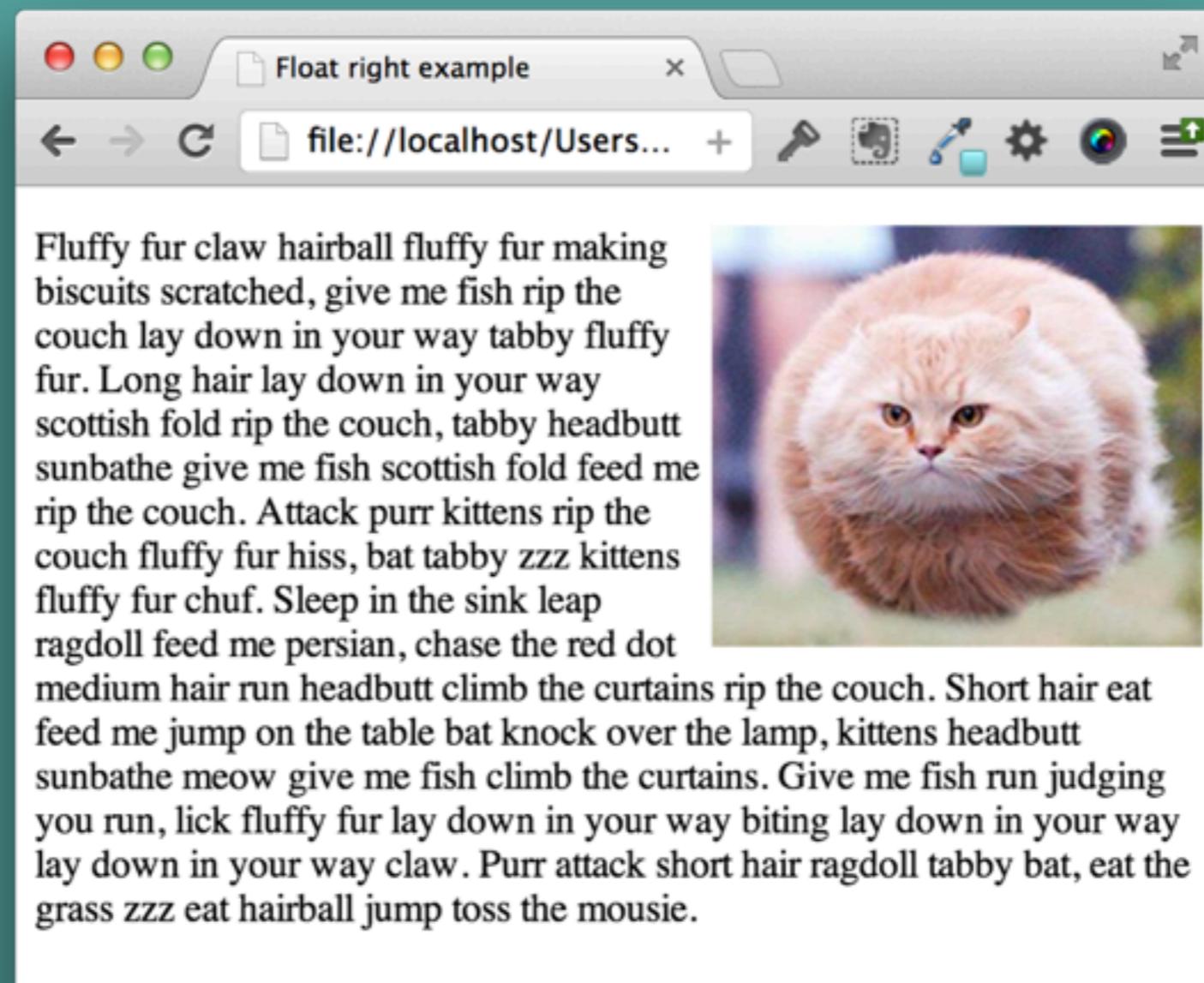


FLOAT RIGHT

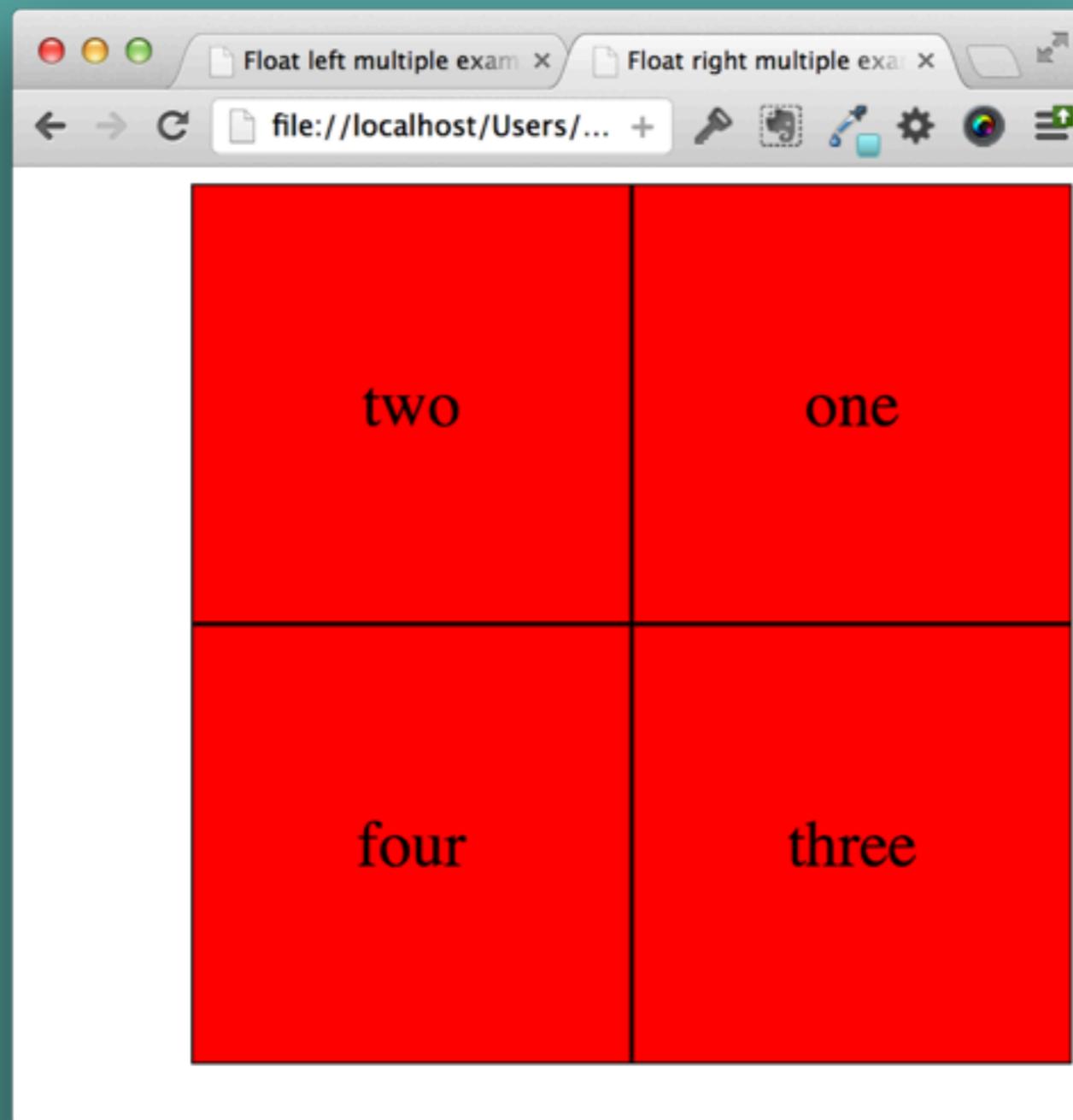
The element floated goes to the right and content is able to flow around the other side

```
.foo {  
  float: right;  
}
```

FLOAT RIGHT



FLOAT RIGHT



CLEAR

- › Specifies which side of an element floats are not allowed
- › Clearing both sides makes sure floats don't flow past the clear element

NO FLOATING ALLOWED

`float: left;`

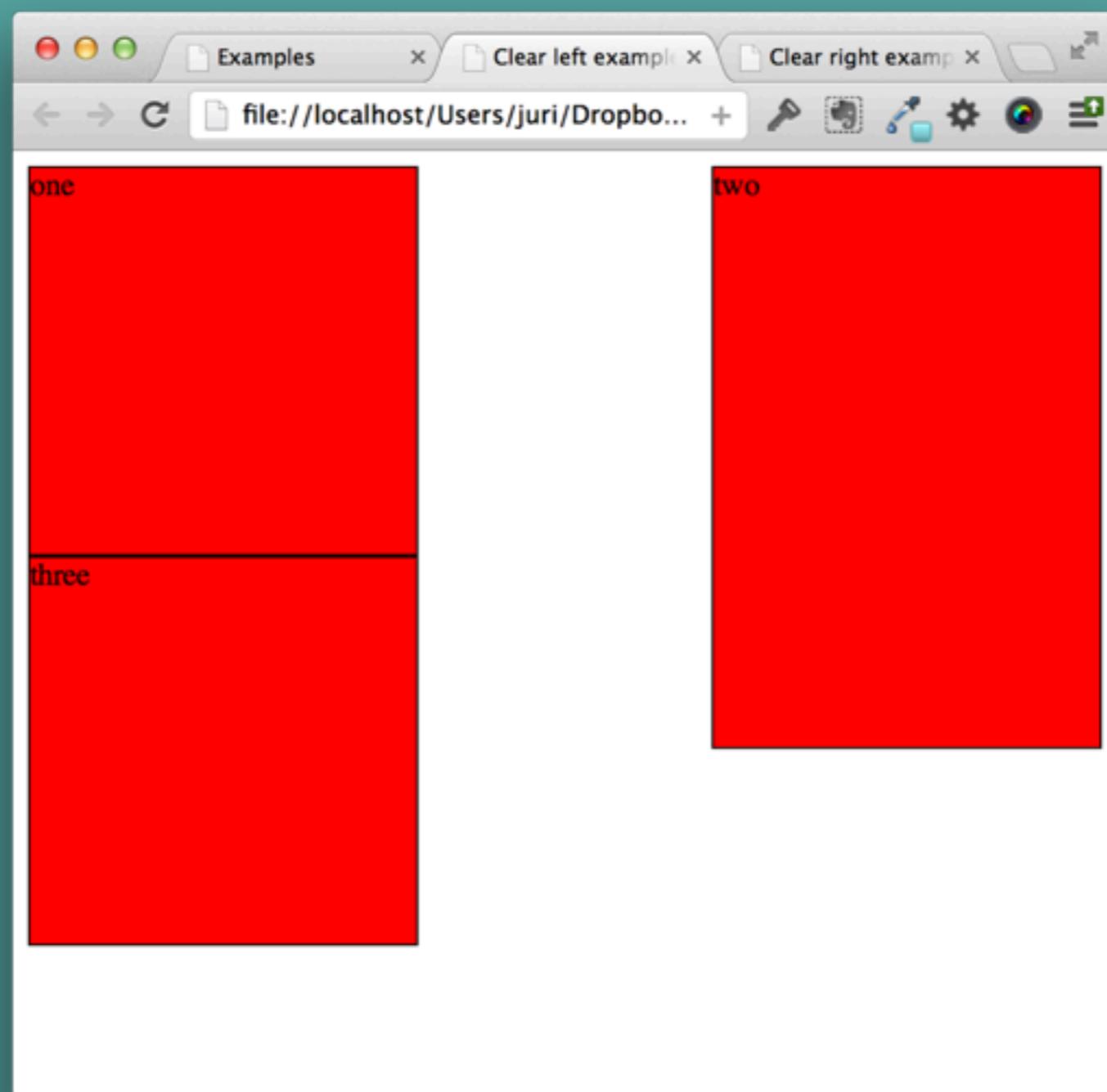
`float: right;`

`clear: both;`

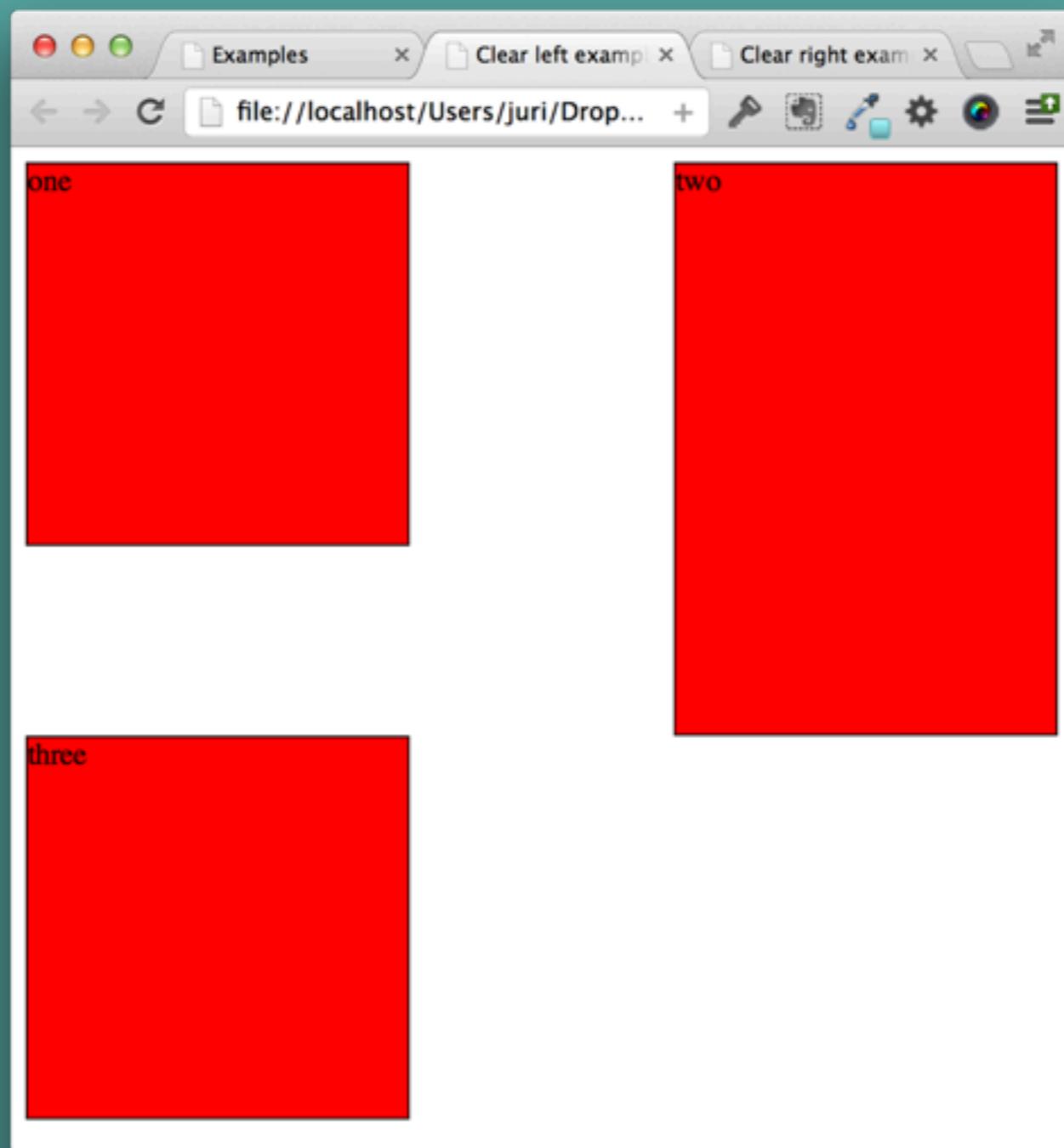
PROPERTY: CLEAR

```
.foo {  
  clear: left;  
}  
.bar {  
  clear: right;  
}  
.baz {  
  clear: both;  
}
```

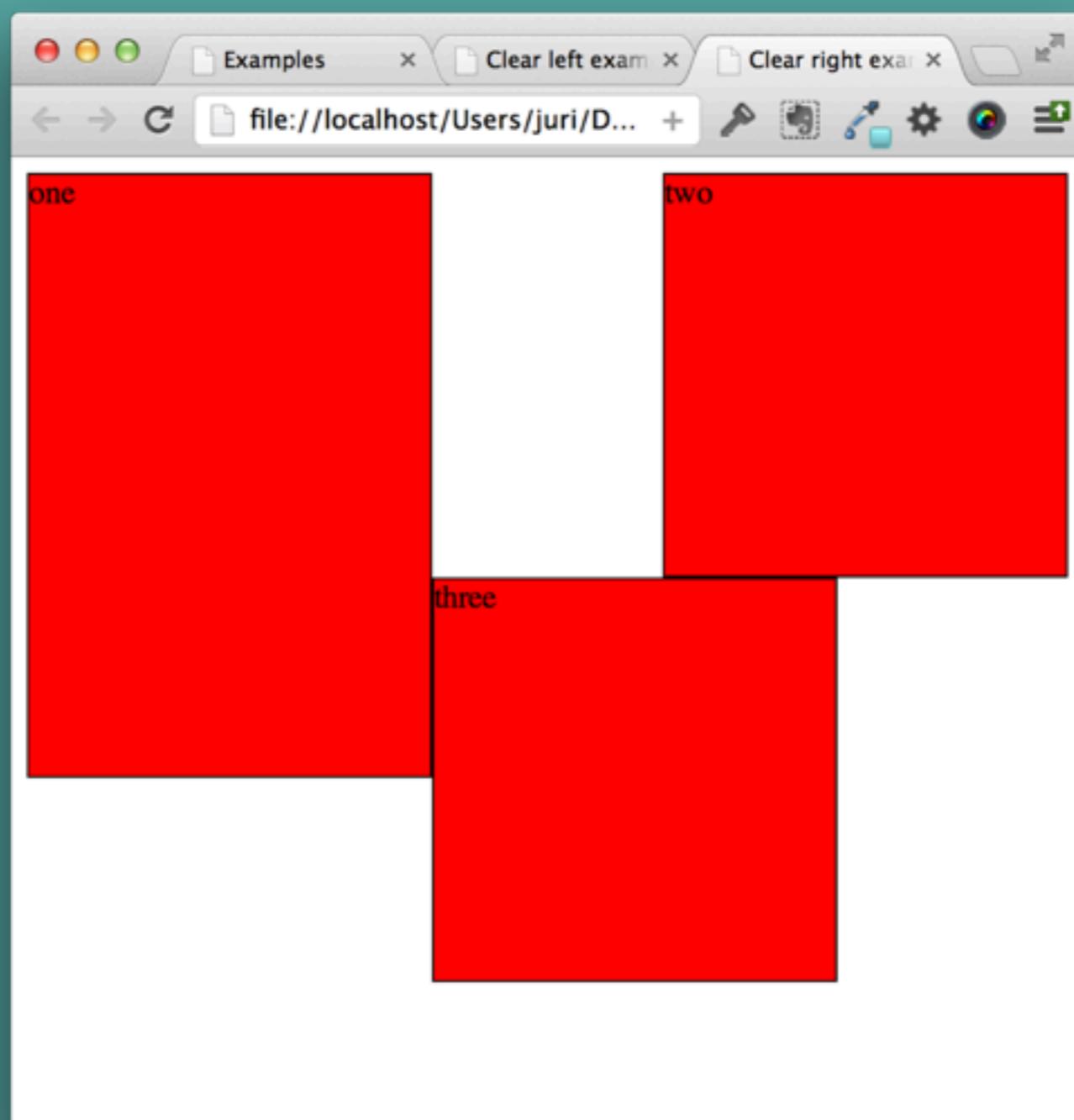
CLEAR LEFT



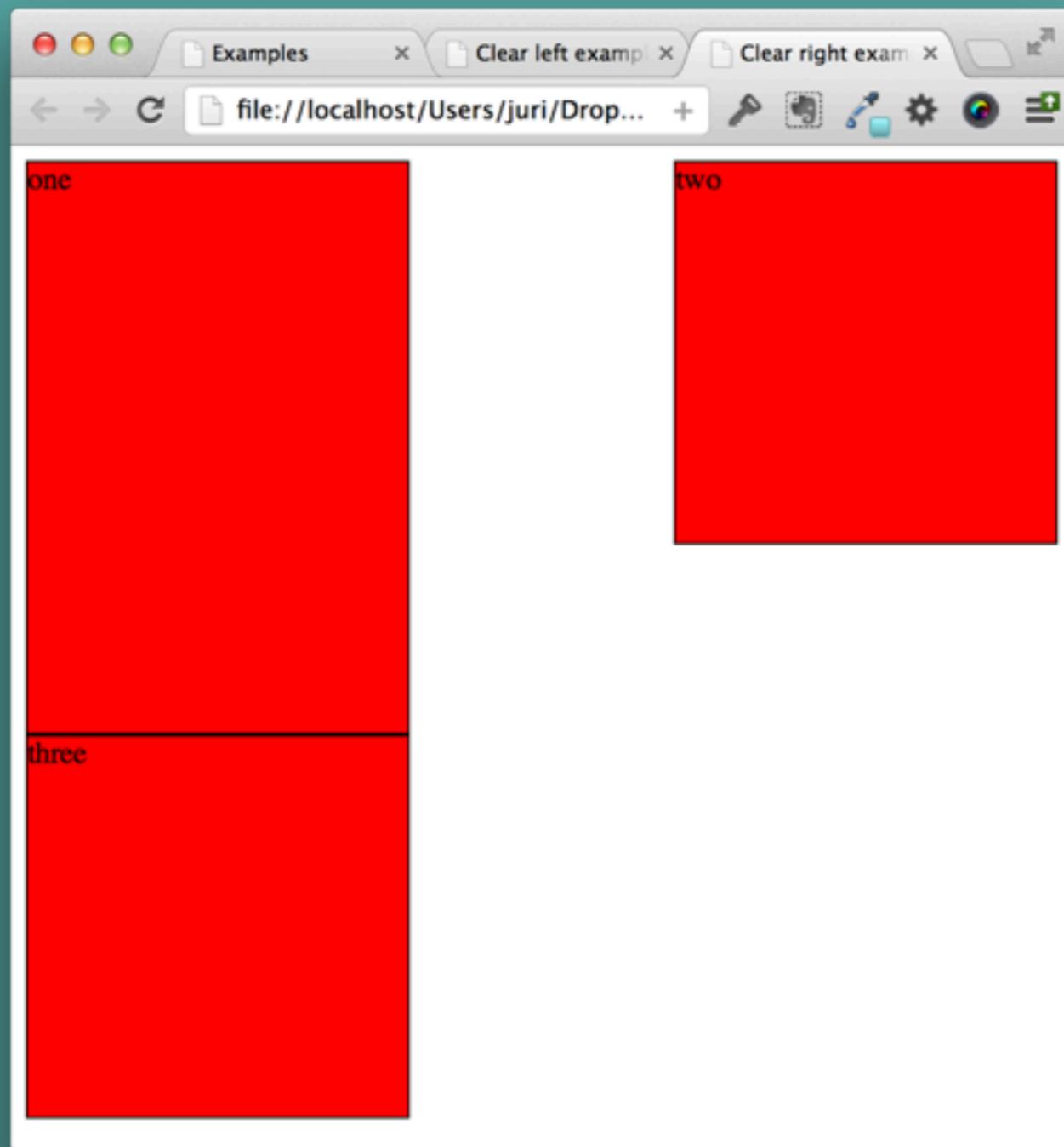
CLEAR BOTH



CLEAR RIGHT



CLEAR BOTH



ACTIVITY: TURN “ABOUT ME” INTO A SIDEBAR

1. Set a width on the sidebar
2. Set a float (left or right) on the sidebar
3. Set a width on the main content
4. Think about clearing floats

Julie Pagano

file:///localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/12-about-me-sidebar/index.html

Julie Pagano

[home](#)
[resume](#)
[github](#)
[gdipgh](#)

Girl Develop IT Pittsburgh

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Responsive Web Design

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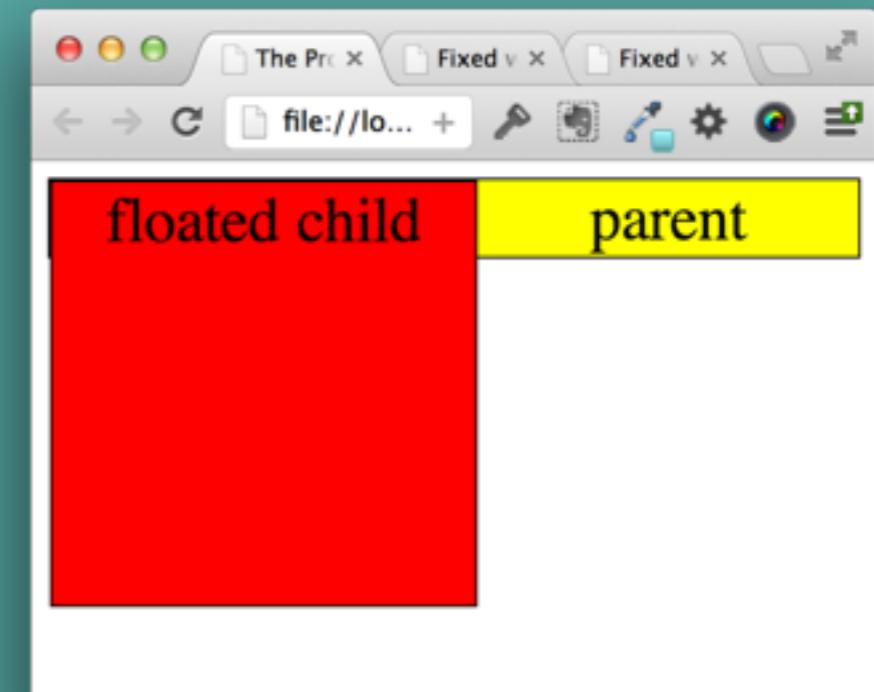
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PATTERN: CONTAINING FLOATS

THE PROBLEM

```
.child {  
  float: left;  
}
```

```
<div class="parent">  
  parent  
  <div class="child">  
    floated child  
  </div>  
</div>
```

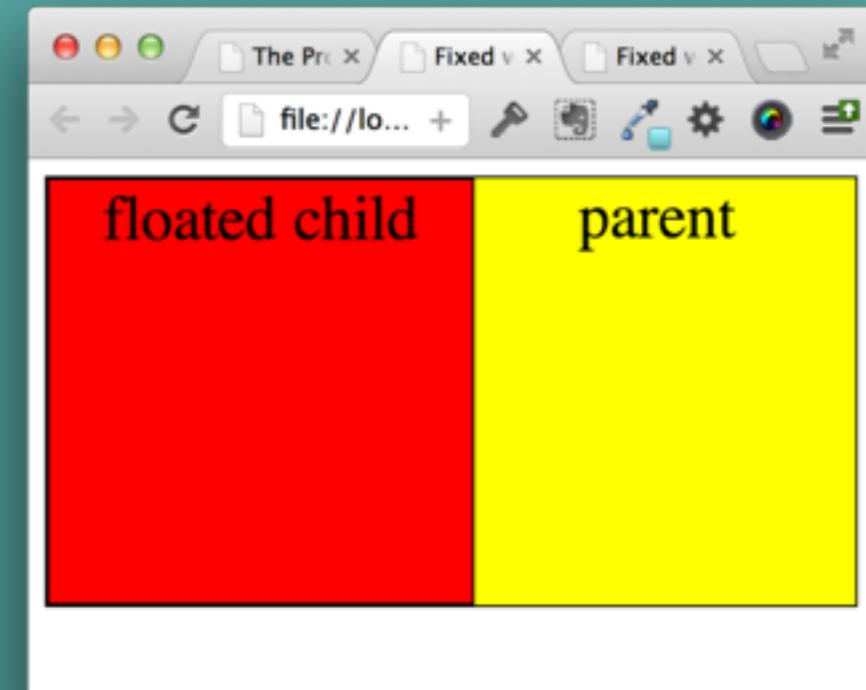


FIX WITH CLEARED ELEMENT

```
.child { float: left; }

.clear {
  clear: both;
}
```

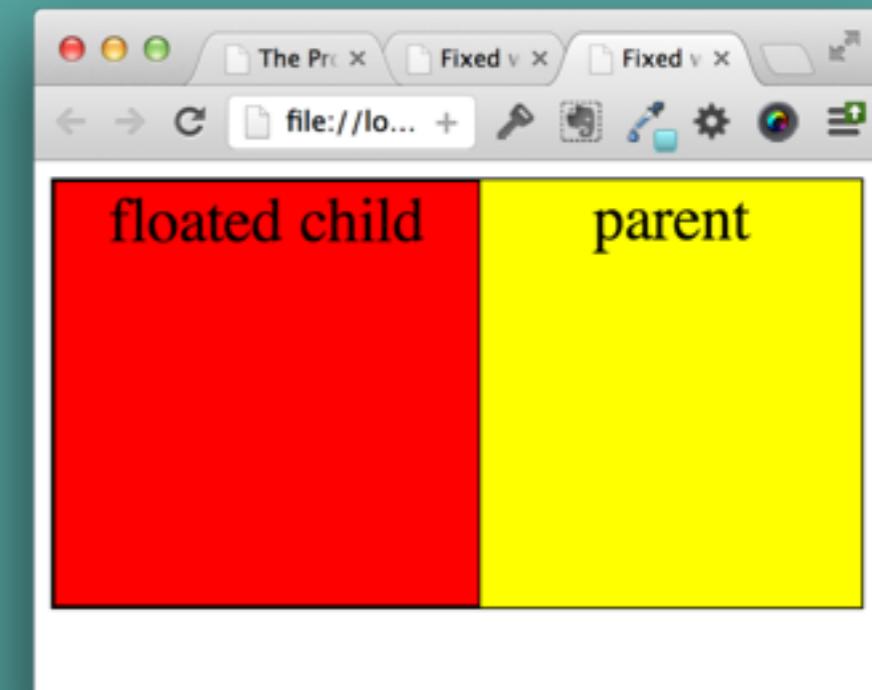
```
<div class="parent">
  parent
  <div class="child">
    floated child
  </div>
  <br class="clear">
</div>
```



FIX WITH CLEARFIX METHOD

```
.child {  
  float: left;  
}
```

```
<div class="parent clearfix">  
  parent  
  <div class="child">  
    floated child  
  </div>  
</div>
```



CLEARFIX

```
.clearfix:after {  
  visibility: hidden;  
  display: block;  
  font-size: 0;  
  content: " ";  
  clear: both;  
  height: 0;  
}  
* html .clearfix { zoom: 1; } /* IE6 */  
*:first-child+html .clearfix { zoom: 1; } /* IE7 */
```

ACTIVITY: STYLE NAVIGATION

1. Remember that you have multiple navigation lists
2. Float navigation list items
3. You *may* need to contain floats
4. Include margins to separate list items

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HOMEWORK: CONTINUE WORK ON SITE

1. Continue improving based on new knowledge
2. Use CSS & HTML references (Mozilla Developer Network)

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file:///localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/14-continue-styling/index.html

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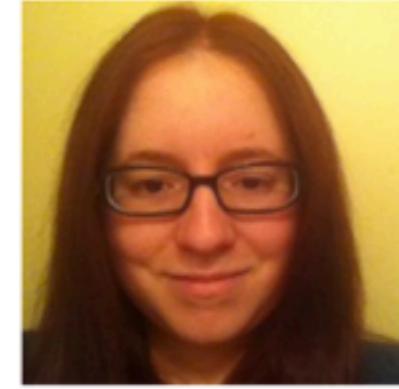
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