

DOWNLOAD CLASS MATERIALS

 <https://github.com/gdipgh/html-and-css-for-beginners>

OR

 <http://bit.ly/gdipgh-html-css>

HTML & CSS FOR BEGINNERS

Girl Develop IT Pittsburgh

Lindsey Bieda & Julie Pagano

WEEK #1

Introduction to HTML

Lindsey Bieda & Julie Pagano

INTRODUCTIONS



PLEASE ASK QUESTIONS!



GOALS FOR THE CLASS

- ★ Basic HTML
- ★ Basic CSS
- ★ How to create a site with HTML & CSS
- ★ Overview of project

GOALS FOR TODAY

- ★ Introduction to web development
- ★ Introduction to HTML

TERMS

Web design - The process of planning, structuring and creating a website.

Web development - The process of programming dynamic web applications.

HTML

HyperText Markup Language

MARKUP LANGUAGE

Describes how to structure and display
the content of a document

CSS

Cascading Style Sheets

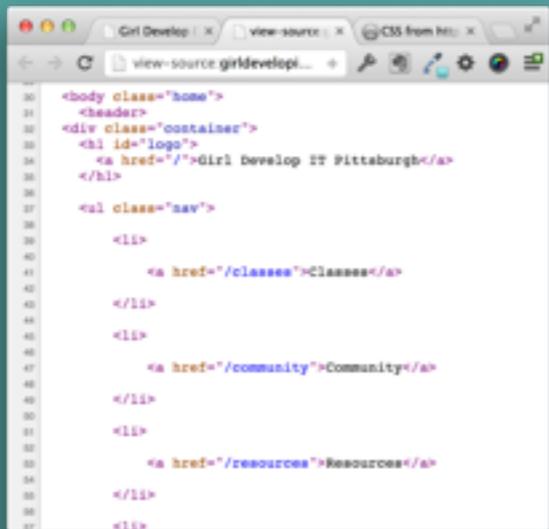
CSS

Presentation and styling of the document

HTML + **CSS**

Structure + **Style**

HTML



```
<body class="home">
<header>
<div class="container">
<h1 id="logo">
  <a href="/">Girl Develop It Pittsburgh</a>
</h1>

<ul class="nav">
  <li>
    <a href="/classes">Classes</a>
  </li>
  <li>
    <a href="/community">Community</a>
  </li>
  <li>
    <a href="/resources">Resources</a>
  </li>
  <li>
```

+

CSS



```
/*
  Welcome to Compass.
  In this file you should write your main styles. (or central)
  Import this file using the following HTML or equivalent:
  @import url("../stylesheets/screen.css");
  @media screen, projection {
    @import url("../stylesheets/screen.css");
  }
  */

  /* Line 17, vendor-prefixes/rails/gems/ruby-1.9.3-p194/giridev/p
  html, body, div, span, applet, object, iframe,
  h1, h2, h3, h4, h5, h6, p, blockquote, pre,
  a, abbr, acronym, address, big, cite, code,
  del, dfn, em, img, ins, kbd, q, samp,
  small, strike, strong, sub, sup, tt, var,
  b, u, i, center,
  dl, dt, dd, ol, ul, li,
  fieldset, form, label, legend,
  table, caption, tbody, tfoot, thead, tr, th, td,
  article, aside, canvas, details, embed,
  figure, figcaption, footer, header, hgroup,
  menu, nav, output, ruby, section, summary,
  time, mark, audio, video {
    margin: 0;
    padding: 0;
    border: 0;
    font: inherit;
    font-size: 100%;
    vertical-align: baseline;
  }

  /* Line 22, vendor-prefixes/rails/gems/ruby-1.9.3-p194/giridev/p
  html {
```

=



BROWSER

- › Program that renders content, including HTML & CSS, on the web
- › Allows users to view and interact with web sites

MAJOR BROWSERS



Chrome



Firefox



Internet Explorer



Safari



Opera

GOOGLE CHROME



CHROME DEVELOPER TOOLS

A toolkit that helps web developers build and debug web sites in Chrome

🛠 ACTIVITY: TOOL CHECK! 🛠

1. Open Chrome
2. Go to <http://www.girldevelopit.com>
3. Right click and inspect a page element

GDI girldevelopit.com

Gmail work career Ruby Google Reader Pivotal Tracker Simplenote RWD Bookmarklet instapaper wish list Other Bookmarks

Girl Develop It

don't be shy. develop it.

CLASSES CHAPTERS EVENTS RESOURCES PARTNERS

Empowering women of diverse backgrounds from around the world to learn how to develop software

Twitter Facebook

Elements Resources Network Sources Timeline Profiles Audits Console

<div id="page-container">
<div id="body-content">
<div class="topics">
<div class="overlay"></div>
<div class="overlay-div">
<p class="tagline">...</p>
<ul class="topic-buttons">
<li class="topic-box">...
<li class="topic-box green">

 ![Community](/assets/community-890825010c523e74ff827e2b39a6f137.png) <div class="topic">
 community
 </div>

TEXT EDITOR

- › Program for editing a text-based files
- › HTML (.html) & CSS (.css) files are text-based
- › We use text editors to build web sites

SUBLIME TEXT



🛠 ACTIVITY: TOOL CHECK! 🛠

1. Create a working directory (folder) for your project
2. Open Sublime Text
3. Open your working directory in Sublime Text

A screenshot of a Mac OS X-style text editor window. The title bar reads "untitled — girldevelopitpgh-html-css". The left sidebar under "FOLDERS" shows a single folder named "girldevelopitpgh-html-css" with a downward arrow indicating it's expandable. The main editor area is black with a white cursor at the top-left. In the bottom status bar, it says "Line 1, Column 1" on the left, "Spaces: 2" in the center, and "Plain Text" on the right.

```
1 |
```

BASIC HTML PAGE

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello World</title>
  </head>
  <body>
    <p>Hello World!</p>
  </body>
</html>
```

DOCTYPE

Document type declaration

```
<!DOCTYPE html>
```

- › Tells the browser what layout to use
- › It is required

HTML TAG

Root of the HTML document

```
<html>  
</html>
```

- › All other elements go inside here

HEAD & TITLE

The **head** contains metadata for the document

```
<head>
  <title>Hello HTML</title>
</head>
```

The **title** defines the title of the document

BODY

The main content of the document

```
<body>  
</body>
```

ANATOMY OF THE HTML TAG

```
<element attribute="value">content</element>
```

START/OPEN TAG

```
<element attribute="value">content</element>
```

END/CLOSE TAG

```
<element attribute="value">content</element>
```

ATTRIBUTES

```
<element attribute="value">content</element>
```

CONTENT

```
<element attribute="value">content</element>
```

ELEMENT

```
<element attribute="value">content</element>
```

PARAGRAPHS

```
<p>  
    This is the first  
    paragraph!  
</p>  
<p>  
    This is the second  
    paragraph!  
</p>
```

This is the first
paragraph!

This is the second
paragraph!

LINE BREAKS

```
<p>  
    The White House<br>  
    1600 Pennsylvania Ave.<br>  
    Washington, DC 20500  
</p>  
  
<p>  
    old pond...<br>  
    a frog leaps in<br>  
    water's sound  
</p>
```

The White House
1600 Pennsylvania Ave.
Washington, DC 20500

old pond...
a frog leaps in
water's sound

ACTIVITY: HELLO WORLD!

1. Go to your text editor
2. Create *index.html* in project directory
3. Open in browser
4. Create basic page with Hello World!
5. Change the title to indicate this is your home page
6. Inspect the page using the developer tools

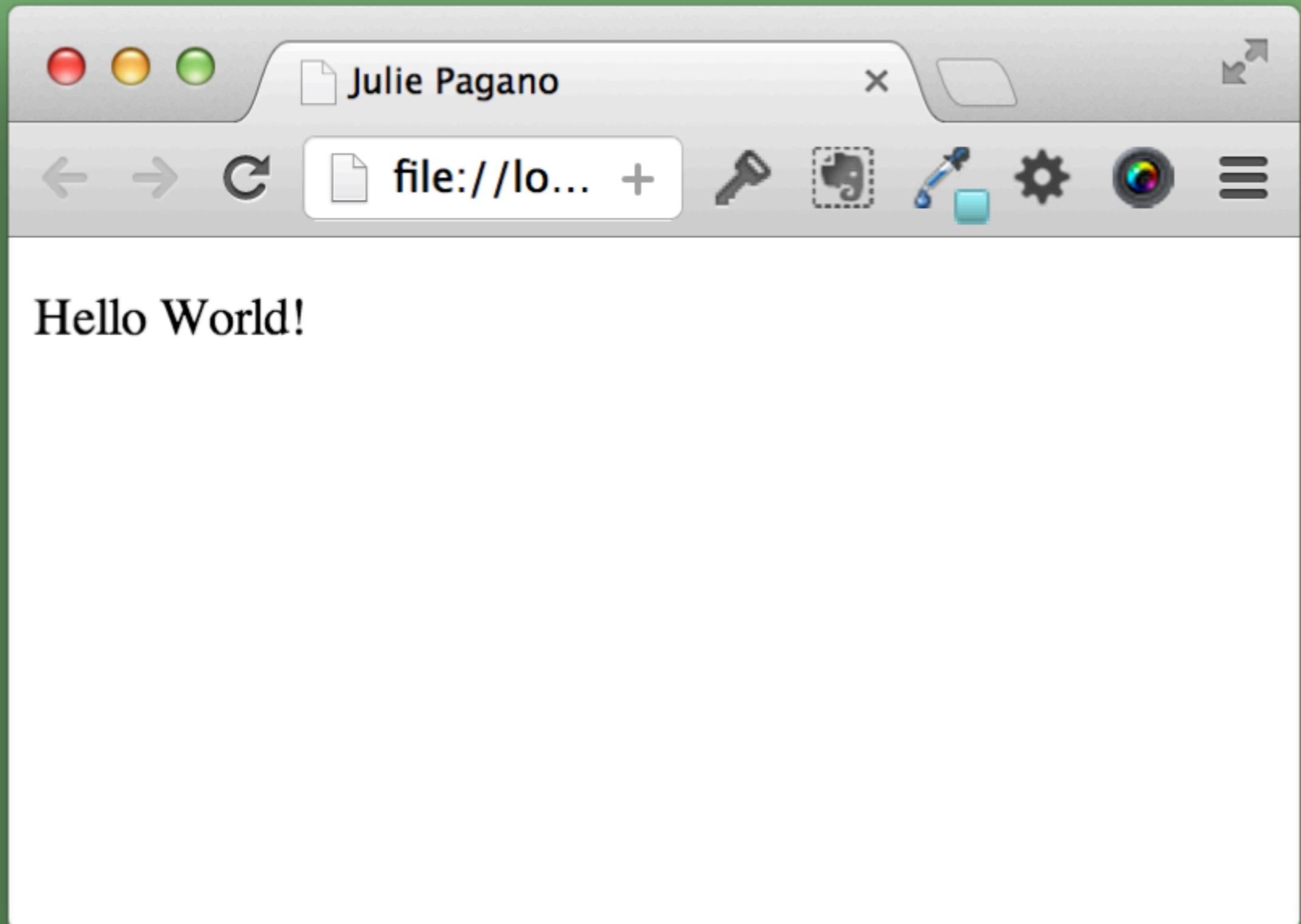
BASIC HTML PAGE

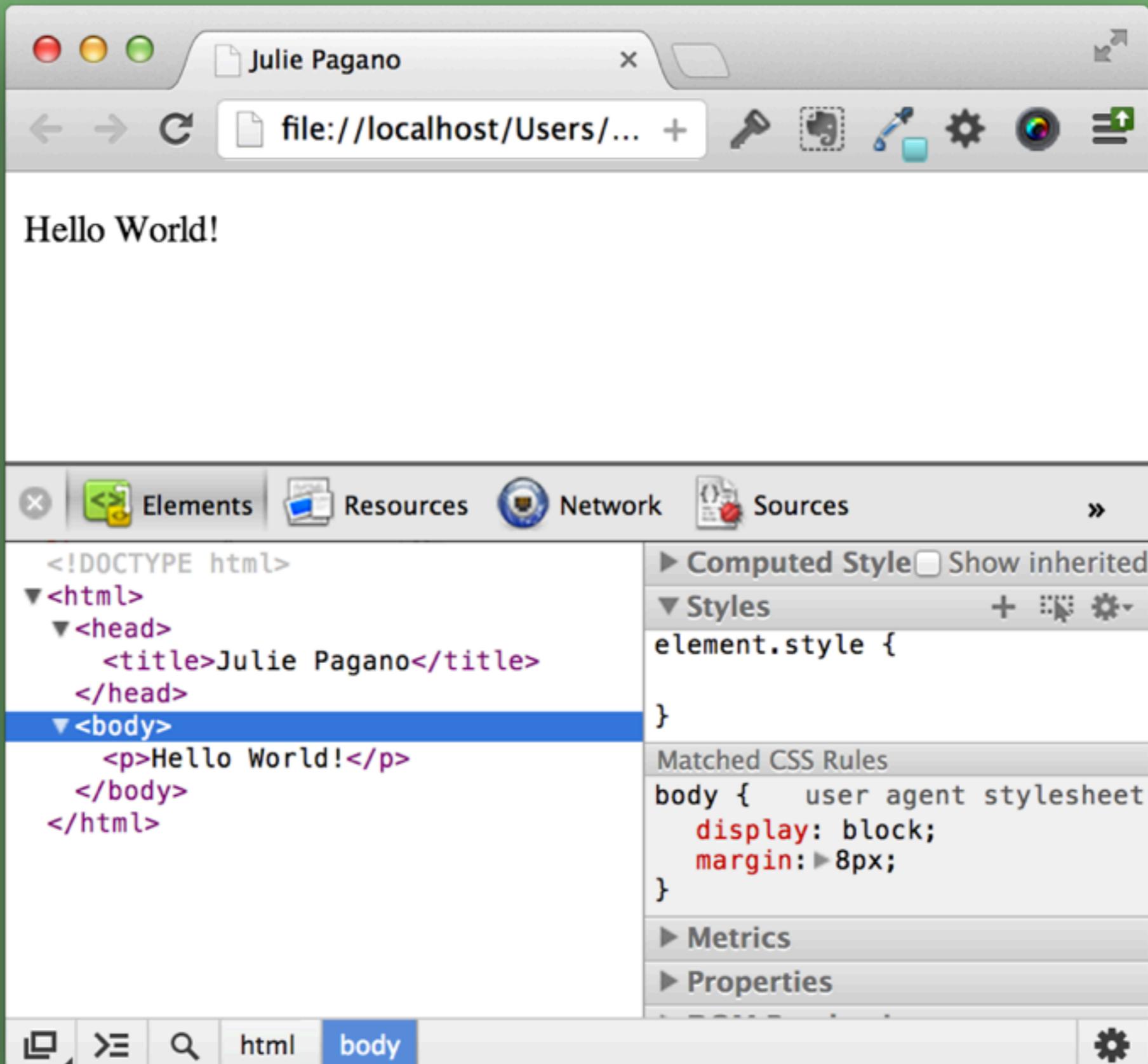
```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello World</title>
  </head>
  <body>
    <p>Hello World!</p>
  </body>
</html>
```

A screenshot of a Mac OS X desktop environment. On the left, there is a 'FOLDERS' sidebar showing a single folder named 'girldevelopitpgh-html-css' containing an 'index.html' file. The main window is titled 'index.html — girldevelopitpgh-html-css'. It displays the following HTML code:

```
index.html
1 <!DOCTYPE HTML>
2 <html>
3   <head>
4     <title>Julie Pagano</title>
5   </head>
6   <body>
7     <p>Hello World!</p>
8   </body>
9 </html>
```

The status bar at the bottom shows 'Line 9, Column 8' on the left, 'Spaces: 2' in the center, and 'HTML' on the right.





DIV

Generic container for content

```
<div>
  header content goes here
</div>
<div>
  main content goes here
</div>
```

- › Block element
- › Usually good for structuring page content

SPAN

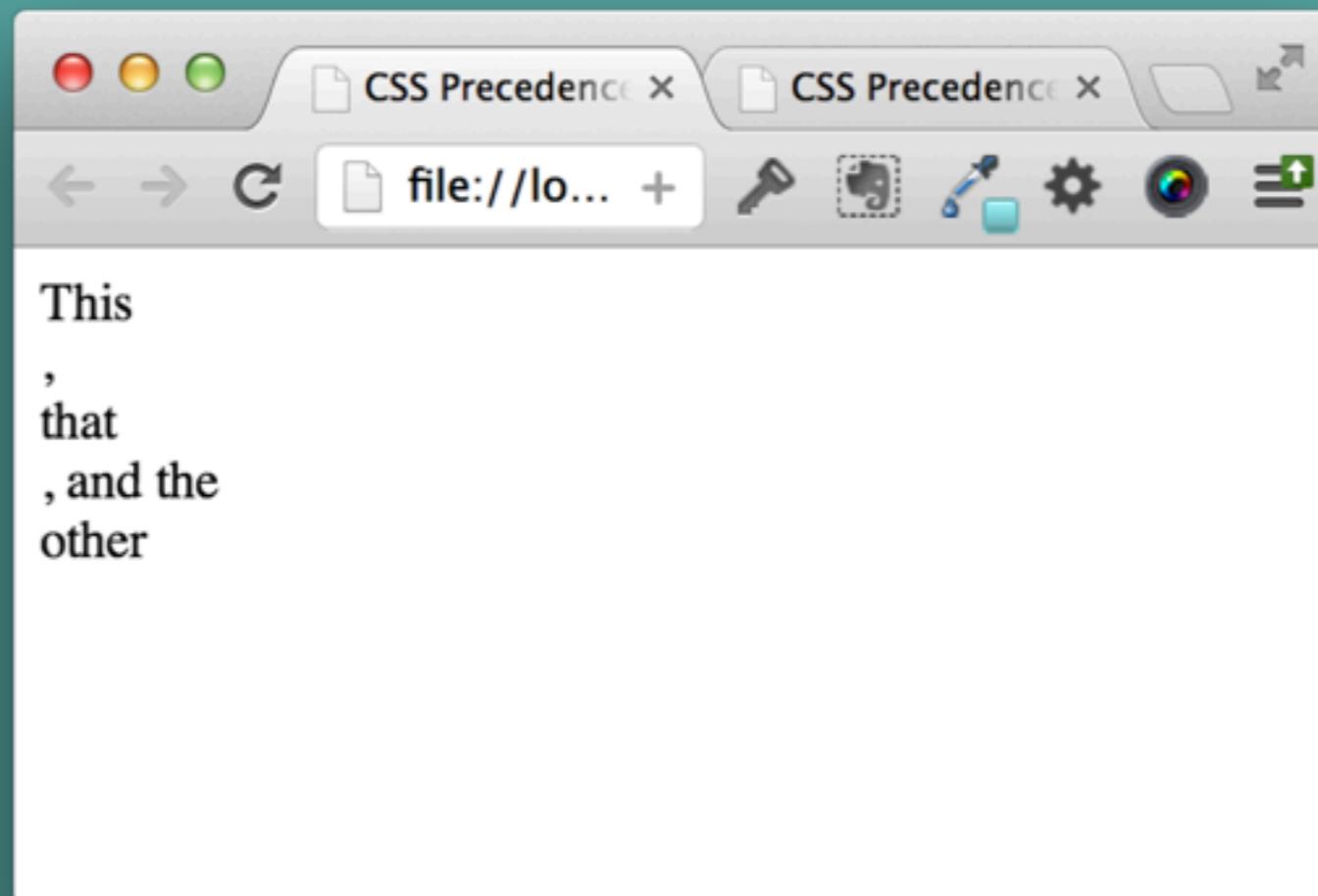
Generic container for content

```
<p>  
  See Spot <span>run</span>!  
</p>
```

- › Inline element
- › Usually good for styling text

BLOCK

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



INLINE

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



EM & STRONG

Inline elements for marking text

<p>em is used to stress emphasis. </p>

<p>strong is used to give strong importance. </p>

- › em is used to *stress emphasis*
- › strong is used give **strong importance**

HEADINGS

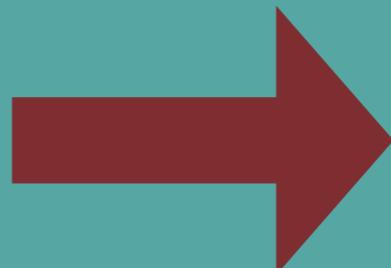
```
<h1>one</h1>  
<h2>two</h2>  
<h3>three</h3>  
<h4>four</h4>  
<h5>five</h5>  
<h6>six</h6>
```

one
two
three
four
five
six

ANCHORS/LINKS

```
<a href="http://www.girldvelopitpgh.com">  
    Girl Develop IT Pittsburgh  
</a>
```

Girl Develop IT Pittsburgh



IMAGES

```

```



IMAGES

```

```

kitten

IMAGE LINKS

```
<a href="http://girldevelopitpgh.com">  
    
</a>
```



LISTS

```
<ul>
  <li>Item 1</li>
  <li>Item 2</li>
  <li>Item 3</li>
</ul>
<ol>
  <li>Item 1</li>
  <li>Item 2</li>
  <li>Item 3</li>
</ol>
```

Unordered list

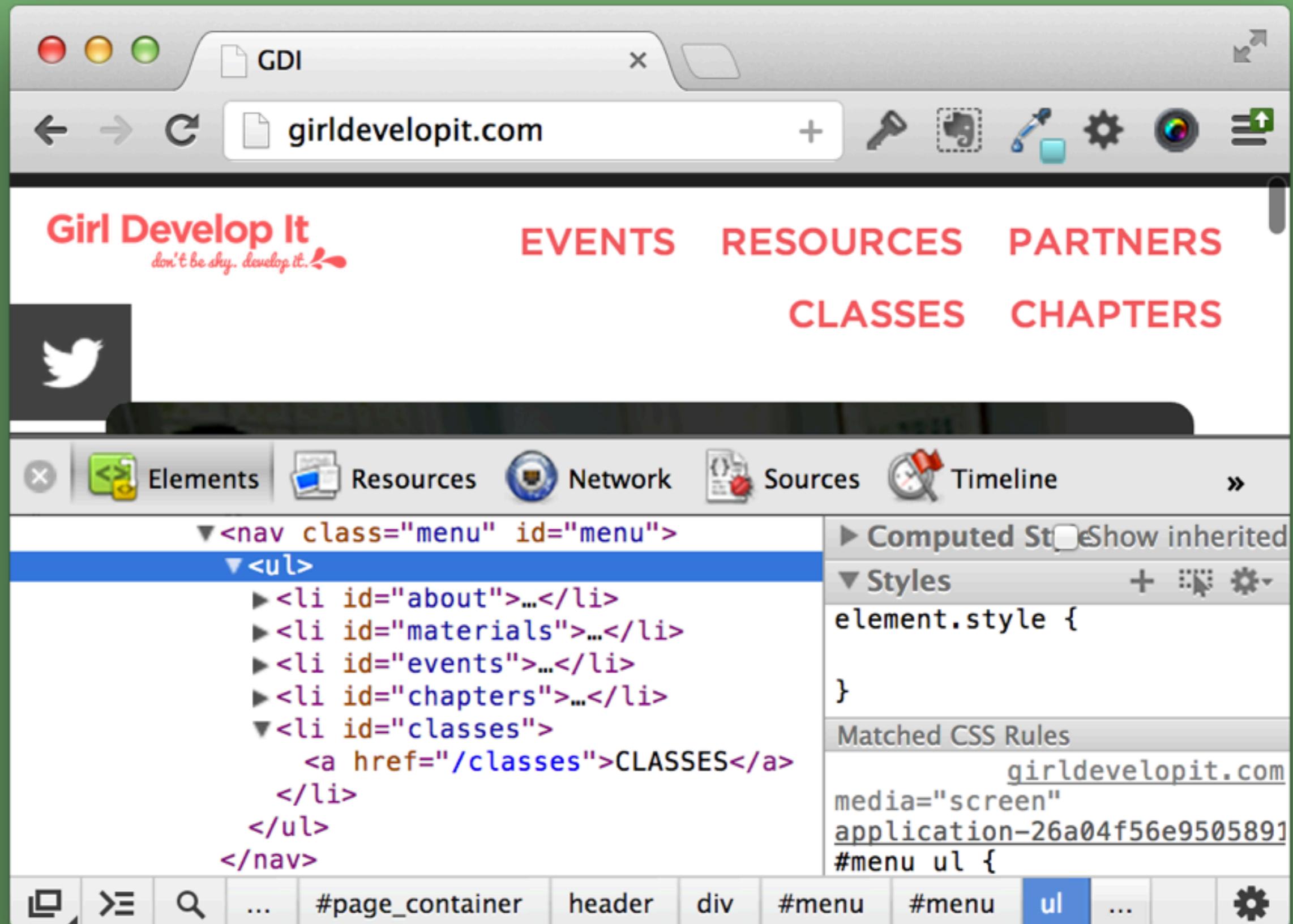
- Item 1
- Item 2

Ordered list

1. Item 1
2. Item 2

ACTIVITY: UL FOR NAVIGATION

1. Go to <http://www.girldevelopit.com>
2. Inspect the navigation using the Chrome Developer Tools



HTML REFERENCES

- › Mozilla Developer Network
- › HTML Dog

PROJECT REQUIREMENTS

Goal: Create a personal web site with articles

PROJECT REQUIREMENTS

- Who is your audience?
- Things to include:
 - Page title (e.g. your name)
 - Navigation - on top and bottom of page
 - An “about me” section
 - Several articles

ACTIVITY: SKETCH YOUR SITE LAYOUT

1. Sketch your site layout
2. Take notes
3. Think about:
 - a) Content areas
 - b) Information hierarchy
 - c) Purpose and audience

A hand-drawn wireframe of a website layout on a 960 grid system. The layout consists of a header, a main content area with three columns, and a footer.

Header: Julie Pagan, home, github, resume, gdipgh

Main Content Area:

- Column 1: Girl Develop IT Pittsburgh
- Column 2: Responsive Web Design
- Column 3: My favorite films

Footer: home, github, resume, gdipgh

Right Side Notes:

- 12 columns
- My Site
- Header's
- Navigation & home, github, resume, gdipgh
- About me: image, text, social links
- Articles: GDI, responsive, films
- Footer: repeat nav

960 GRID SYSTEM
Grid system available for free: www.960.gs

LOREM IPSUM

Lorem Ipsum

"Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit..."
"There is no one who loves pain itself, who seeks after it and wants to have it, simply because it is pain..."

what is Lorem Ipsum?

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

where does it come from?

Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, *consectetur*, from a Lorem Ipsum passage, and going through the cites of the word in classical literature, discovered the undoubtable source. Lorem Ipsum comes from sections 1.10.32 and 1.10.33 of "de Finibus Bonorum et Malorum" (The Extremes of Good and Evil) by Cicero, written in 45 BC. This book is a treatise on the theory of ethics, very popular during the Renaissance. The first line of Lorem Ipsum, "Lorem ipsum dolor sit amet..", comes from a line in section 1.10.32.

The standard chunk of Lorem Ipsum used since the 1500s is reproduced below for those interested. Sections 1.10.32 and 1.10.33 from "de Finibus Bonorum et Malorum" by Cicero are also reproduced in their exact original form, accompanied by English versions from the 1914 translation by H. Rackham.

Why do we use it?

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

Where can I get some?

There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable. If you are going to use a passage of Lorem Ipsum, you need to be sure there isn't anything embarrassing hidden in the middle of text. All the Lorem Ipsum generators on the Internet tend to repeat predefined chunks as necessary, making this the first true generator on the Internet. It uses a dictionary of over 200 Latin words, combined with a handful of model sentence structures, to generate Lorem Ipsum which looks reasonable. The generated Lorem Ipsum is therefore always free from repetition, injected humour, or non-characteristic words etc.

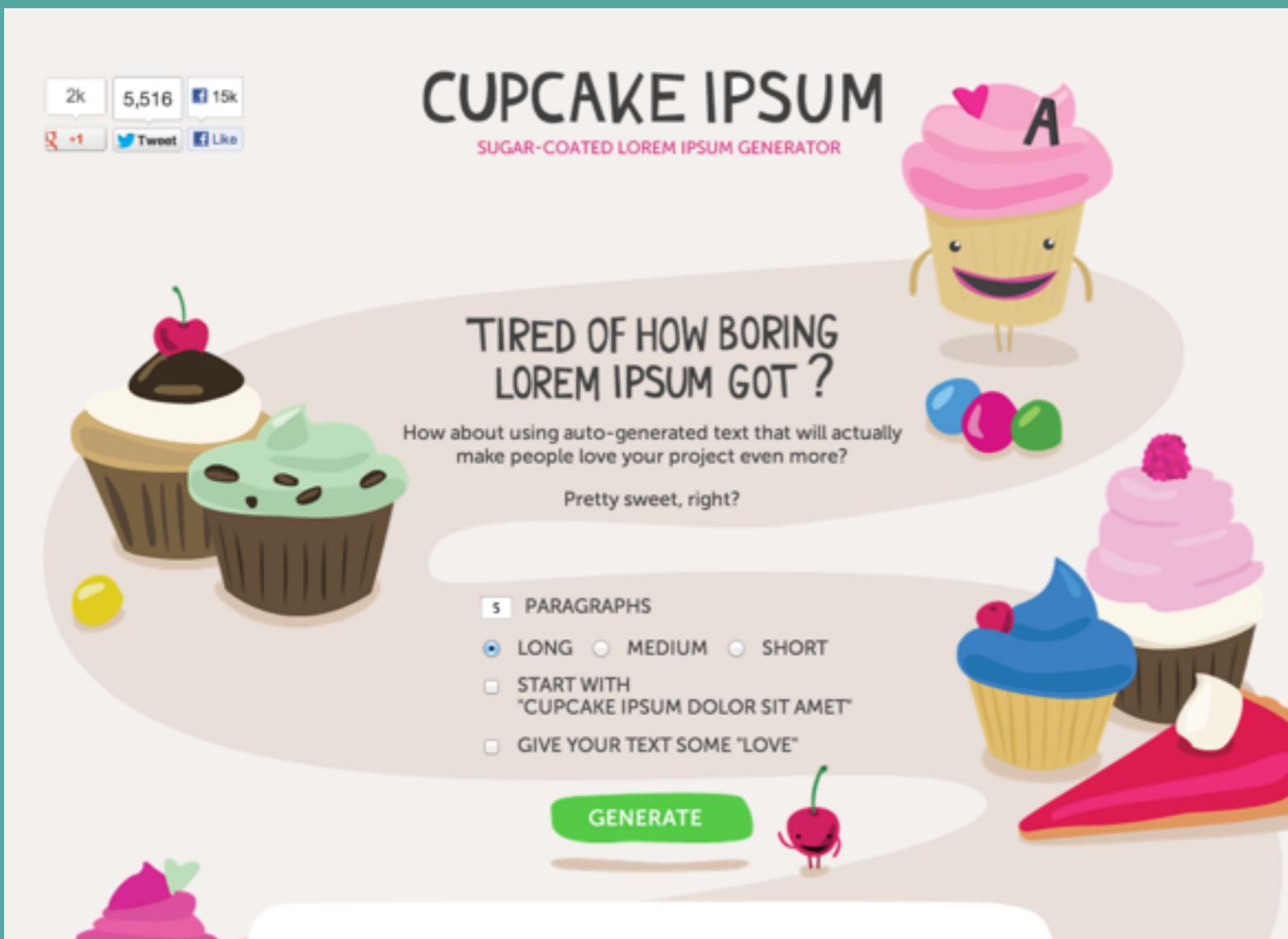
1

paragraphs
 words
 bytes
 lists

Start with 'Lorem ipsum dolor sit amet...'

**Lorem ipsum dolor
sit amet,
consectetur
adipiscing elit.
Quisque
pellentesque felis at
dolor sollicitudin
pellentesque.
Donec adipiscing
posuere pharetra.**

CUPCAKE IPSUM



Cake carrot cake
wypas faworki
carrot cake gummi
bears cupcake
wafer brownie.
Pudding gummies
cotton candy jelly.
Pudding gummies
croissant wypas

ACTIVITY: HTML SITE LAYOUT

1. Build on *index.html*
2. Reference your sketch
3. Use the filler text of your choice to mock content
4. Add real content when you are ready
5. Use HTML references (Mozilla Developer Network)

Julie Pagano

- [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.

- [twitter](#)
- [facebook](#)
- [tumblr](#)
- [linkedin](#)

Girl Develop IT Pittsburgh

Quisque nisl mauris luctus et pulvinar sit amet auctor quis nunc. Quisque a metus neque quis malesuada leo. Suspendisse potenti. Sed ac

HTML & CSS FOR BEGINNERS

Girl Develop IT Pittsburgh

Lindsey Bieda & Julie Pagano

WEEK #2

Introduction to CSS

Lindsey Bieda & Julie Pagano

GOALS FOR TODAY

- ★ Introduction to CSS

CSS

Cascading Style Sheets

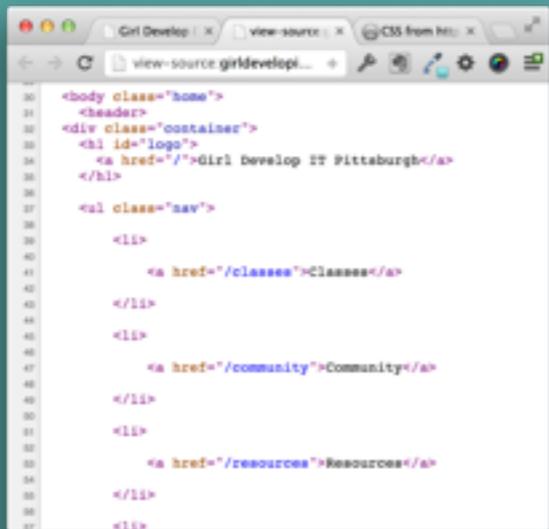
CSS

Presentation and styling of the HTML document

HTML + **CSS**

Structure + **Style**

HTML



```
<body class="home">
<header>
<div class="container">
<h1 id="logo">
  <a href="/">Girl Develop It Pittsburgh</a>
</h1>

<ul class="nav">
  <li>
    <a href="/classes">Classes</a>
  </li>
  <li>
    <a href="/community">Community</a>
  </li>
  <li>
    <a href="/resources">Resources</a>
  </li>
  <li>
```

+

CSS



```
/*
  Welcome to Compass.
  In this file you should write your main styles. (or central)
  Import this file using the following HTML or equivalent:
  @import url("../stylesheets/screen.css");
  media: screen, projection;
  */

  /* Line 17, vendor-prefixes/rvm/gems/ruby-1.9.3-p194/giridev/p
  html, body, div, span, applet, object, iframe,
  h1, h2, h3, h4, h5, h6, p, blockquote, pre,
  a, abbr, acronym, address, big, cite, code,
  del, dfn, em, img, ins, kbd, q, samp,
  small, strike, strong, sub, sup, tt, var,
  b, u, i, center,
  dl, dt, dd, ol, ul, li,
  fieldset, form, label, legend,
  table, caption, tbody, tfoot, thead, tr, th, td,
  article, aside, canvas, details, embed,
  figure, figcaption, footer, header, hgroup,
  menu, nav, output, ruby, section, summary,
  time, mark, audio, video {
    margin: 0;
    padding: 0;
    border: 0;
    font: inherit;
    font-size: 100%;
    vertical-align: baseline;
  }

  /* Line 22, vendor-prefixes/rvm/gems/ruby-1.9.3-p194/giridev/p
  html {
```

=



CSS ZEN GARDEN

css Zen Garden

The Beauty of CSS Design

A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the box to load it into this page. Download the sample [html.zip](#) and [css.zip](#).

The Road to Enlightenment

Loving a dark and shiny road lay the path of the Zen Garden user to realize, inspire, and encourage participation. To begin, view some of the existing designs by clicking on any style sheet link the style sheet into this very page. This sheet contains the entire menu that has changed in the original: use the [Visi](#), [mobi](#).

The [One True Zen](#) design uses colors and textures on the important issues of the moment. Begin in [zen-with-clarity](#). Learn to use the [zen-floated](#) techniques in later and draggier designs. Because one with the web.

So What's This About?

There is clearly a need for CSS to be taken seriously by graphic artists. The Zen Garden aims to realize, inspire, and encourage participation. To begin, view some of the existing designs by clicking on any style sheet link the style sheet into this very page. This sheet contains the entire menu that has changed in the original: use the [Visi](#), [mobi](#).

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated is by demonstrating what can really be done: once the styles are placed in the heads of these sites to create beauty from scratch. To show, more examples of real-life links and links have been demonstrated by association and order. Designers here can make these mock. This needs to change.

Participation

Graphics author-only please. You are modifying this page, so anyone WYSIWYG is necessary, but the example files are commented well enough that most CSS novices can find an starting point. Please see the [CSS Resources](#) for advanced tutorials and tips on working with CSS.

You may modify the style sheet in any way you wish, but use the HTML. This may seem daunting at first if you've never worked this way before, but follow the listed links or have more, and the sample files as a guide.

Download the sample [html.zip](#) and [css.zip](#) in words on a copy folder. Once you have completed your masterpiece (and please, don't submit half-baked designs) send it to [me](#) at [zeldar@zeldar.com](#) and the sample files to the end of the file choose to it, we will splice the associated images. Final submissions will be placed on our website.

Benefits

We would like to see as much CSS as possible. CSS2 should be limited to visibly supported elements only. The [One True Zen](#) is about functional, practical CSS and not the latest bleeding edge styles elements by 2% of the browser's public. The only real requirement is that they are valid CSS.

Requirements

Enthusiasm: Designing this way highlights the flaws in the various implementations of CSS. Different browsers display differently, even completely differently at times, and this becomes frustrating when a site has one look in one location. View the [Resources](#) page for information on some of the tools available. Full browser compliance is still something a user dreams, and we do not expect you to come up with pixel perfect product code since every publisher does not do so as many as you can. If some design doesn't work in at least IE5+Win and Mozilla (use by over 80% of the population), chances are we won't accept it.

We ask that you submit original artwork. Please respect copyright laws. Please keep copyrighted material to a minimum; useful quality is acceptable, margins typography will be rejected.

This is a learning exercise as well as a demonstration. You must full copyright on your graphics (with limited exceptions, see [Submission Guidelines](#)), but not all you submit your CSS under a Creative Commons license directed to the [css Zen](#) site or that others may learn from your work.

Bandwidth graciously donated by [ZedNet](#)

Send us a new

Select a Design:

- [Sample_P1](#) by [Erica](#)
- [Sample_P2](#) by [Erica](#)
- [Sample_P3](#) by [Erica](#)
- [Sample_P4](#) by [Erica](#)
- [Sample_P5](#) by [Erica](#)
- [Sample_P6](#) by [Erica](#)
- [Sample_P7](#) by [Erica](#)
- [Sample_P8](#) by [Erica](#)

Archives:

- [Visi](#)
- [mobi](#)
- [XHTML](#)
- [CSS Resources](#)

Resources:

- [View This Design's CSS](#)
- [CSS Resources](#)
- [FAQ](#)
- [Submit a Link](#)
- [Translations](#)



CsZaGarden
The beauty of CSS design

[View This Design's CSS](#)

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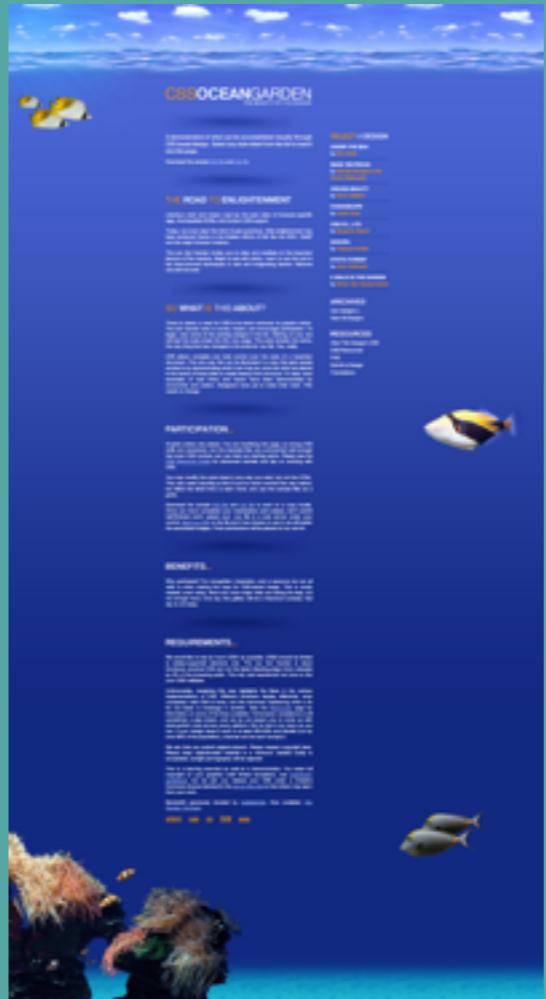
- [Sample_P1](#) by [Erica](#)
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- [Sample_P3](#) by [Erica](#)
- [Sample_P4](#) by [Erica](#)
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CSS OCEANGARDEN

A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the box to load it into this page. Download the sample [html.zip](#) and [css.zip](#).

The Road to Enlightenment

Creating a dark and shiny road lay the path of the Zen Garden user to realize, inspire, and encourage participation. To begin, view some of the existing designs by clicking on any style sheet link the style sheet into this very page. This sheet contains the entire menu that has changed in the original: use the [Visi](#), [mobi](#).

The [One True Zen](#) design uses colors and textures on the important issues of the moment. Begin in [zen-with-clarity](#). Learn to use the [zen-floated](#) techniques in later and draggier designs. Because one with the web.

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CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated is by demonstrating what can really be done: once the styles are placed in the heads of these sites to create beauty from scratch. To show, more examples of real-life links and links have been demonstrated by association and order. Designers here can make these mock. This needs to change.

Participation

Graphics author-only please. You are modifying this page, so anyone WYSIWYG is necessary, but the example files are commented well enough that most CSS novices can find an starting point. Please see the [CSS Resources](#) for advanced tutorials and tips on working with CSS.

You may modify the style sheet in any way you wish, but use the HTML. This may seem daunting at first if you've never worked this way before, but follow the listed links or have more, and the sample files as a guide.

Download the sample [html.zip](#) and [css.zip](#) in words on a copy folder. Once you have completed your masterpiece (and please, don't submit half-baked designs) send it to [me](#) at [zeldar@zeldar.com](#) and the sample files to the end of the file choose to it, we will splice the associated images. Final submissions will be placed on our website.

Benefits

We would like to see as much CSS as possible. CSS2 should be limited to visibly supported elements only. The [One True Zen](#) is about functional, practical CSS and not the latest bleeding edge styles elements by 2% of the browser's public. The only real requirement is that they are valid CSS.

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css Zen Garden

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ONE HTML PAGE, MANY STYLESHEETS

ADDING CSS TO HTML: INLINE

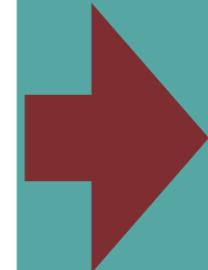
```
<!DOCTYPE html>
<html>
  <head></head>
  <body>
    <h1 style="color: red;">red title!</h1>
  </body>
</html>
```

ADDING CSS TO HTML: EMBEDDED

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      h1 { color: red; }
    </style>
  </head>
  <body>
    <h1>>red title!</h1>
  </body>
</html>
```

ADDING CSS TO HTML: LINKED

```
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet"
          type="text/css"
          href="style.css" />
  </head>
  <body>
    <h1>red title!</h1>
  </body>
</html>
```

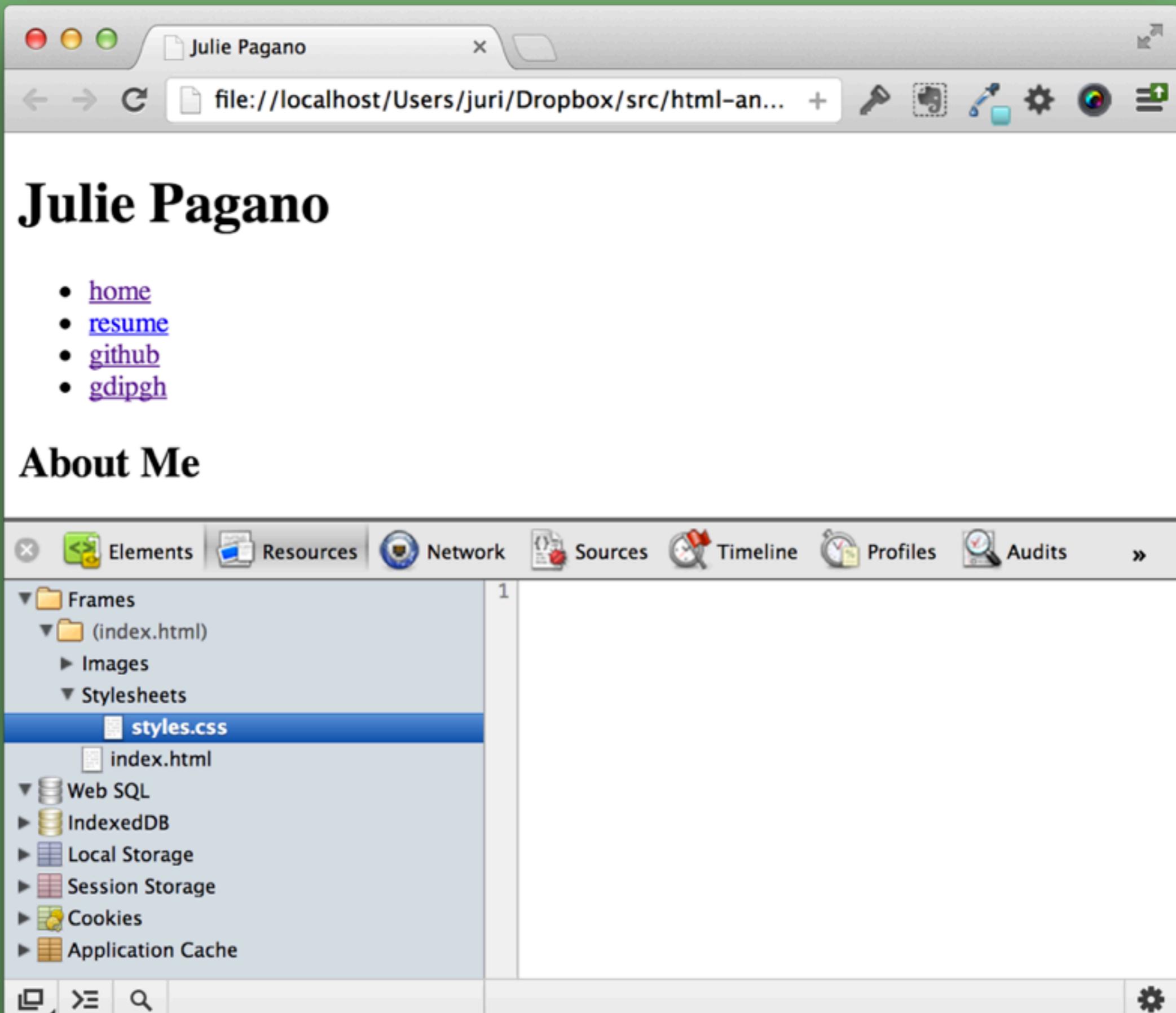


style.css

```
h1 {
  color: red;
}
```

ACTIVITY: SET UP SITE CSS

1. Create a folder named “styles” in your working directory to hold stylesheets
2. Create *styles.css* in the styles directory
3. Link to *styles.css* in <head>
4. Use the developer tools to check your work



ID ATTRIBUTE

```
<div id="header">  
    some content  
</div>
```

- › Unique identifier
- › A document can only have one of each id
- › Begin with a letter and followed by any number of letters, numbers, hyphens, underscores

CLASS ATTRIBUTE

```
<div class="code highlighted">  
    some content  
</div>
```

- › Multiple elements can share a class
- › Element can have multiple classes separated by a space
- › Begin with a letter and followed by any number of letters, numbers, hyphens, underscores

NAMING CLASSES AND IDS

- › **Do** describe what it is for
- › **DO NOT** describe what it looks like
- › Use a name that will make sense to you in the future

EXAMPLES OF BAD NAMES

- › bigText
- › red
- › leftColumn
- › underlined

EXAMPLES OF GOOD NAMES

- › header
- › footer
- › alert
- › copyright
- › navigation

ANATOMY OF THE CSS RULE

```
selector {  
    property: value;  
}
```

SELECTOR

```
selector {  
    property: value;  
}
```

PROPERTY

```
selector {  
  property: value;  
}
```

VALUE

```
selector {  
    property: value;  
}
```

DECLARATION

```
selector {  
  property: value;  
}
```

RULE

```
selector {  
    property: value;  
}
```

SELECTOR: ELEMENT

```
div {  
  property: value;  
}
```

Selects all **div** elements

```
<div>foo</div>  
<div>bar</div>
```

Example of selected HTML elements

SELECTOR: ID

```
#header {  
    property: value;  
}
```

Selects all elements with the id “**header**”

```
<div id="header">  
    Welcome!  
</div>
```

Example of selected HTML element

SELECTOR: CLASS

```
.tip {  
  property: value;  
}
```

Selects all elements with the class “tip”

```
<span class="tip">HTML gives sites structure.</span>  
<span class="tip">CSS makes sites pretty.</span>
```

Example of selected HTML elements

SELECTOR: POSITION

```
p span {  
  property: value;  
}
```

Selects all span elements that are in a paragraph.

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

Example of selected HTML elements

PROPERTY VALUES

Properties have one or more comma separated values

```
p {  
  font-size: 14px;  
  font-weight: normal;  
  font-family: Arial, sans-serif;  
}
```

PROPERTY: FONT-FAMILY

Defines which font is used

```
p {  
  font-family: 'Open Sans';  
  font-family: serif;  
  font-family: "Arial", sans-serif;  
}
```

- › Specific font name
- › Generic name
- › Comma separated list

PROPERTY: FONT-WEIGHT

Defines the weight or boldness of the font

```
p {  
  font-weight: normal;  
  font-weight: 400;  
  font-weight: bold;  
  font-weight: 700;  
}
```

- › Named weight
- › Numeric weight

PROPERTY: FONT-SIZE

Specifies the size of the font

```
p {  
  font-size: 12px;  
}
```

SHORTHAND PROPERTY: FONT

```
p {  
  font-style: italic;  
  font-weight: bold;  
  font-size: 14px;  
  font-family: sans-serif;  
}
```

can also be written as

```
p {  
  font: italic bold 14px sans-serif;  
}
```

ACTIVITY: PICK A FONT

1. Go to <http://www.google.com/webfonts>
2. Select a font and click “**quick use**”
3. Check the font styles you want
4. Add the standard code to <head> in *index.html*
5. Set the font-family on the body in *style.css*
6. Use the developer tools to check your work

The screenshot shows a web browser window with the title "Julie Pagano". The address bar displays "file:///localhost/Users/juri/Dropbox/src/html-and-css-for-...". The main content area shows a large heading "Julie Pagano" and a navigation menu with three items: "home", "resume", and "github". Below the content is the browser's developer tools panel.

Elements Tab:

```
<!DOCTYPE html>
<html>
  <head>...</head>
  <body>
    <div>...</div>
    <div>...</div>
    <div>...</div>
  </body>
</html>
```

Styles Panel:

Computed Style □ Show inherited

Styles

```
element.style {
```

}

Matched CSS Rules

```
body { styles.css:1
  font-family: 'Open Sans', sans-serif;
}

body { user agent stylesheet
  display: block;
  margin: 8px;
}
```

► Metrics
► Properties
► DOM Breakpoints
► Event Listeners

Toolbar icons at the bottom include: back, forward, search, and tabs for "html" and "body".

PROPERTY: COLOR

Defines the color of the text

```
p {  
  color: blue;  
  color: #0000FF;  
  color: rgb(0, 0, 255);  
}
```

- › Named color
- › Hexadecimal (hex) color
- › Red Green Blue (rgb) color

PROPERTY: BACKGROUND-COLOR

Defines the color of the background

```
p {  
  background-color: red;  
  background-color: #FF0000;  
  background-color: rgb(255, 0, 0);  
}
```

- › Named color
- › Hexadecimal (hex) color
- › Red Green Blue (rgb) color

ACTIVITY: COLOR SCHEMES

1. Go to <http://colorschemedesigner.com/>
2. Pick a color you like and a scheme (e.g. triad)
3. Take a look at the light/dark page examples
4. Add color styles to *style.css*
 - a) Add ids or classes to HTML, as needed
 - b) Set the background color for the body, header, footer
 - c) Set the text color
 - d) Set the color for links
5. Inspect the color styles in the developer tools

Color Scheme Designer

2002-2010 © Petr Stanicek • v3.51 • [Blog & News](#)

Undo Redo Random Colorblind Color space Export Help

CREATE FREE STUNNING WEBSITES GO >

mono complement triad tetrad analogic accented analogic

Hue: 215° Angle: 30°

warm cold

R: 2 % G: 51 % B: 62 %

RGB: 04819E

Preview Light page example Dark page example

Show sample text

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The screenshot shows the main interface of the Color Scheme Designer. At the top, there's a navigation bar with links for Undo, Redo, Random, Colorblind, Color space, Export, and Help. Below the title, it says "2002-2010 © Petr Stanicek • v3.51 • Blog & News". On the right side, there's an advertisement for creating free stunning websites with a "GO >" button. Below the title, there are six small circular icons representing different color palette types: mono, complement, triad, tetrad, analogic, and accented analogic. The main area features a large color wheel on the left with "Hue: 215°" and "Angle: 30°" labels. The wheel has "warm" at the top and "cold" at the bottom. A color palette is displayed below the wheel with the hex code "04819E". On the right, there are four preview swatches (cyan, blue, green, teal) and a "Scheme ID: 3n51Tw0w0w0w0" label. Below the swatches is a large preview area showing a grid of colored squares. At the bottom, there are buttons for "Preview", "Light page example", and "Dark page example". A "Show sample text" link is also present. At the very bottom, there's a "Do you like this app?" message with a "Donate" button, and a "Related" section with links to logo design, wedding invitations, and save-the-dates.

Julie Pagano

file:///localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/06-color-schemes/index.html

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

About Me



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Girl Develop IT Pittsburgh

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PROPERTY: TEXT-DECORATION

Used to set some text formatting

```
p {  
  text-decoration: overline underline;  
}
```

- › Values: none, underline, overline, line-through
- › Multiple values allowed

PROPERTY: TEXT-ALIGN

Determines the alignment of text within an element

```
h1 {  
  text-align: center;  
}
```

- › Values: left, right, center, justify

CSS COMMENTS

Comments are added inside `/* */`

```
/* Header */
#header {
    color: red;
}
```

- › Used for separating sections of styles
- › Used to explain complicated behavior

CSS RESET

- › CSS resets are used to set all styles to the same baseline
- › This is useful for eliminating inconsistencies across browsers

ACTIVITY: SET UP CSS RESET

1. Go to <http://meyerweb.com/eric/tools/css/reset/reset.css>
2. Add css reset to your styles directory
3. Link to reset in <head>
4. View the page in your browser and note the differences

Julie Pagano

← → ⌂ file:///localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/07-css-reset/... + ⚒ 🔍 🖼 ✎ 🛡 🚧 🚶 🚦 🚨 🚫

Julie Pagano
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[Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla. Nam porta pretium ligula eget imperdiet. Quisque nisl mauris, luctus et pulvinar sit amet, auctor quis purus. Quisque a metus neque, quis malesuada leo. Suspendisse potenti. Sed ac elementum quam. Nulla interdum erat feugiat dolor tincidunt pretium. Vivamus id nisl ipsum. Nulla id volutpat sem. Curabitur non orci ante, vel aliquet nisi. Phasellus in nisi in arcu luctus varius. Vivamus hendrerit, dui eu luctus congue, enim mauris sollicitudin diam, eget venenatis elit urna eget est. Vestibulum eu diam mauris.](#)

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[Responsive Web Design](#)

[Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla.](#)

MULTIPLE SELECTORS

```
h1 { font-weight: bold; }  
h2 { font-weight: bold; }
```

Can be combined into

```
h1, h2 {  
  font-weight: bold;  
}
```

PSEUDO-CLASS SELECTORS

```
a { color: blue; }
a:visited { color: green; }
a:hover { color: red; }
```

- › **:hover** selects when user hovers over an element
- › **:visited** selects when user has visited a link

ACTIVITY: PSEUDO-CLASS SELECTORS

1. Add a css rule to modify the color of links on hover
2. Add a css rule to modify the color of visited links

INHERITANCE

Elements can inherit some CSS rules (e.g. font, color) from their parents

WHAT COLOR IS THE TEXT?

```
<div id="main" class="foo">  
  <h1 id="heading" class="bar baz">  
    style sheets!  
  </h1>  
</div>
```

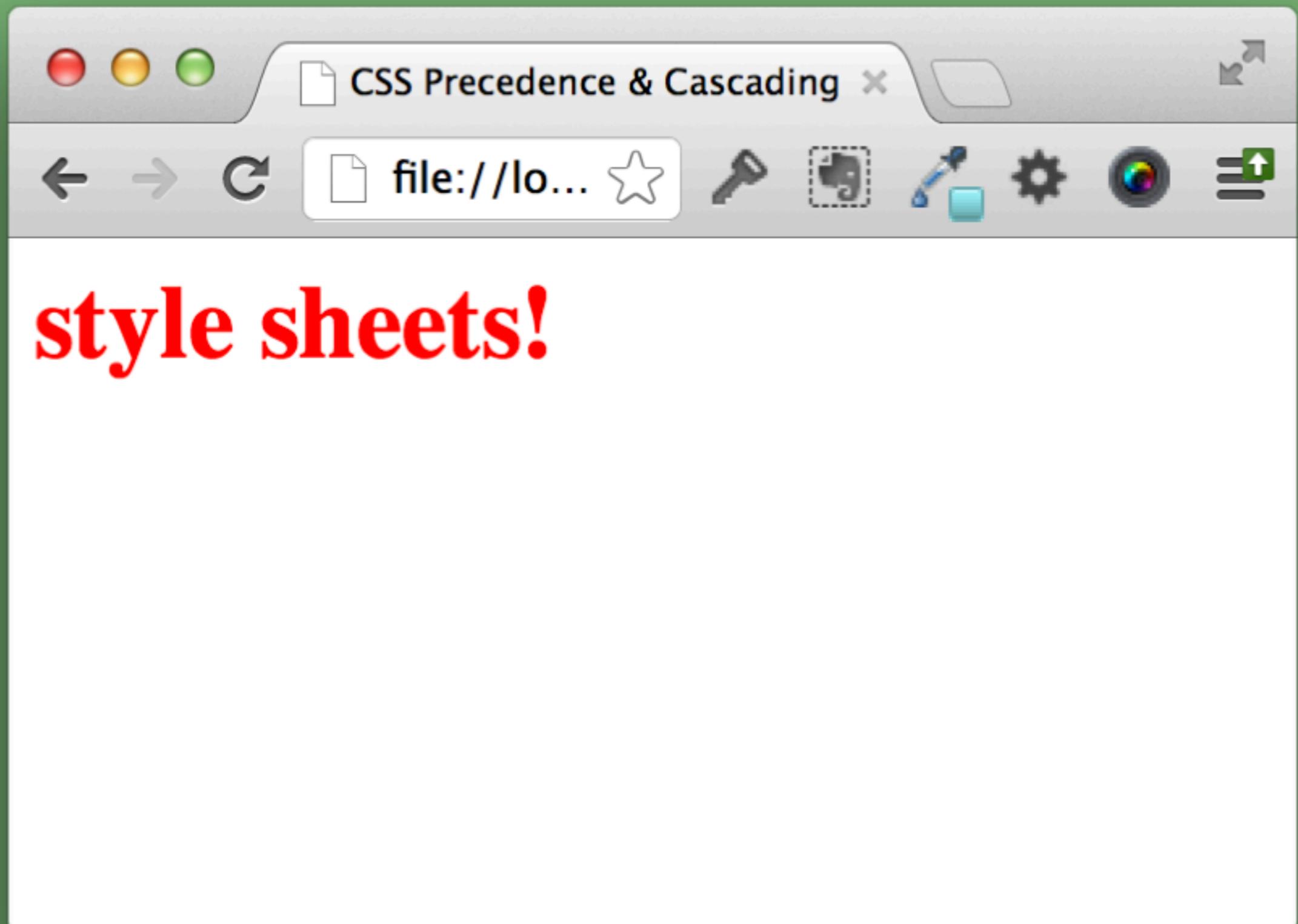
```
#main {  
  color: blue;  
}
```



WHAT COLOR IS THE TEXT?

```
<div id="main" class="foo">  
  <h1 id="heading" class="bar baz">  
    style sheets!  
  </h1>  
</div>
```

```
div {  
  color: blue;  
}  
h1 {  
  color: red;  
}
```



SPECIFICITY

How the browser picks a value when there are multiple rules

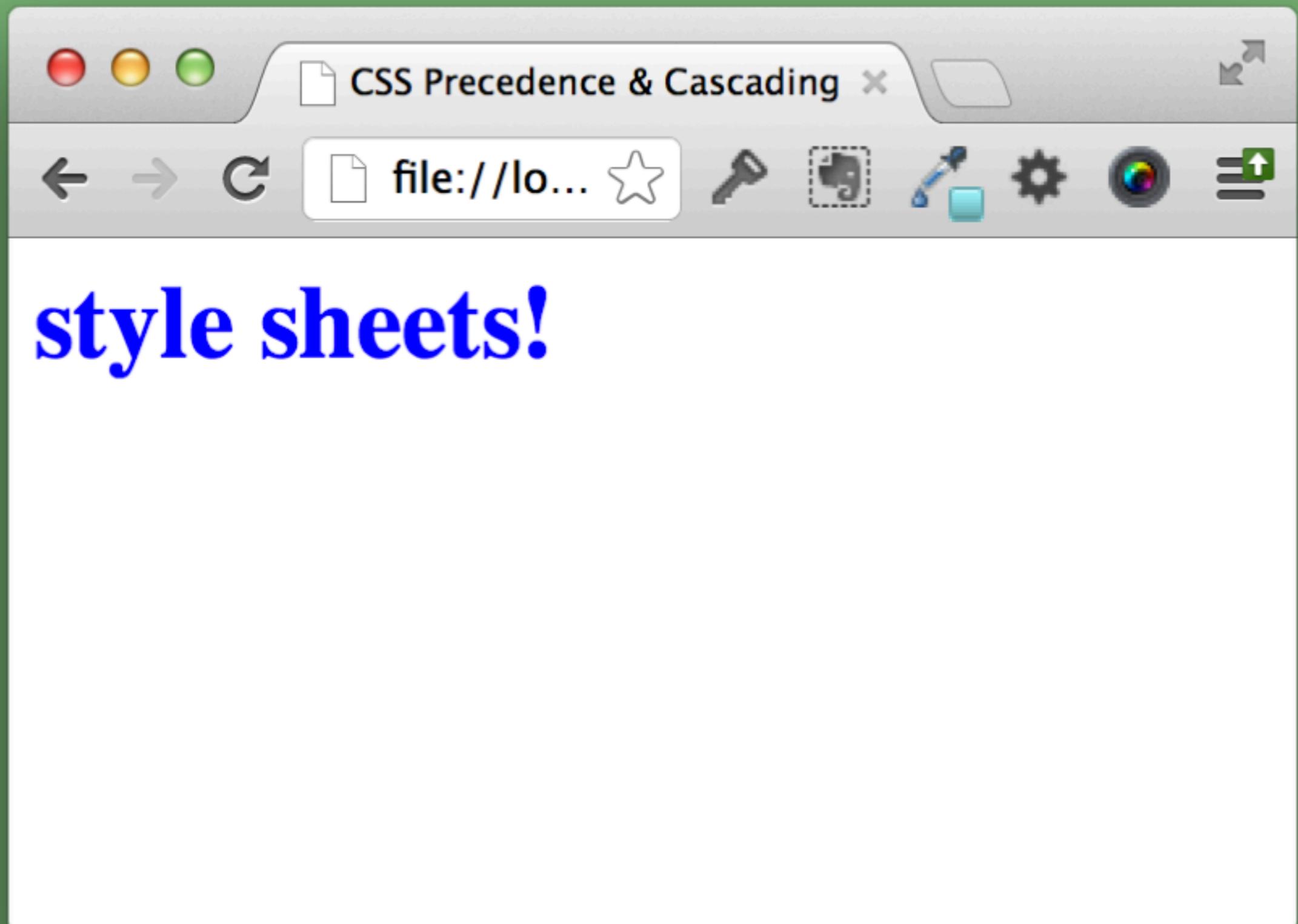
SPECIFICITY

- › Element selectors (least)
- › Class selectors
- › Pseudo-class selectors
- › ID selectors
- › Inline style (most)

WHAT COLOR IS THE TEXT?

```
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

```
#heading {
  color: blue;
}
.bar {
  color: red;
}
```



The screenshot shows the Chrome DevTools interface with the 'Elements' tab selected. The left pane displays the DOM tree:

```
<!DOCTYPE html>
<html>
  <head>...</head>
  <body>
    <div id="main" class="foo">
      <h1 id="heading" class="bar baz">style sheets!</h1>
    </div>
  </body>
</html>
```

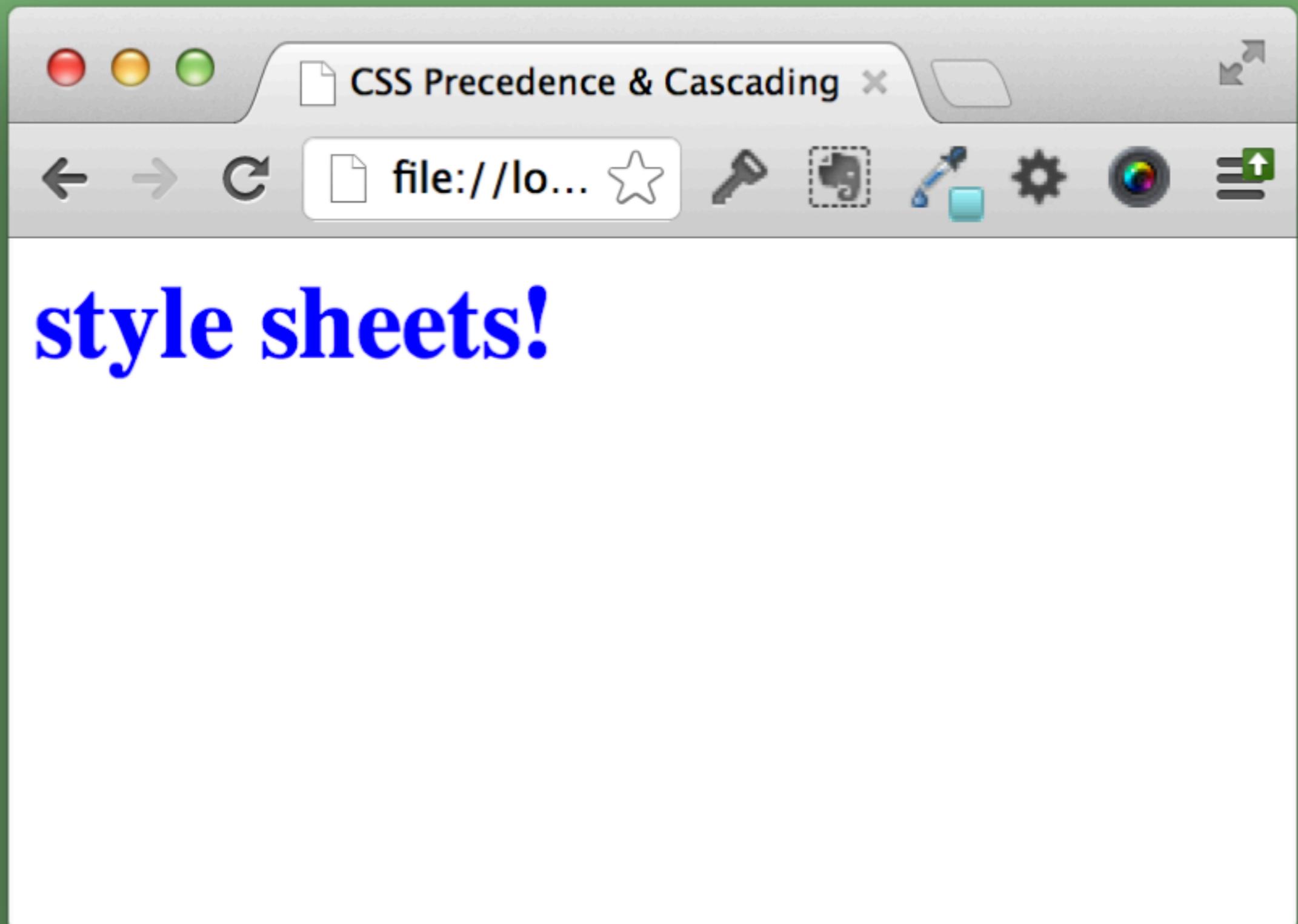
The `h1` element is highlighted with a blue selection bar. The right pane shows the 'Computed Style' panel with the 'Styles' section expanded, displaying the following CSS rules:

- #heading { color: blue; } specificity1.html:6
- .bar { color: red; } specificity1.html:9

WHAT COLOR IS THE TEXT?

```
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

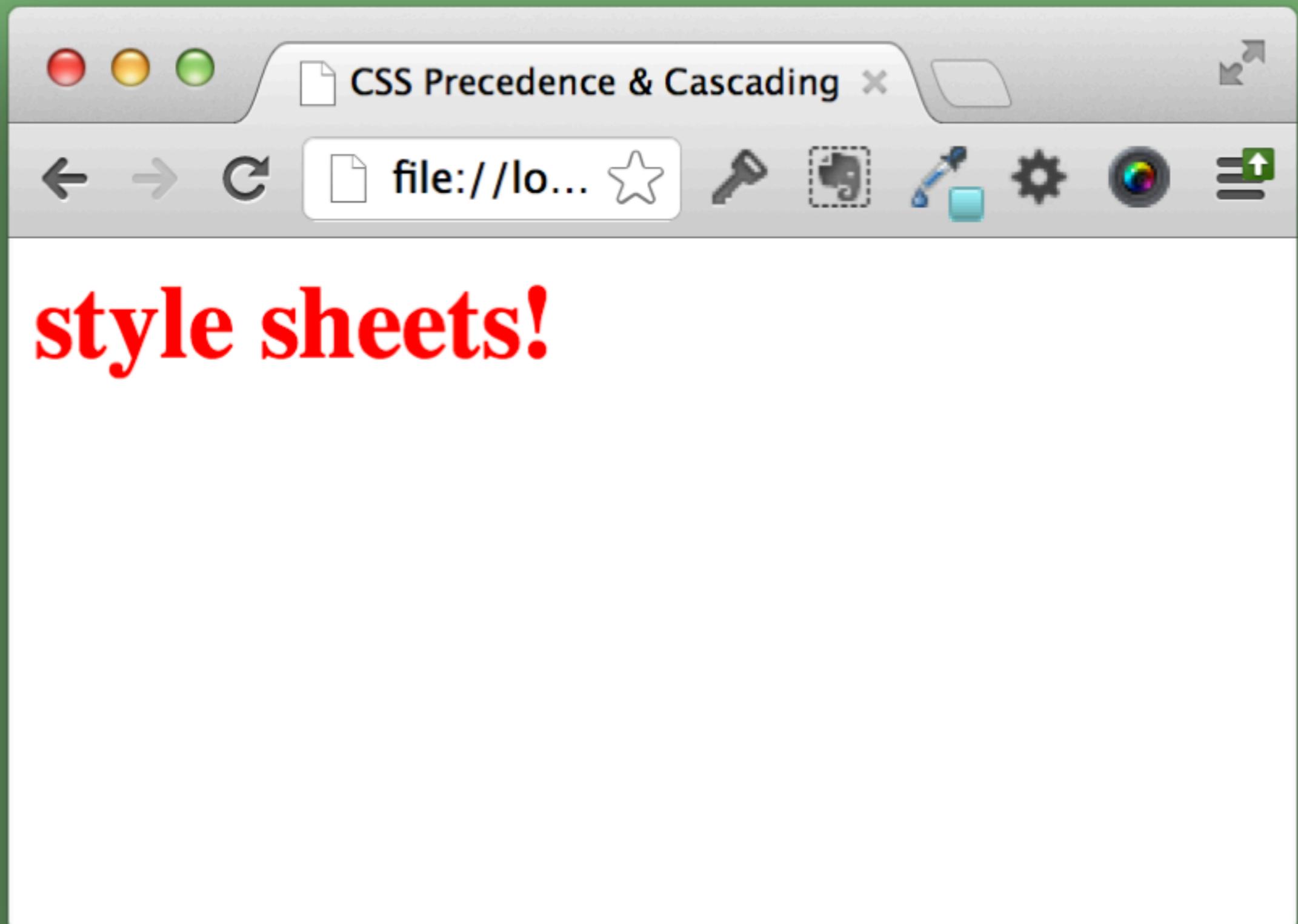
```
.bar.baz {
  color: blue;
}
.bar {
  color: red;
}
```



WHAT COLOR IS THE TEXT?

```
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

```
.bar.baz {
  color: blue;
}
#heading {
  color: red;
}
```



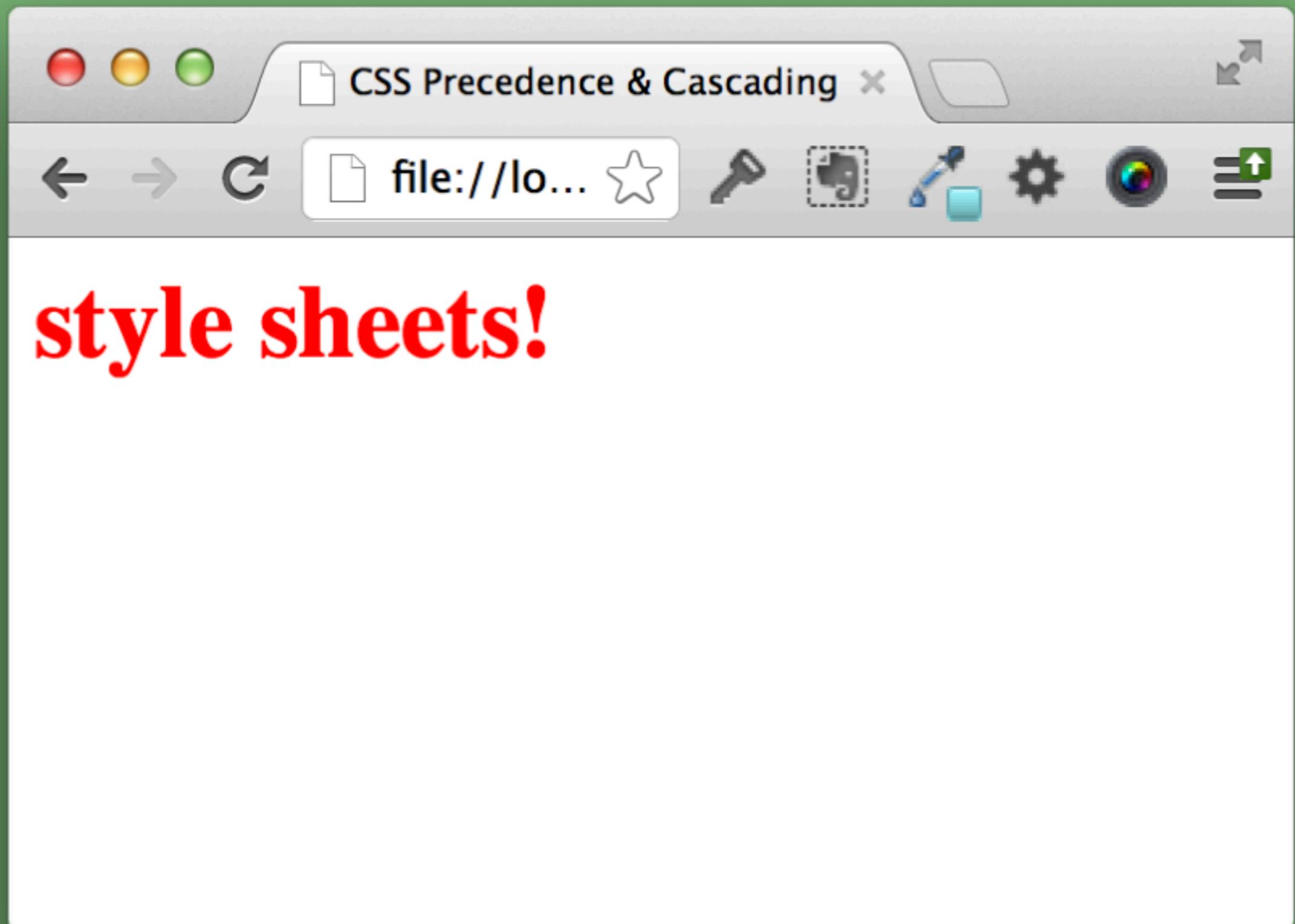
ORDER

Later rules trump earlier rules (assuming equal specificity)

WHAT COLOR IS THE TEXT?

```
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

```
.bar {
  color: blue;
}
.baz {
  color: red;
}
```



!IMPORTANT

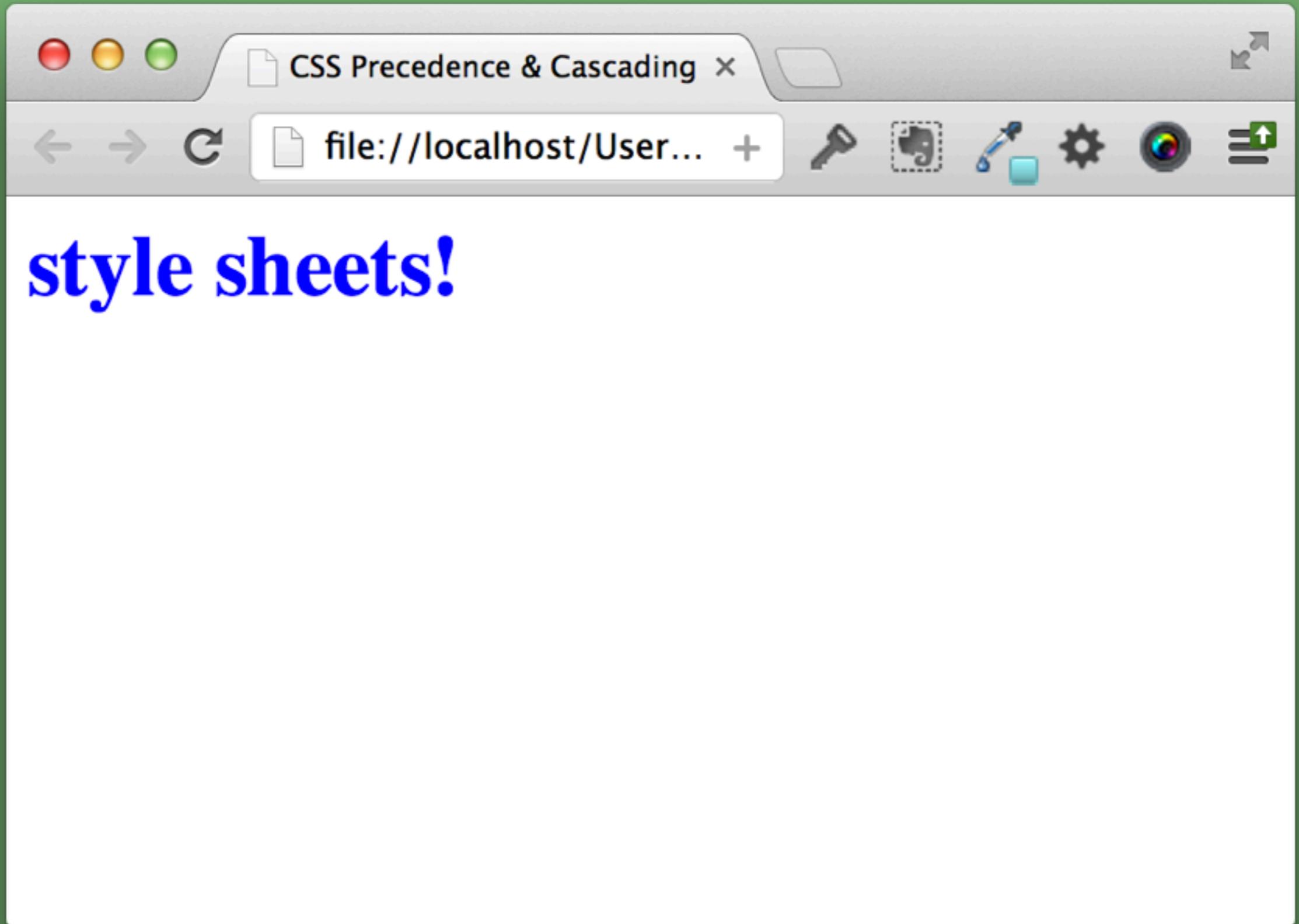
```
h2 {  
  color: red !important;  
}
```

- › Trumps other rules
- › Use sparingly - method of last resort

WHAT COLOR IS THE TEXT?

```
<div id="main" class="foo">
  <h1 id="heading" class="bar baz">
    style sheets!
  </h1>
</div>
```

```
.bar {
  color: blue !important;
}
.baz {
  color: red;
}
```



CSS REFERENCES

- › Mozilla Developer Network
- › HTML Dog

ACTIVITY: CONTINUE SITE

1. Focus on styling
2. Adjust HTML, as needed
3. Use CSS & HTML references (Mozilla Developer Network)

HTML & CSS FOR BEGINNERS

Girl Develop IT Pittsburgh

Lindsey Bieda & Julie Pagano

WEEK #3

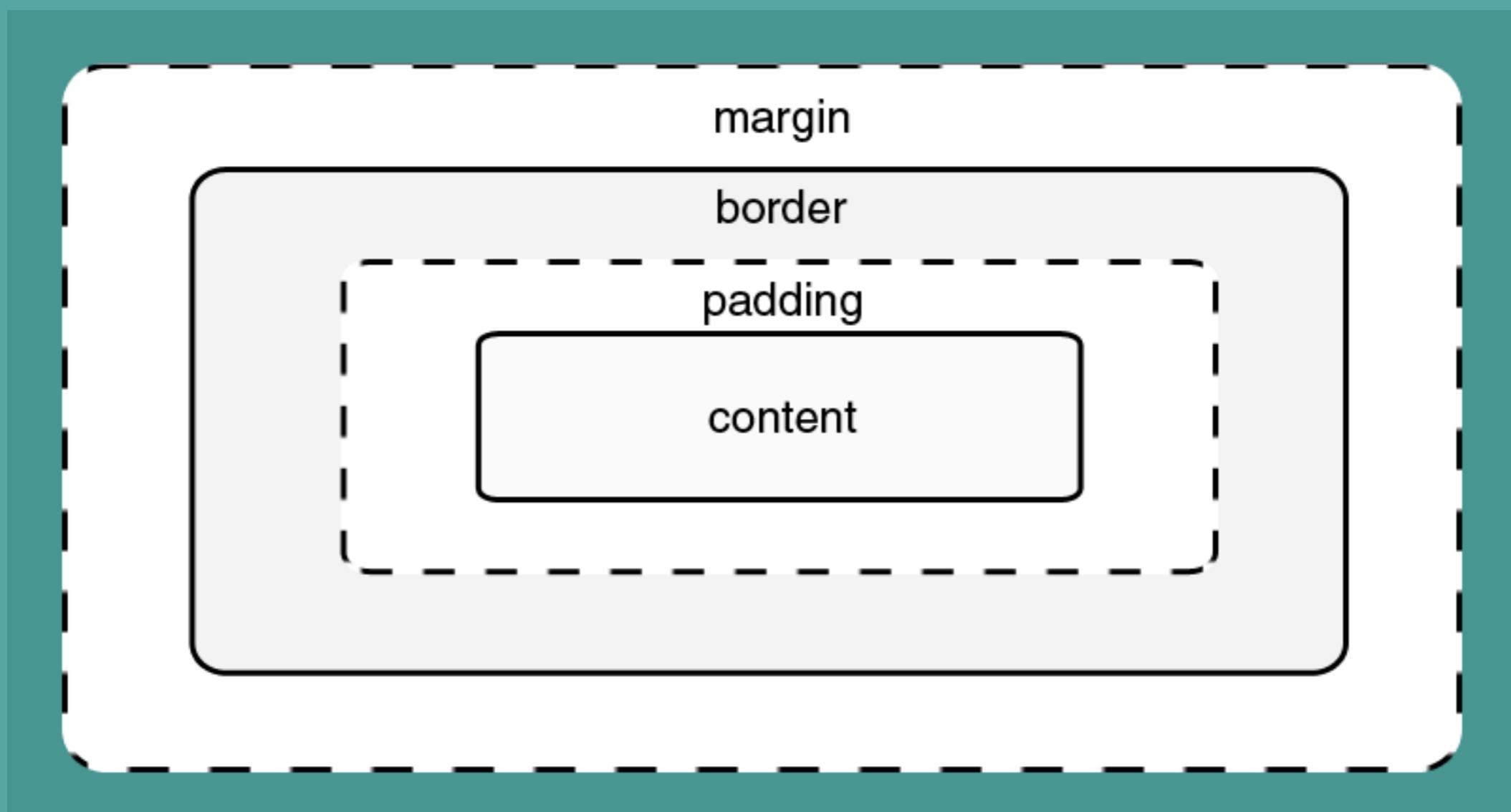
More CSS and Page Layouts

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

The screenshot shows a web browser window titled "Box model example". The address bar indicates the file is located at "file:///localhost/Users/juri/Dropbox/src/html-an...". The browser interface includes standard navigation buttons (back, forward, search) and a toolbar with various icons. The developer tools are open, with the "Metrics" section currently active. This section visualizes the box model for the selected element, showing nested boxes for margin, border, and padding, along with their respective widths and heights. The overall layout consists of a blue outer border, a red inner area, and a central white content area containing the text "BOX MODEL!".

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?

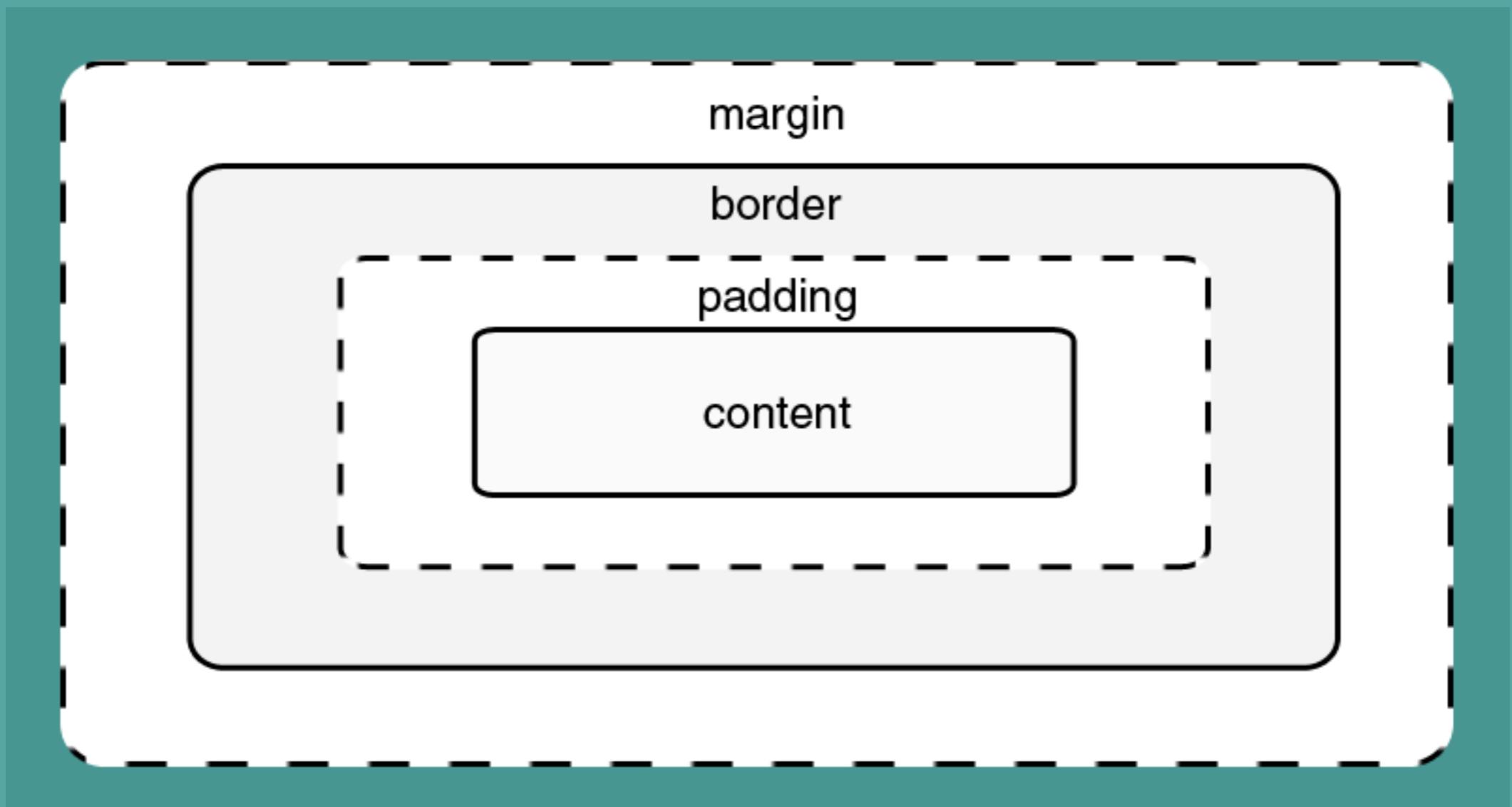
32px

PERCENTS

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

PADDING

Space between the border and the content



The screenshot shows a web browser window with multiple tabs open. The active tab is for the Girl Develop It website, specifically the 'Chapters' section. The page features two main cards: one for the 'NEW YORK' chapter and one for the 'PHILADELPHIA' chapter. Each card includes a thumbnail image, the chapter name in large letters, a subtitle ('Learn more about GDI New York' or 'Learn more about GDI Philadelphia'), and an 'Upcoming' event date.

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

Below the main content, the browser's developer tools are visible, specifically the Elements panel. It shows the HTML structure of the page, with the 'overlay-div' element highlighted. To the right, the 'Matched CSS Rules' panel displays the CSS for this element, including styles from 'application-26a04f56e9505891a71137fa74b665ab.css' and the user agent stylesheet.

```
<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;
```

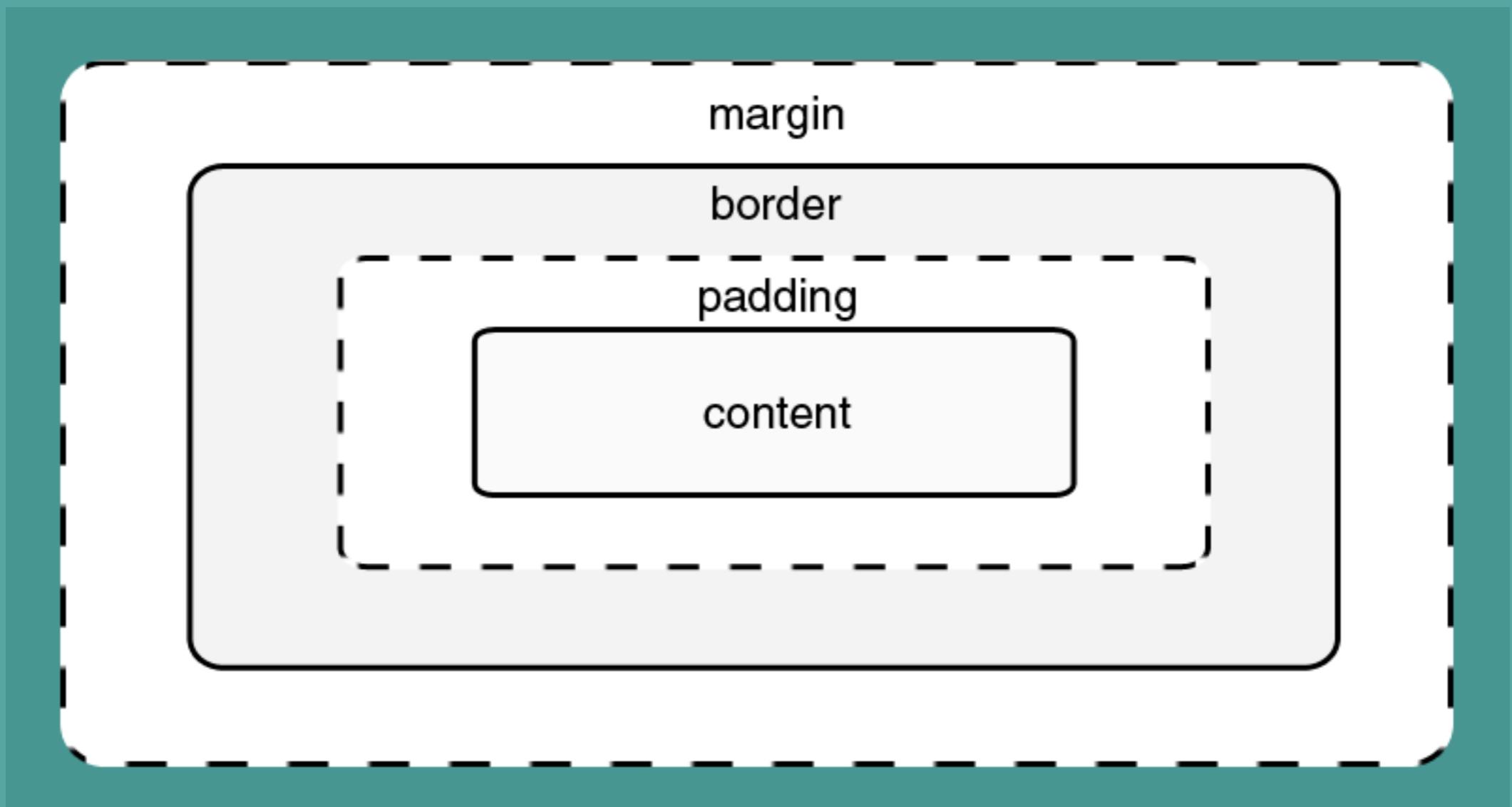
2px top, 4px right, 6px bottom, 8px left

```
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



RESOURCES

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](#)

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;
}

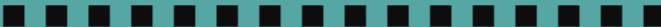
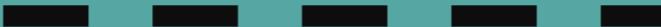
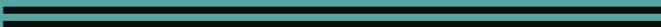
media="screen" materials
application-26a04f56e9505891a71137fa74b665ab.css
h3 {
    font-size: 110%;
```

PROPERTY: BORDER

Text

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

BORDER STYLES

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

ALL TOGETHER NOW

Text

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

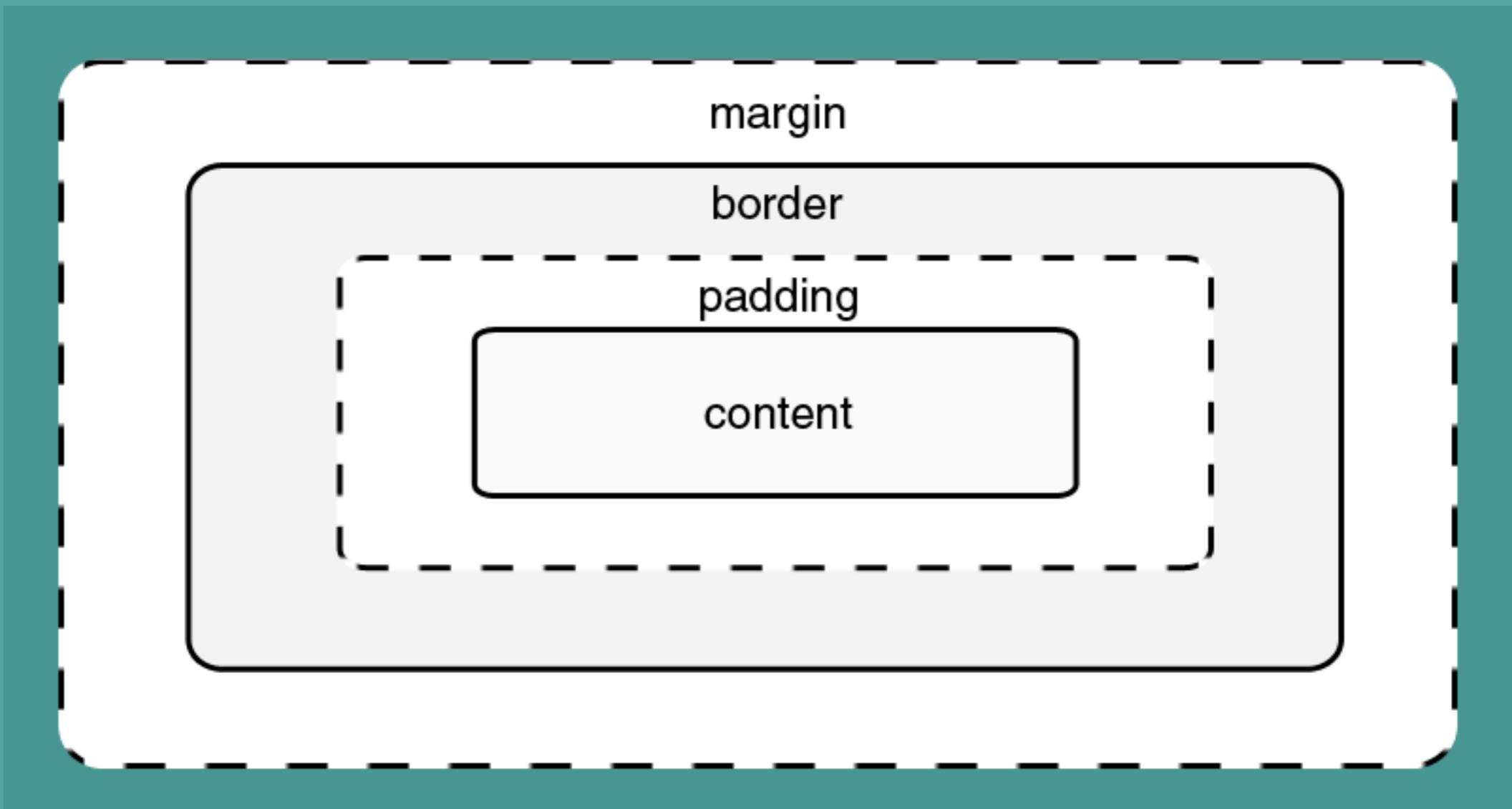
WITH DIRECTION

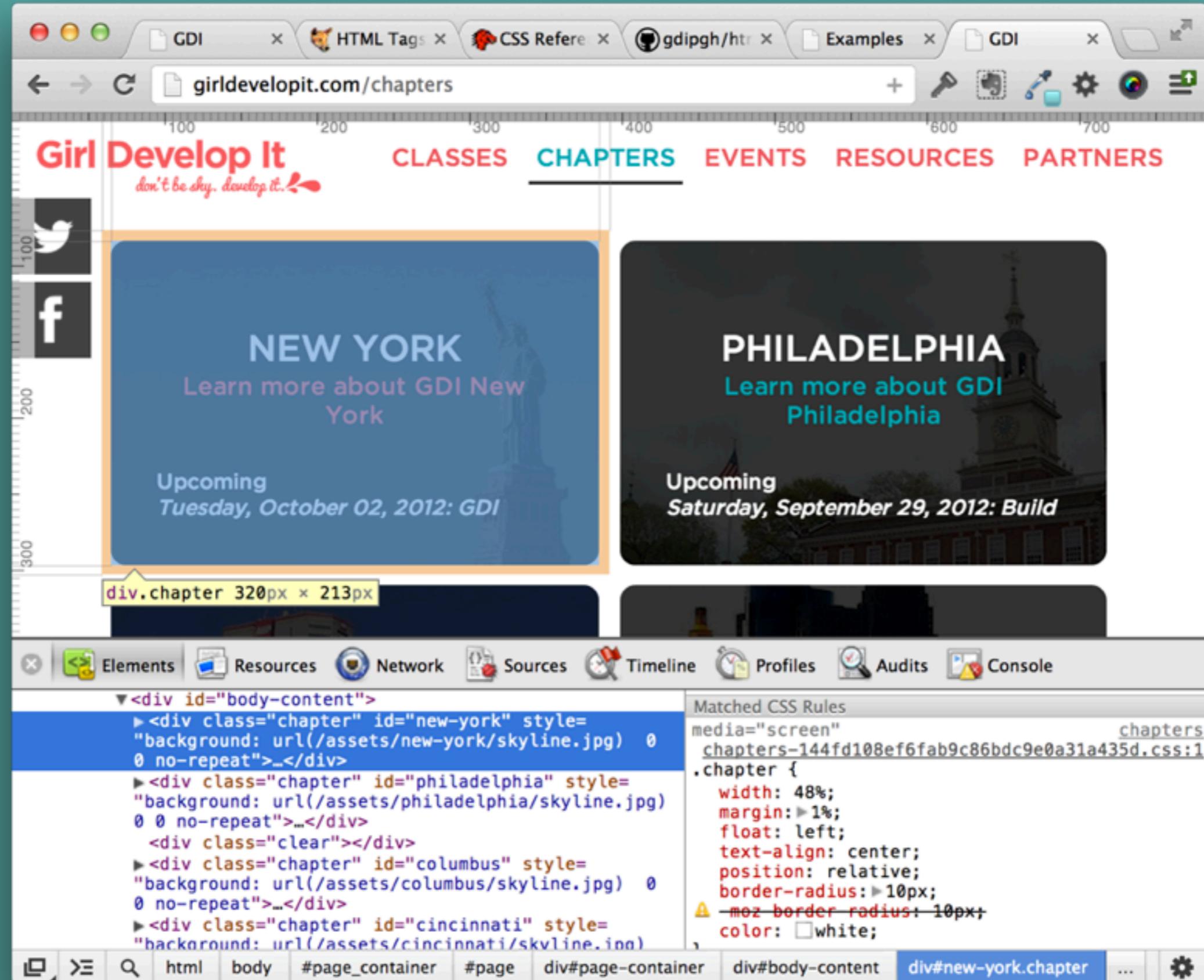
Text

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

MARGIN

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





PROPERTY: MARGIN

```
margin: 5px;
```

5px on all sides

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

5px top/bottom, 10px right/left

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

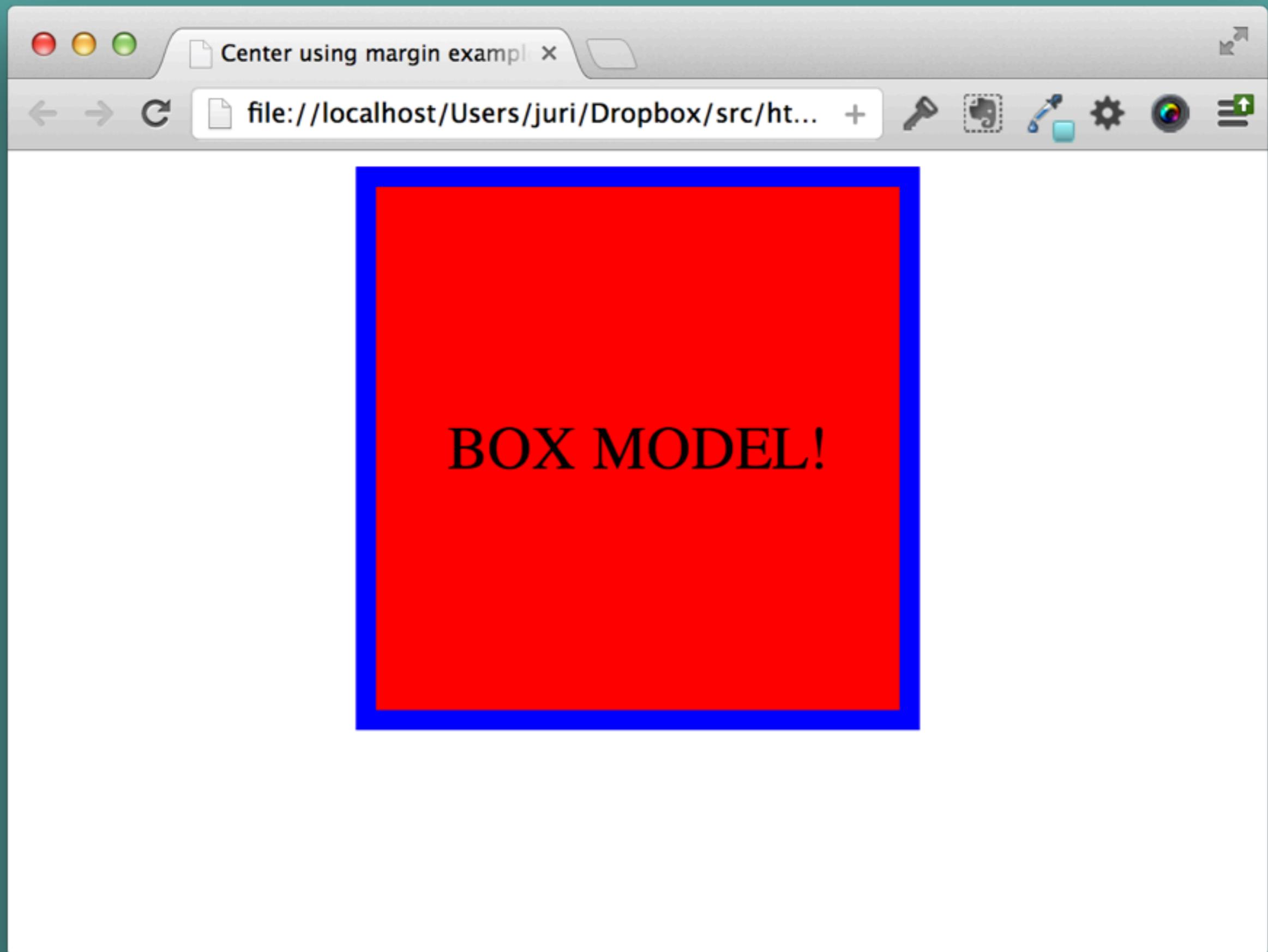
2px top, 4px right, 6px bottom, 8px left

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

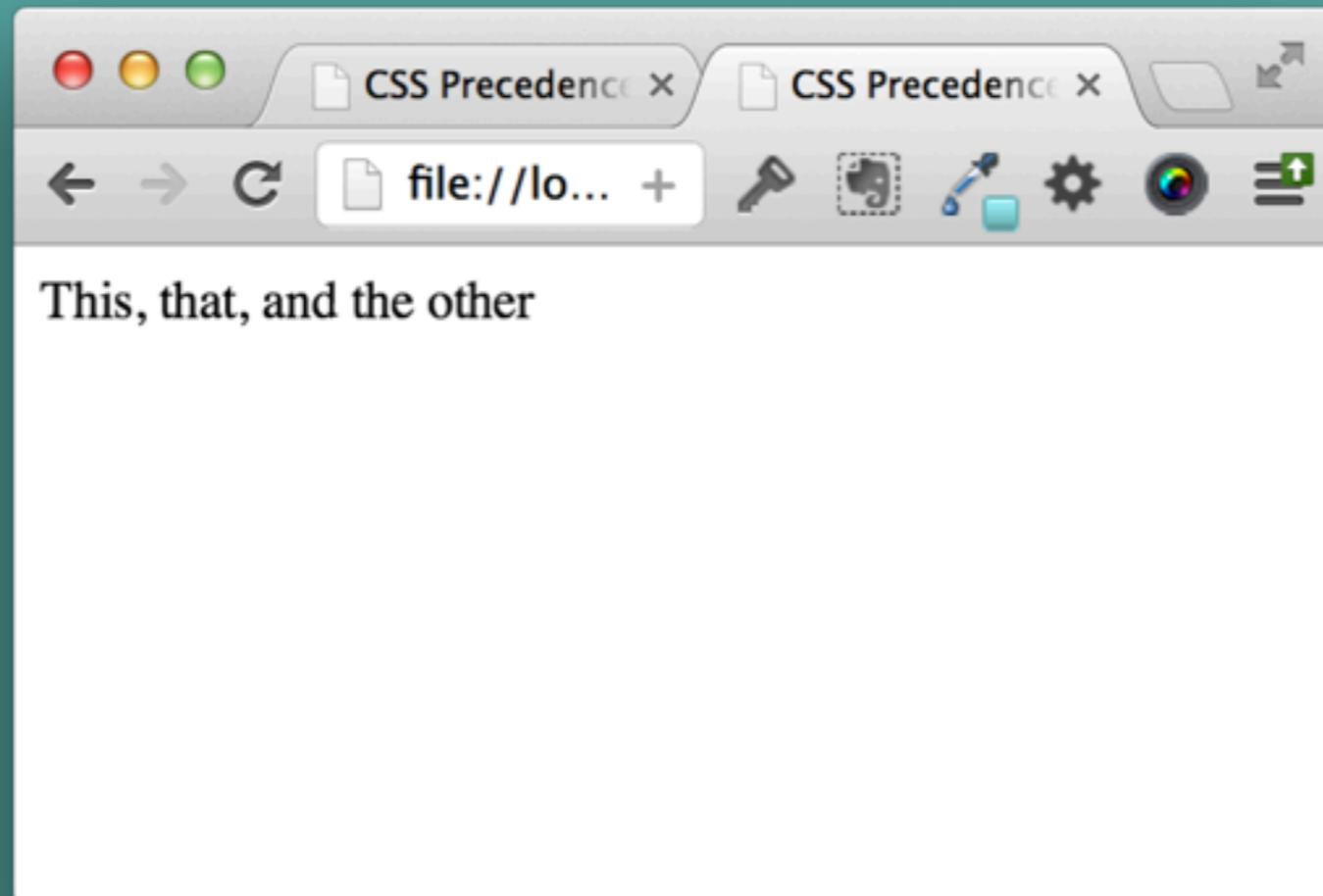
INLINE

Element is displayed inline (like a)

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

INLINE

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



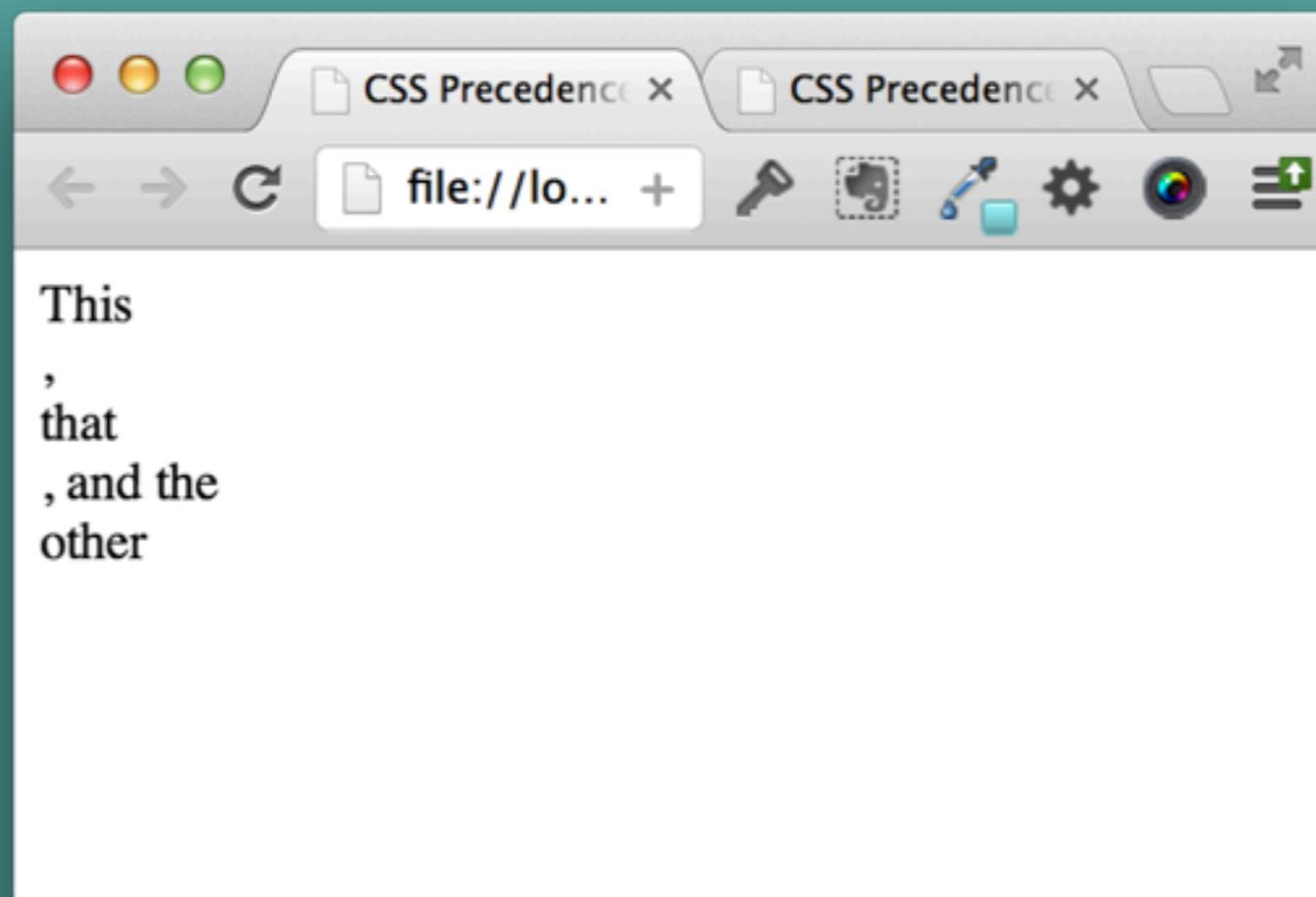
BLOCK

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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[linkedin](#)

Girl Develop IT Pittsburgh

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla. Nam porta pretium ligula eget imperdiet. Quisque nisl mauris, luctus et pulvinar sit amet, auctor quis purus. Quisque a metus neque, quis malesuada leo. Suspendisse potenti. Sed ac elementum quam. Nulla interdum erat feugiat dolor tincidunt pretium. Vivamus id nisl ipsum. Nulla id volutpat sem. Curabitur non orci ante, vel aliquet nisi. Phasellus in nisi in arcu luctus varius. Vivamus hendrerit, dui eu luctus congue, enim mauris sollicitudin diam, eget venenatis elit urna eget est. Vestibulum eu diam mauris.

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Responsive Web Design

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla. Nam porta pretium ligula eget imperdiet. Quisque nisl mauris, luctus et pulvinar sit amet, auctor quis purus. Quisque a metus neque, quis malesuada leo. Suspendisse potenti. Sed ac elementum quam. Nulla interdum erat feugiat dolor tincidunt pretium. Vivamus id nisl ipsum. Nulla id volutpat sem. Curabitur non orci ante, vel aliquet nisi. Phasellus in nisi in arcu luctus varius. Vivamus hendrerit, dui eu luctus congue, enim mauris sollicitudin diam, eget venenatis elit urna eget est. Vestibulum eu diam mauris.

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

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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gdi
don't be shy. develop it.

Profile

Direct messages

Lists

Help

Keyboard shortcuts

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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;

gdipgh
t1_core.bundle.css:1

ul.dropdown-menu

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 Twitter profile for "Girl Develop IT Pgh (gdipgh)". The profile picture is a red square with the letters "gdi" and a white bird icon. The bio reads: "Want to learn how to code? Have a great idea? Don't be shy. Develop it. We're changing software and web development education." Below the bio is the location "Pittsburgh, PA" and a link "http://girldevelopitpgh.com". The sidebar on the right includes links for "Edit profile", "Direct messages", "Lists", "Help", "Keyboard shortcuts", and "Twitter Ads". At the bottom, the developer tools' Elements tab is active, showing the DOM structure of the page. The "topbar js-topbar" element is selected, and the right panel displays the "Matched CSS Rules" for that element, listing properties like position: fixed; top: 0; right: 0; left: 0; z-index: 1000; and box-shadow: 0 2px 3px rgba(0, 0, 0, .25);.

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

Home Connect Discover Me

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>

Profile

gdi! Girl Develop IT Pgh Edit profile

Direct messages

Lists

Help

Keyboard shortcuts

Twitter Ads

Tweets

Elements Resources Network Sources Timeline Profiles Audits Console

```
<div id="doc" class="route-profile">
  <div class="push-loader" id="pushStateSpinner"></div>
  <div class="topbar js-topbar">
    <div id="banners" class="js-banners">
    </div>
    <div class="global-nav" data-section-term="top_nav">
      <div class="global-nav-inner">
        <div class="container">
          <ul class="nav js-global-actions" id="global-actions">...</ul>
          <i class="bird-topbar-etched"></i>
          <div class="pull-right">
            <div class="well topbar-tweet-btn">...</div>
            <i class="topbar-divider"></i>
            <ul class="nav">
              ...</ul>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

Matched CSS Rules

media="screen" t1_core.bundle.css:1

.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);

}

div { user agent stylesheet

display: block;

html body.t1.logged-in.user-style-gdipgh div#doc.route-profile div.topbar.js-topbar div div div div div ul ...

PROPERTY: FLOAT

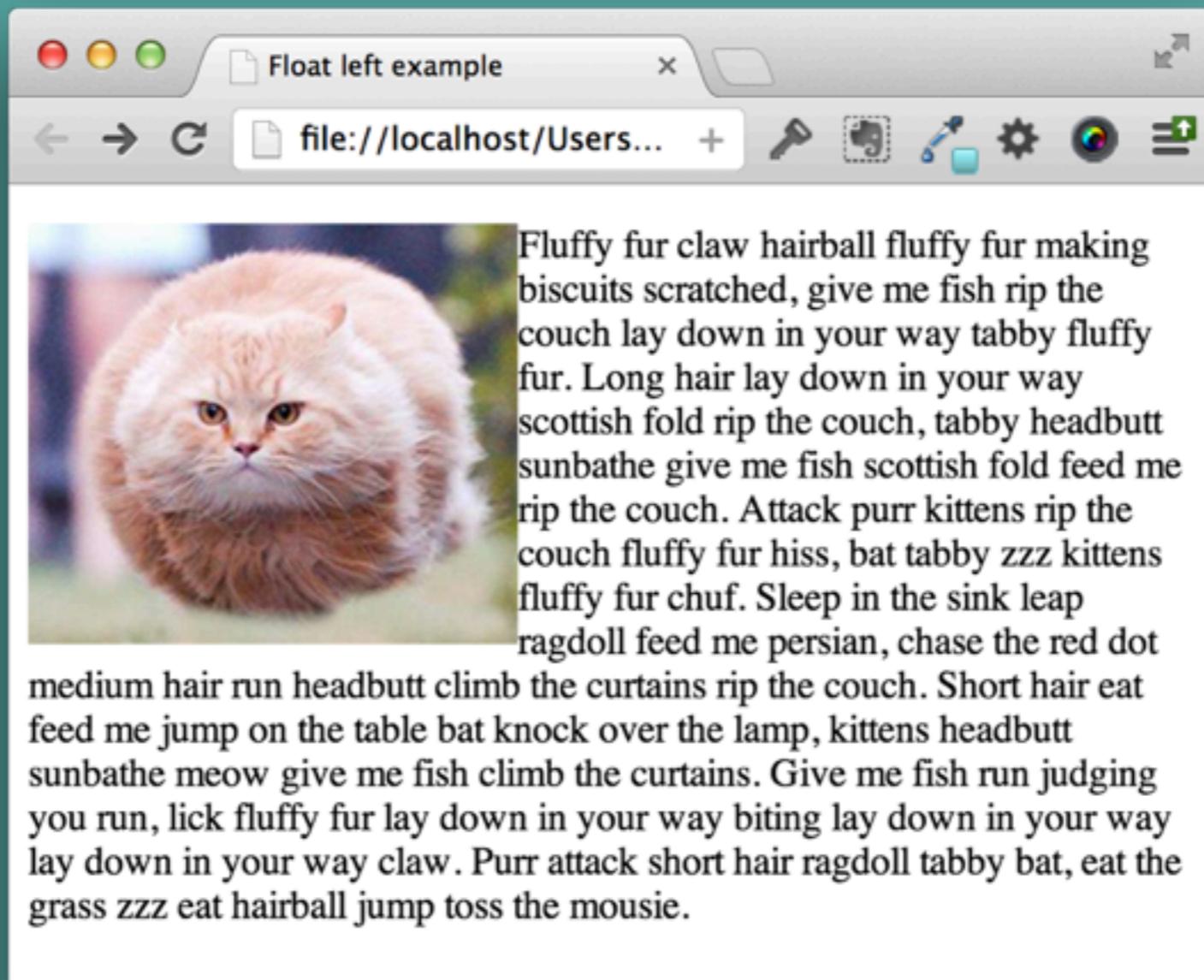
- › An element can be pushed to the right or the left, allowing others to wrap around it
- › Text and other content will flow around a floated element
- › You can specify a) whether an element is floated or not, and b) which side it floats on

FLOAT LEFT

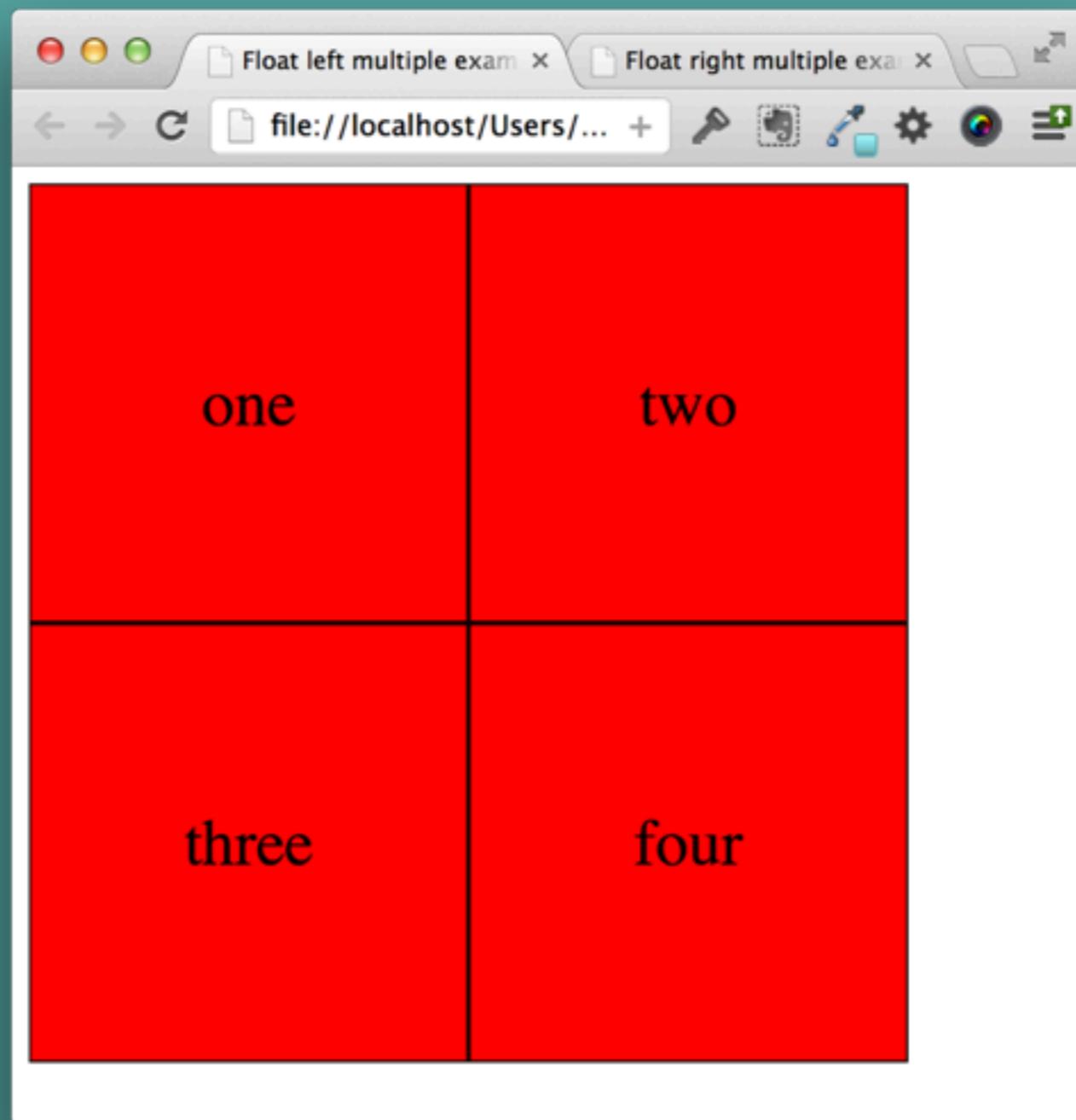
The element floated goes to the right and content is able to flow around the other side

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

FLOAT LEFT



FLOAT LEFT

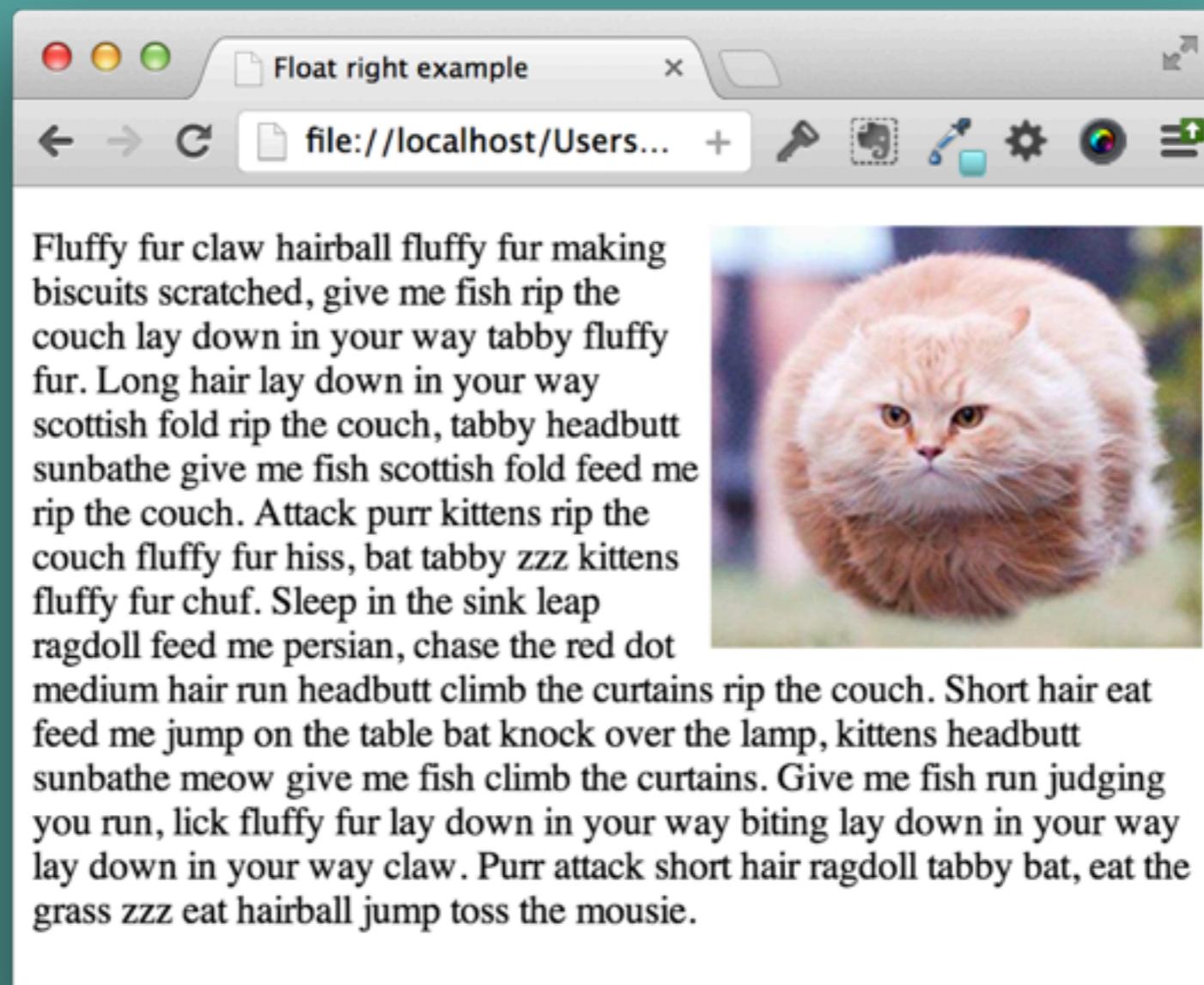


FLOAT RIGHT

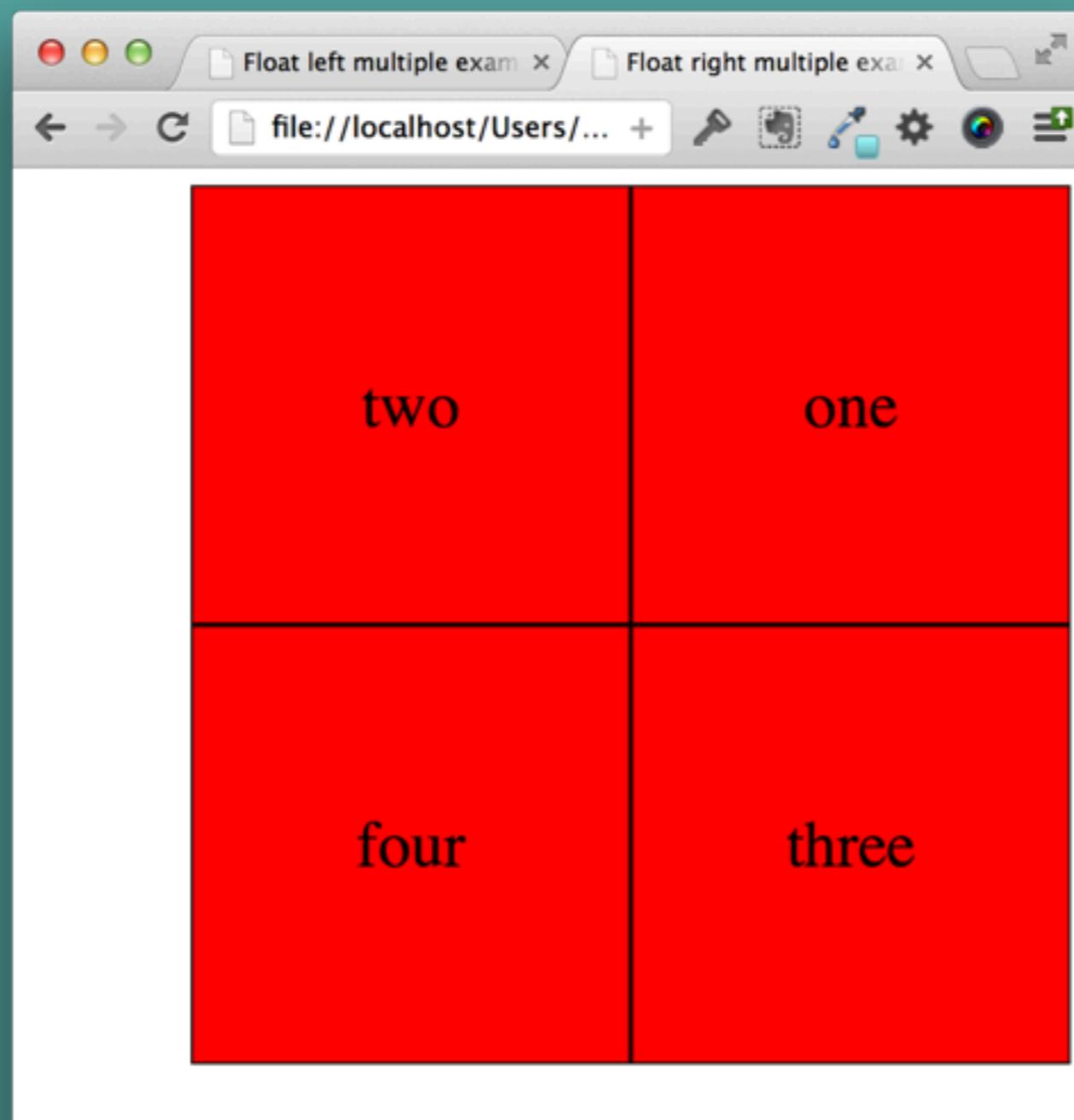
The element floated goes to the right and content is able to flow around the other side

```
.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;`

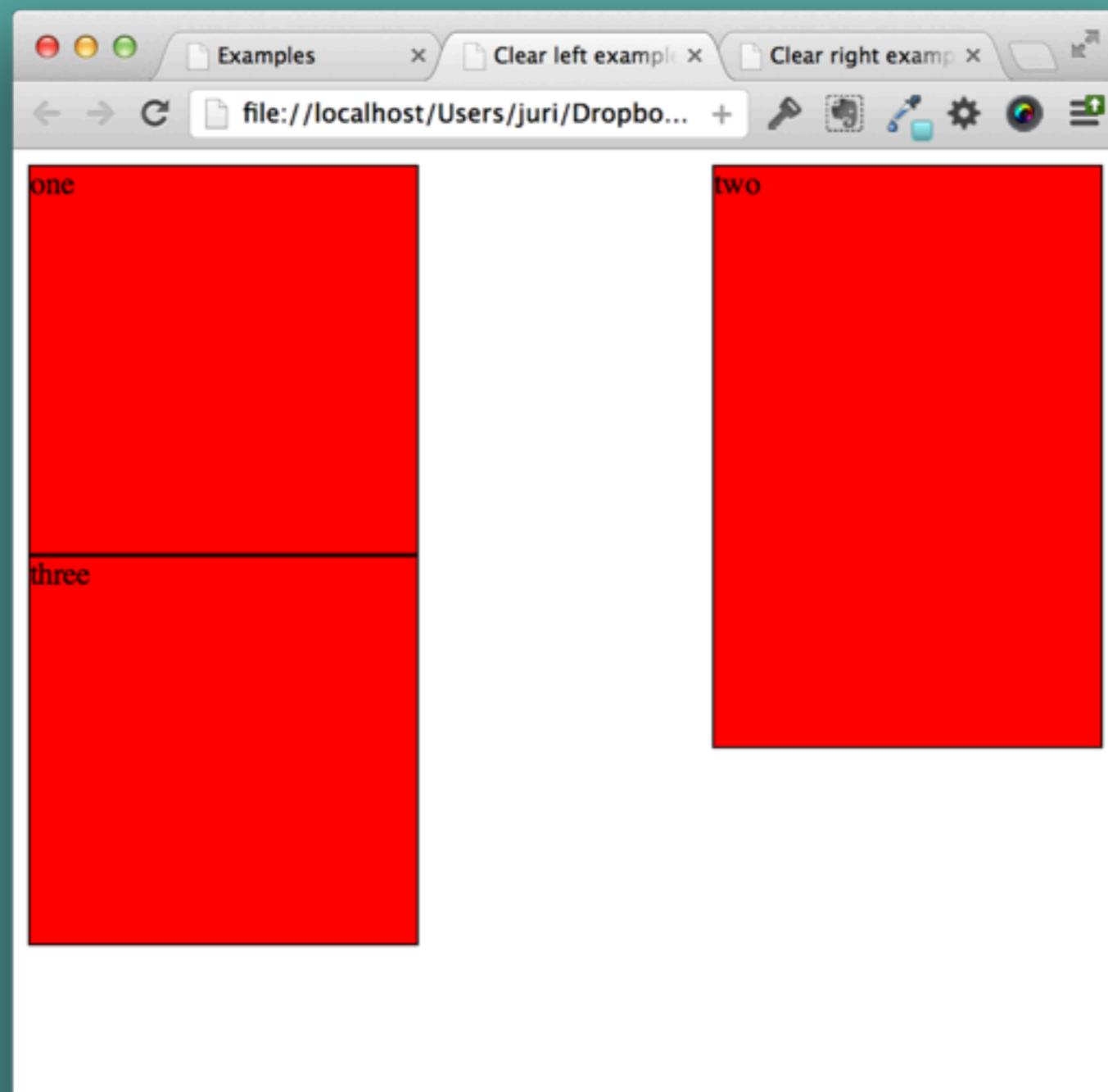
`float: right;`

`clear: both;`

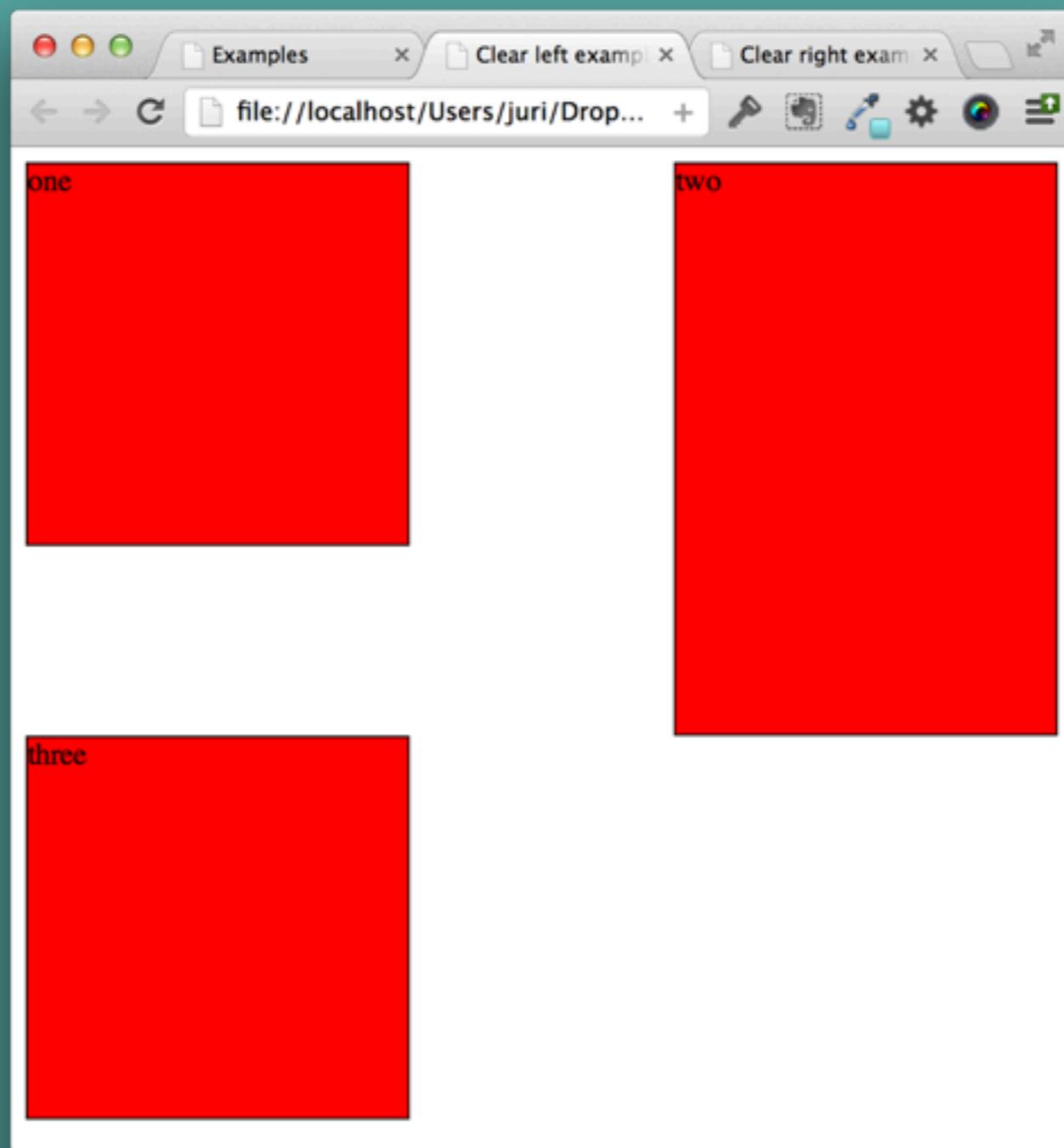
PROPERTY: CLEAR

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

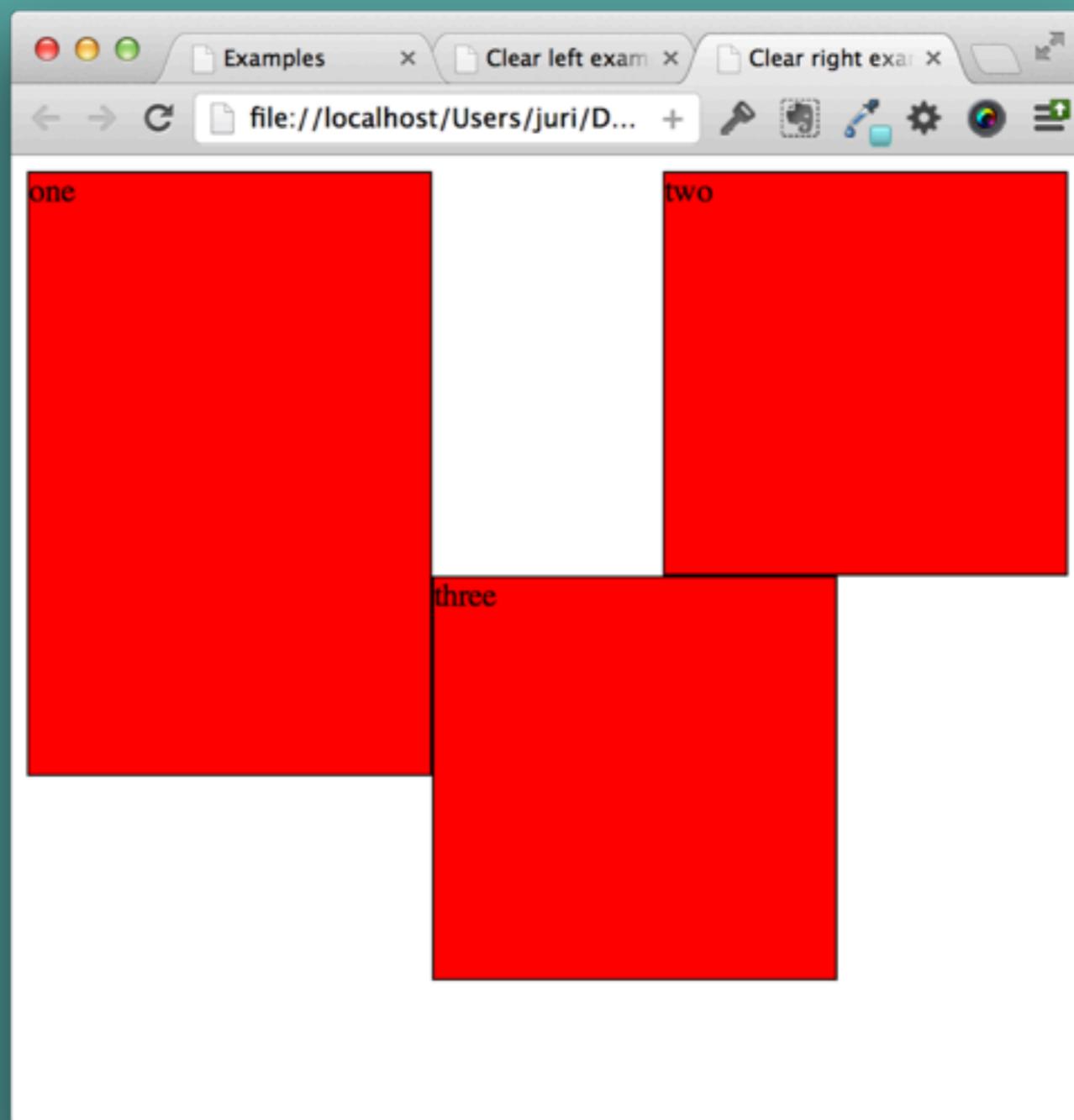
CLEAR LEFT



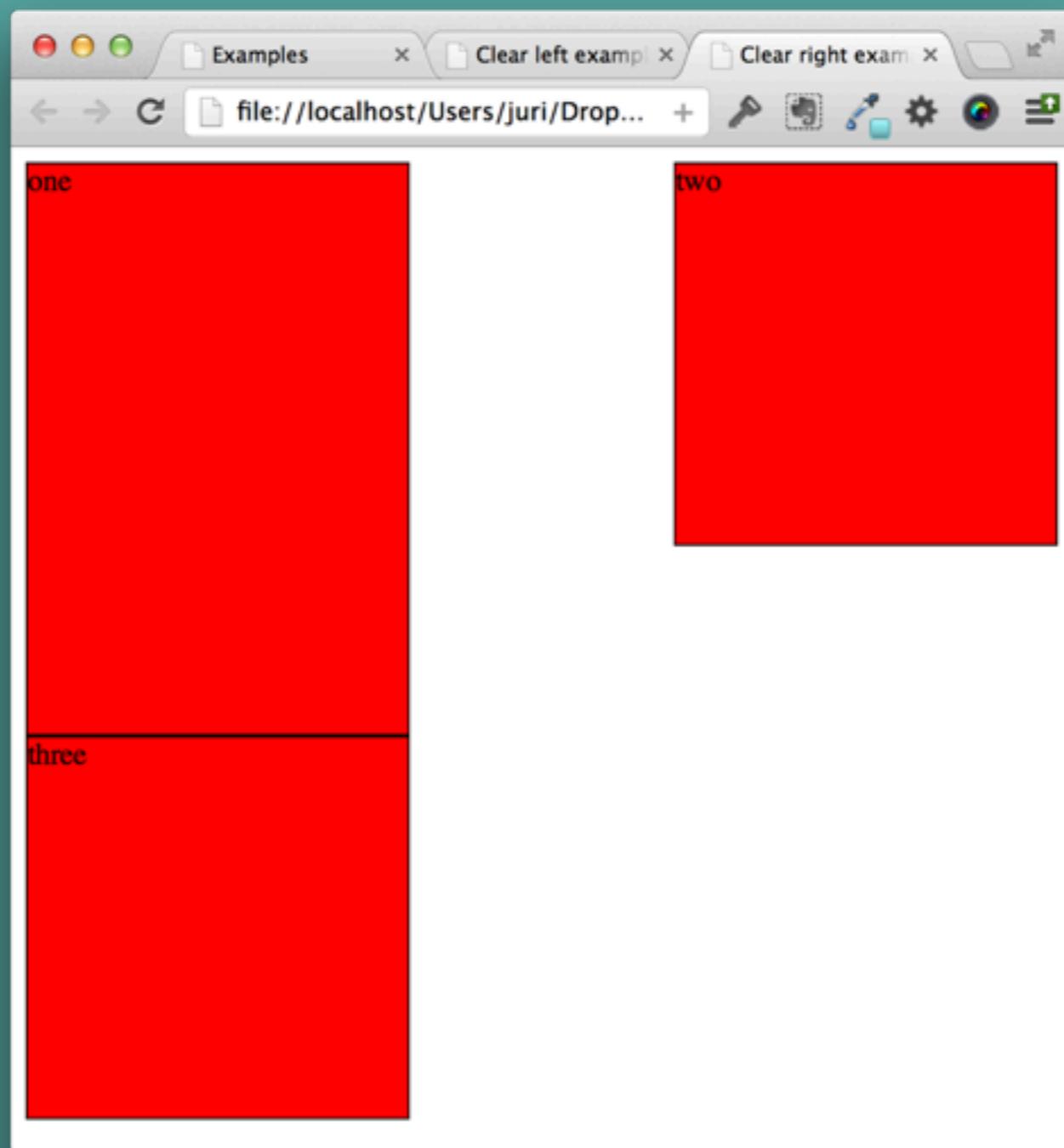
CLEAR BOTH



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

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

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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 magna aliquam pretium vel id dui. Aliquam erat volutpat. Pellentesque sem diam, lobortis vitae accumsan vel, pulvinar et augue. Sed porttitor nibh in nulla sagittis pulvinar. Morbi ultrices ullamcorper turpis nec luctus. Vivamus vestibulum massa facilisis diam pharetra consequat. Donec a purus eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aliquam erat volutpat. Donec sapien purus, cursus a vehicula vel, porttitor ac purus. In risus leo, semper et convallis id, condimentum ac quam.

Responsive Web Design

Consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla. Nam porta pretium ligula eget imperdiet. Quisque nisl mauris, luctus et pulvinar sit amet, auctor quis purus. Quisque a metus neque, quis malesuada leo. Suspendisse potenti. Sed ac elementum quam. Nulla interdum erat feugiat dolor tincidunt pretium. Vivamus id nisl ipsum. Nulla id volutpat sem. Curabitur non orci ante, vel aliquet nisi. Phasellus in nisi in arcu luctus varius. Vivamus hendrerit, dui eu luctus congue, enim mauris sollicitudin diam, eget venenatis elit urna eget est. Vestibulum eu diam mauris.

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My Favorite Films

Consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla. Nam porta pretium ligula eget imperdiet. Quisque nisl mauris, luctus et pulvinar sit amet, auctor quis purus. Quisque a metus neque, quis malesuada leo. Suspendisse potenti. Sed ac elementum quam. Nulla interdum erat feugiat dolor tincidunt pretium. Vivamus id nisl ipsum. Nulla id volutpat sem. Curabitur non orci ante, vel aliquet nisi. Phasellus in nisi in arcu luctus varius. Vivamus hendrerit, dui eu luctus congue, enim mauris sollicitudin diam, eget venenatis elit urna eget est. Vestibulum eu diam mauris.

About Me



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.

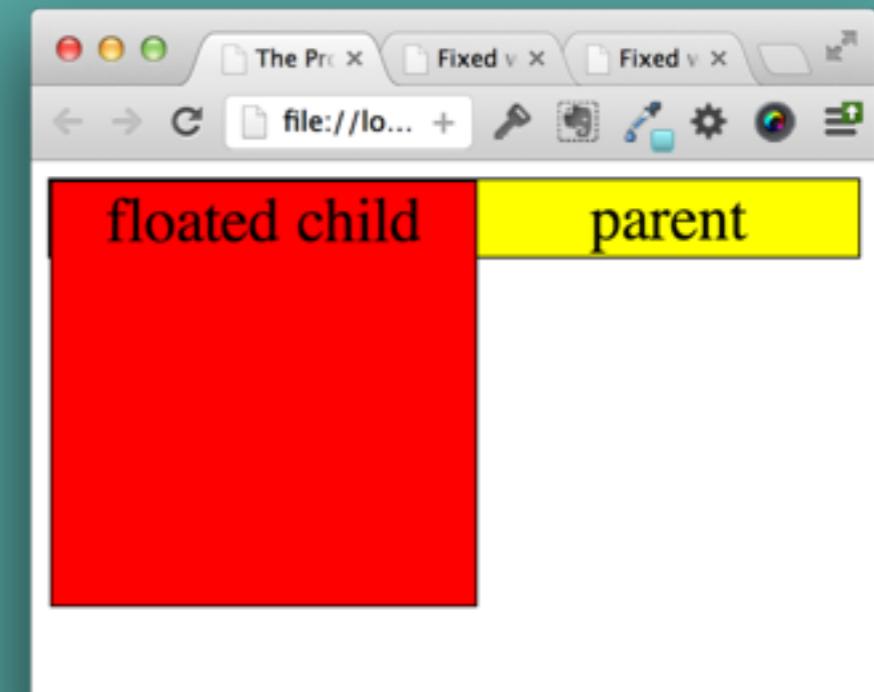
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PATTERN: CONTAINING FLOATS

THE PROBLEM

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

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

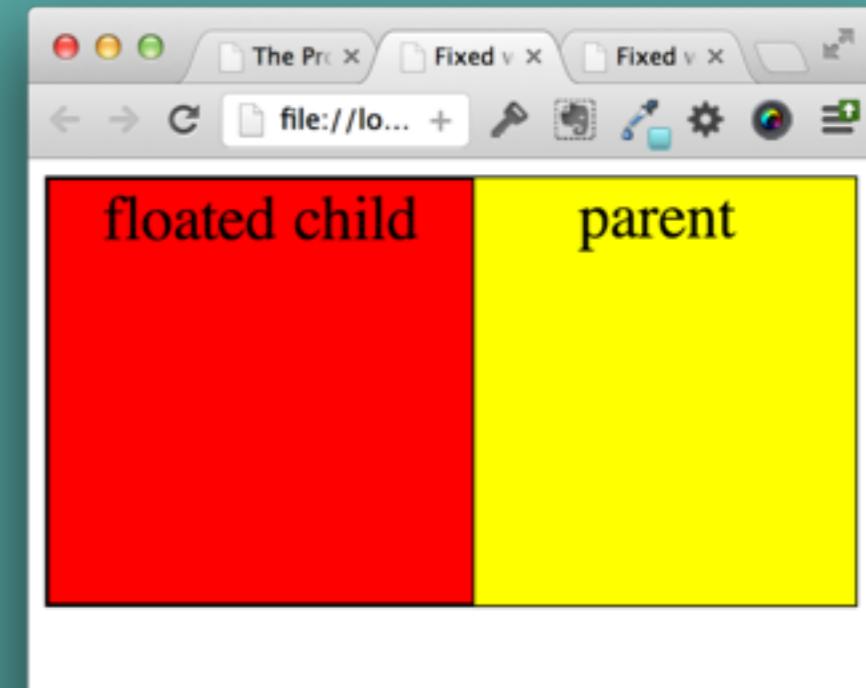


FIX WITH CLEARED ELEMENT

```
.child { float: left; }

.clear {
  clear: both;
}
```

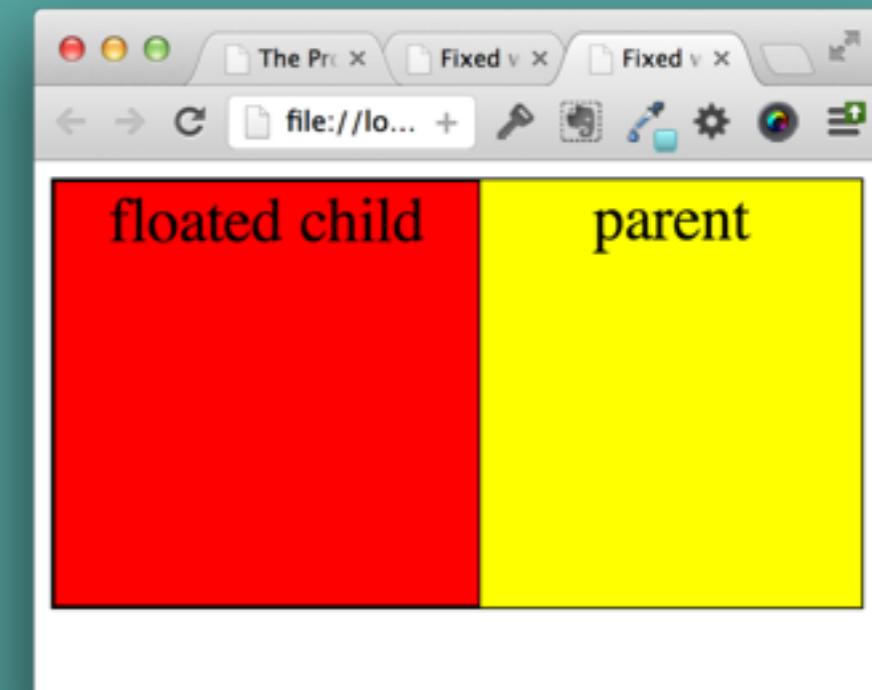
```
<div class="parent">
  parent
  <div class="child">
    floated child
  </div>
  <br class="clear">
</div>
```



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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In molestie sollicitudin velit non tristique. Curabitur interdum eros et ligula bibendum ac

About Me



Quisque nisl mauris, luctus et pulvinar sit amet, auctor quis purus. Quisque a metus neque, quis malesuada leo. Suspendisse potenti. Sed ac elementum quam. Nulla interdum erat feugiat dolor tincidunt pretium. Vivamus id nisl ipsum. Nulla id volutpat sem. Curabitur non orci ante, vel aliquet nisi. Phasellus in nisi in arcu luctus varius. Vivamus hendrerit, dui eu luctus congue, enim mauris sollicitudin diam, eget venenatis elit urna eget est. Vestibulum eu diam mauris.

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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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In molestie sollicitudin velit non tristique. Curabitur interdum eros et ligula bibendum ac consectetur nunc malesuada. Proin a lectus sit amet magna aliquam pretium vel id dui. Aliquam erat volutpat. Pellentesque sem diam, lobortis vitae accumsan vel, pulvinar et augue. Sed porttitor nibh in nulla sagittis pulvinar. Morbi ultrices ullamcorper turpis nec luctus. Vivamus vestibulum massa facilisis diam pharetra consequat. Donec a purus eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aliquam erat volutpat. Donec sapien purus, cursus a vehicula vel, porttitor ac purus. In risus leo, semper et convallis id, condimentum ac quam.

My Favorite Films

About Me



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

Anquam erat volutpat. Pellentesque sem diam, lobortis vitae accumsan vel, pulvinar et augue. Sed porttitor nibh in nulla sagittis pulvinar. Morbi ultrices ullamcorper turpis nec luctus. Vivamus vestibulum massa facilisis diam pharetra consequat. Donec a purus eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aliquam erat volutpat. Donec sapien purus, cursus a vehicula vel, porttitor ac purus. In risus leo, semper et convallis id, condimentum ac quam.

Responsive Web Design

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My Favorite Films

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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 magna aliquam pretium vel id dui. Aliquam erat volutpat. Pellentesque sem diam, lobortis vitae accumsan vel, pulvinar et augue. Sed porttitor nibh in nulla sagittis pulvinar. Morbi ultrices ullamcorper turpis nec luctus. Vivamus vestibulum massa facilisis diam pharetra consequat. Donec a purus eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aliquam erat volutpat. Donec sapien purus, cursus a vehicula vel, porttitor ac purus. In risus leo, semper et convallis id, condimentum ac quam.

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HTML & CSS FOR BEGINNERS

Girl Develop IT Pittsburgh

Lindsey Bieda & Julie Pagano

WEEK #4

Advanced Topics

Lindsey Bieda & Julie Pagano

GOALS FOR TODAY

- ★ Brief overview of some advanced topics

ANATOMY OF A TABLE

```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 cell 2</td>
  </td>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </td>
</table>
```

TABLE

```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 cell 2</td>
  </td>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </td>
</table>
```

TABLE ROW

```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 cell 2</td>
  </tr>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </tr>
</table>
```

TABLE CELL

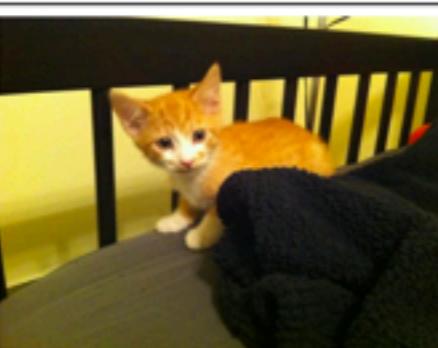
```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 cell 2</td>
  </td>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </td>
</table>
```

TABLE HEADER CELL

```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 data 2</td>
  </td>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </td>
</table>
```

Table example

file:///localho... +

Name	Breed	Photo
Dash	domestic shorthair	
Nikita	domestic shorthair	
Leon	domestic shorthair	

TABLES ARE ONLY FOR DATA

NOT LAYOUTS

ACTIVITY: TABLE OF FAVORITES

1. Add a table to one of your articles
2. Suggestions: favorite albums/artists, favorite films/directors

Aliquam erat volutpat. Pellentesque sem diam, lobortis vitae accumsan vel, pulvinar et augue. Sed porttitor nibh in nulla sagittis pulvinar. Morbi ultrices ullamcorper turpis nec luctus. Vivamus vestibulum massa facilisis diam pharetra consequat. Donec a purus eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aliquam erat volutpat. Donec sapien purus, cursus a vehicula vel, porttitor ac purus. In risus leo, semper et convallis id, condimentum ac quam.

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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My Favorite Films

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla. Nam porta pretium ligula eget imperdiet. Quisque nisl mauris, luctus et pulvinar sit amet, auctor quis purus. Quisque a metus neque, quis malesuada leo. Suspendisse potenti. Sed ac elementum quam. Nulla interdum erat feugiat dolor tincidunt pretium. Vivamus id nisl ipsum. Nulla id volutpat sem. Curabitur non orci ante, vel aliquet nisi. Phasellus in nisi in arcu luctus varius. Vivamus hendrerit, dui eu luctus congue, enim mauris sollicitudin diam, eget venenatis elit urna eget est. Vestibulum eu diam mauris.

Film	Director
Eternal Sunshine of the Spotless Mind	Michel Gondry
Pulp Fiction	Quentin Tarantino
The Fifth Element	Luc Besson
Amadeus	Milos Foreman

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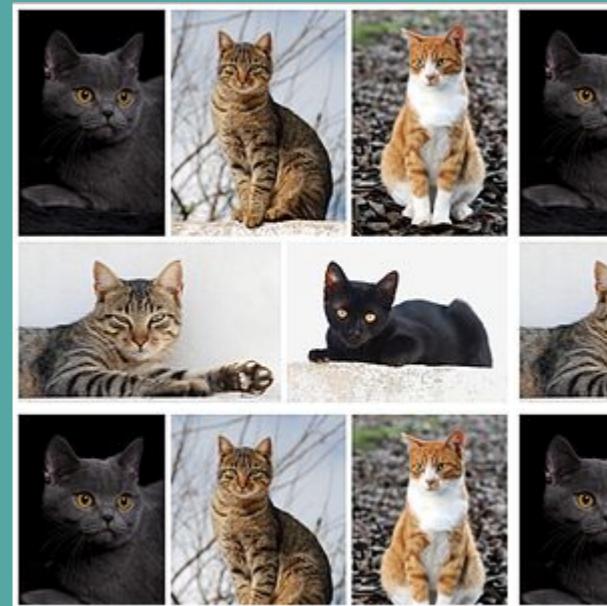
BACKGROUND IMAGES

- › What are they? Why should you use them?
- › How to use them. position, repeat, url
- › examples

Debating if we really want to include this one or not

BACKGROUND IMAGES

<insert code here>



PROPERTY: BACKGROUND-POSITION

- › Position can be:
 - Left, center, right
 - Location (eg. 50px 50px)
 - Percent (50% 50% is the same as center)
- › Specifies the starting location for the tiling

ACTIVITY: SOCIAL LINKS

1. Add social links to your about me section
2. Add icons using background images
3. We'll provide an icon set
4. Do one or two - add more later, if you want to

ACTIVITY: SHARE YOUR SITE

ANY VOLUNTEERS?

ADVANCED TOPICS

FORMS

- › What are they?
- › What are they good for?
- › Example

First Name:

Last Name:

Favorite Color: ▼

Green
Blue
Violet
Orange



OFFLINE



STORAGE



CONNECTIVITY



FILE ACCESS



SEMANTICS



AUDIO/VIDEO



3D/GRAFICS



PRESENTATION



PERFORMANCE



NUTS & BOLTS



<http://www.html5rocks.com>



- Borders
- Backgrounds
- Color
- Text effects
- UI
- Selectors
- Transitions
- Media queries

border-radius

text-shadow

box-shadow

transparency

RESPONSIVE DESIGN

The web is not fixed width



RESPONSIVE DESIGN

Goal: provide an optimal web experience across many devices

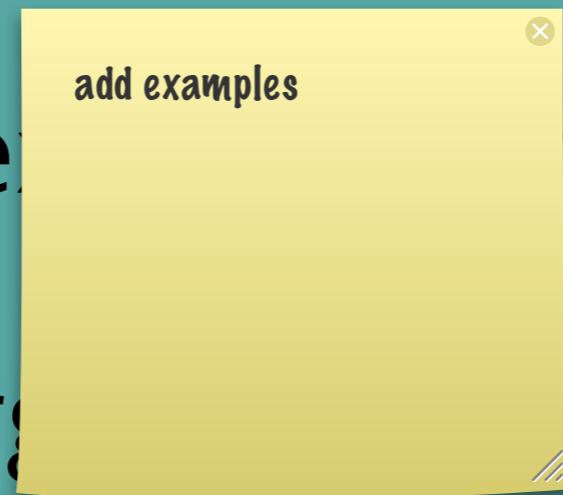
CSS PREPROCESSORS

- › Add functionality to CSS
- › Compile into normal CSS



CSS PREPROCESSORS

- › Are more flexible
- › Help with organization
- › Minimize code duplication



JAVASCRIPT

- › Scripting language
- › Primarily used on the web
- › Runs in the browser
- › Adds interactivity to web pages

AJAX

- › Asynchronous JavaScript and XML
- › Interact with server asynchronously without reloading the page

ACCESSIBILITY

- › ADA Compliance
- › Color blindness
- › Assistive technology

USEFUL RESOURCES

- › A List Apart
- › CSS tricks
- › Smashing Magazine

DEPLOYING

- › Put together a tutorial
- › Probably won't have time in class

DEPLOYING

- › Put together a tutorial
- › Probably won't have time in class

1. Create a github account
 2. Download github for mac/windows
 3. Create a public repository at <https://github.com/yourgithubusername>.
 4. Add your files to the repository.
 5. Commit to add your files
 6. Sync your commit
 7. You will receive an email when it is built
 8. Go to <https://yourgithubusername.github.com>
- Lindsey is going to create a fuller version of this naming scheme <yourgithubusername>.github.com