

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

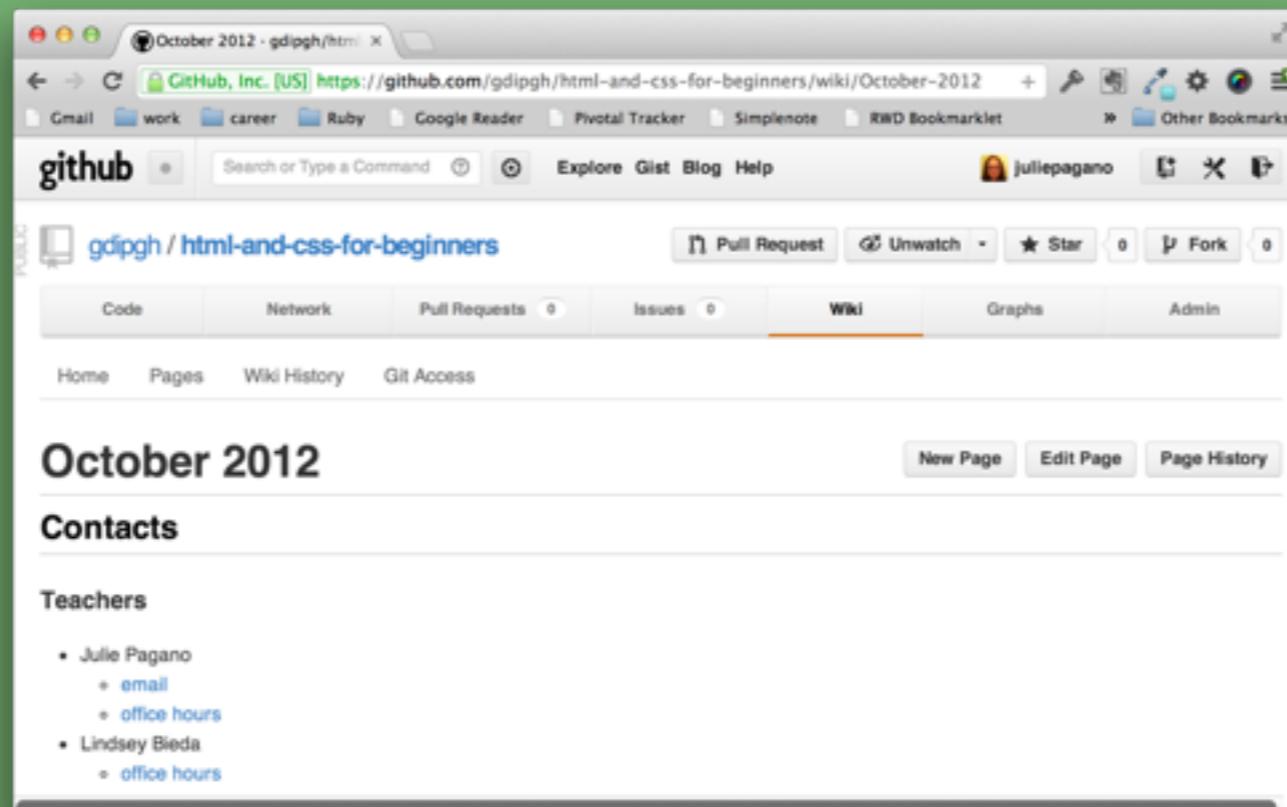


PLEASE ASK QUESTIONS!



NEED HELP?

Check out our github wiki for contact information and office hours



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.

WORLD WIDE WEB CONSORTIOM



- › Main international standards organization for the web
- › Founded by Tim Berners-Lee at MIT

HTML

HyperText Markup Language

MARKUP LANGUAGE

Describes how to structure and display
the content of a document

CSS

Cascading Style Sheets

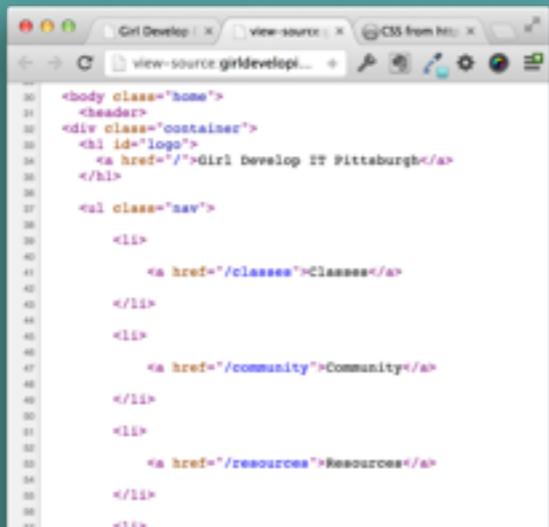
CSS

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:
  <link href="/stylesheet/screen.css" media="screen, projection" type="text/css" rel="stylesheet" />
  Or Line 17, <link href="screen.css" media="screen, projection" type="text/css" rel="stylesheet" />
  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, <link href="screen.css" media="screen, projection" type="text/css" rel="stylesheet" />
  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 text editor window titled "untitled — girldevelopitpgh-html-css". The window has a dark theme with a light sidebar on the left. The sidebar is titled "FOLDERS" and contains a single item: "girldevelopitpgh-html-css" with a downward arrow indicating it's expandable. The main area of the editor is black and shows the number "1" in the top-left corner, followed by a vertical cursor bar. At the bottom of the editor window, there is a status bar with the text "Line 1, Column 1" on the left, "Spaces: 2" in the center, and "Plain Text" on the right.

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

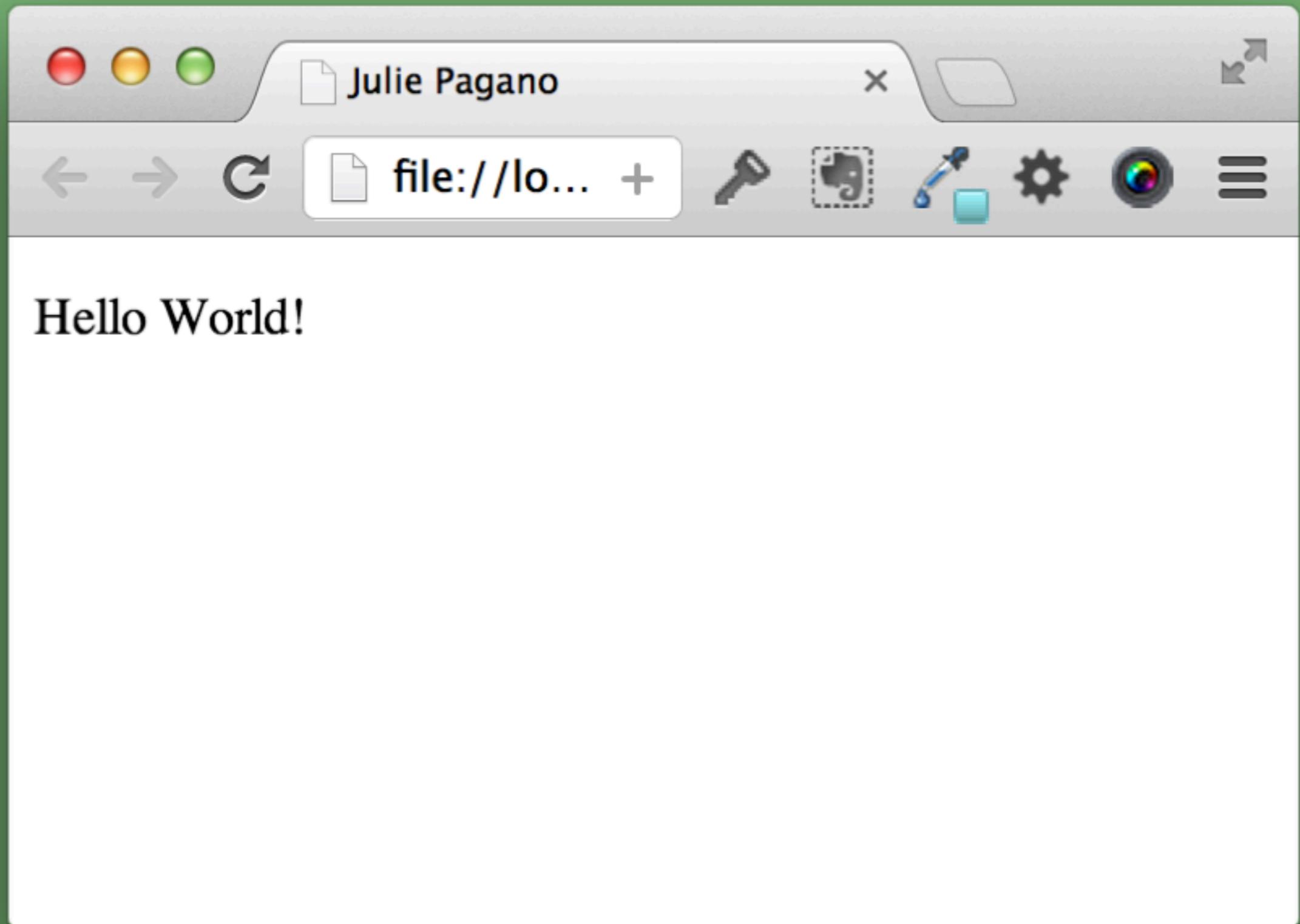
BASIC HTML PAGE

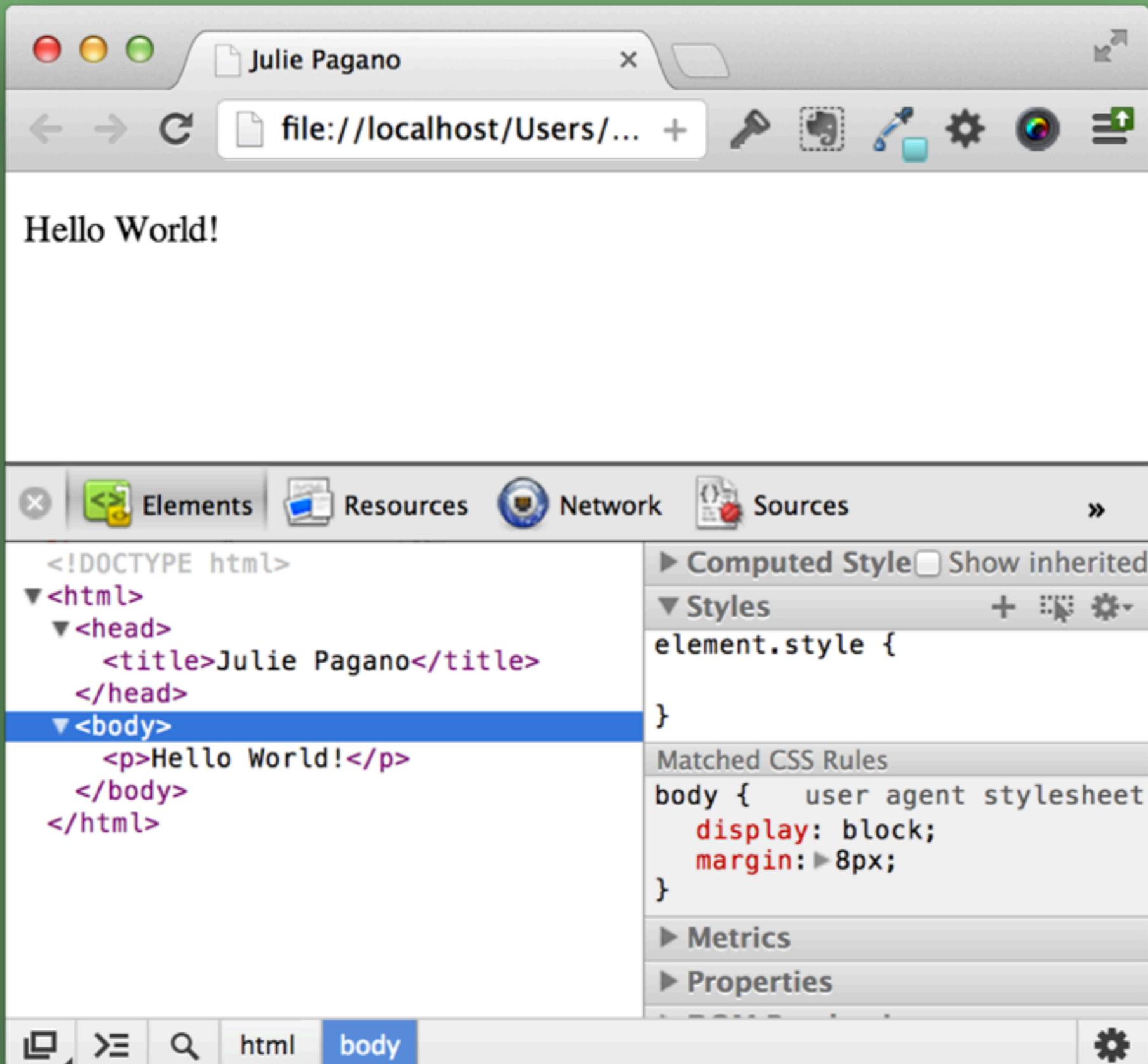
```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello World</title>
  </head>
  <body>
    <p>Hello World!</p>
  </body>
</html>
```

A screenshot of a Mac OS X desktop environment. On the left, there is a 'FOLDERS' sidebar with a single item: 'girldevelopitpgh-html-css' containing 'index.html'. The main window title is 'index.html — girldevelopitpgh-html-css'. The code editor shows the following HTML document:

```
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 indicates 'Line 9, Column 8', 'Spaces: 2', and 'HTML'.





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

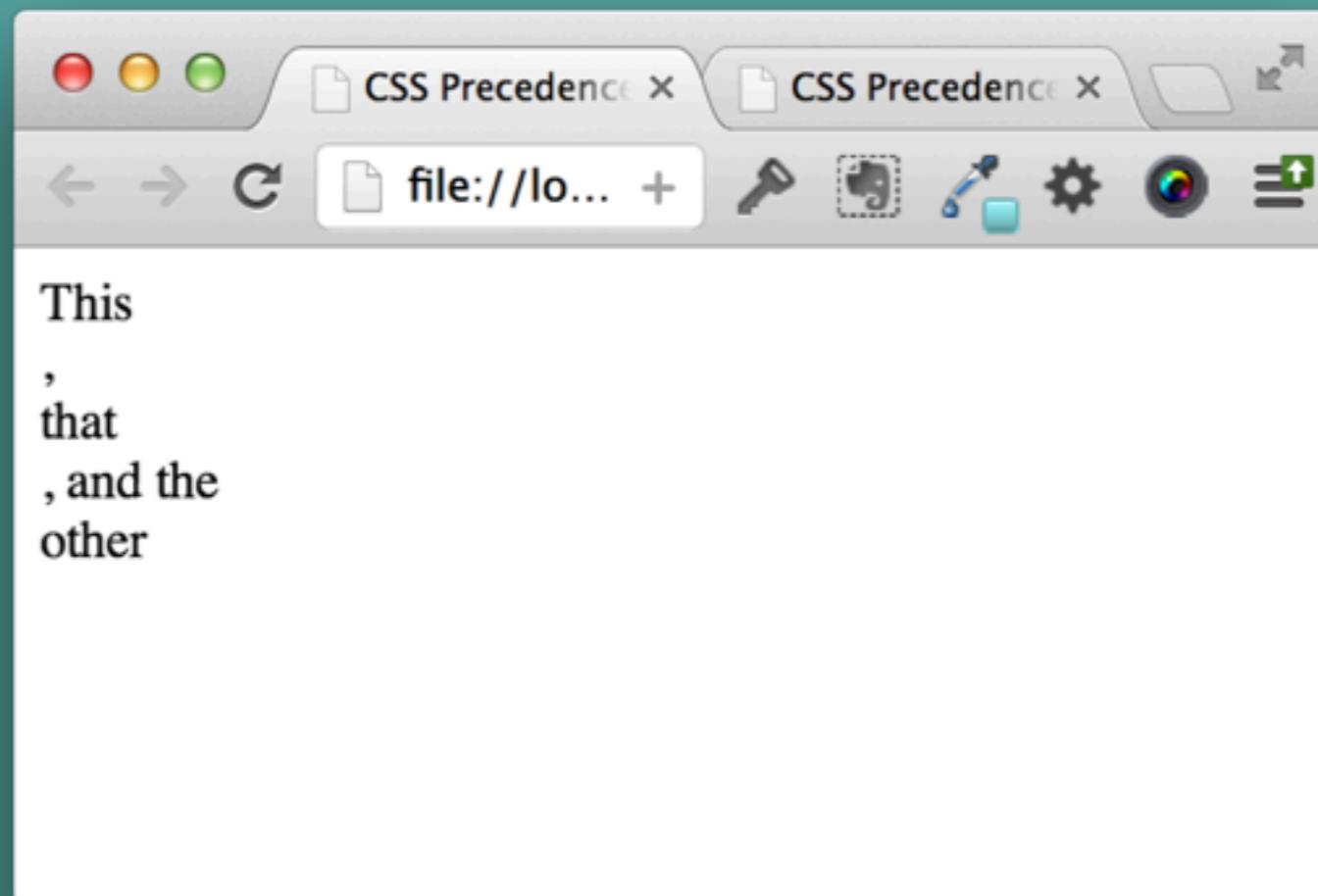
Generic container for content

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

- › Inline element
- › Usually good for styling text

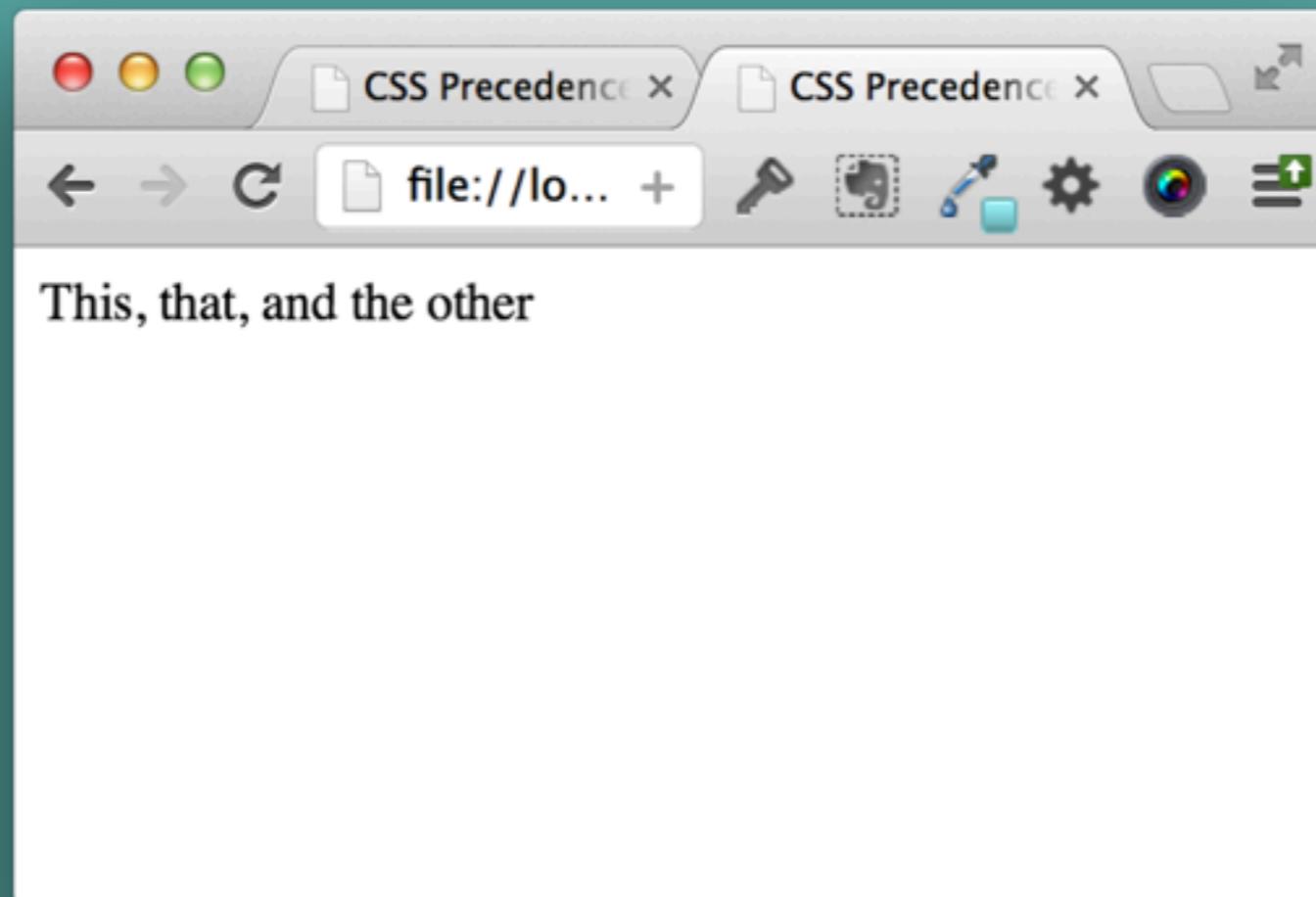
BLOCK

```
<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

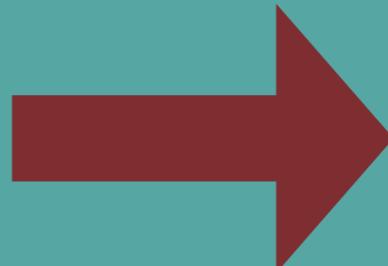
```
<h1>one</h1>  
<h2>two</h2>  
<h3>three</h3>  
<h4>four</h4>  
<h5>five</h5>  
<h6>six</h6>
```

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

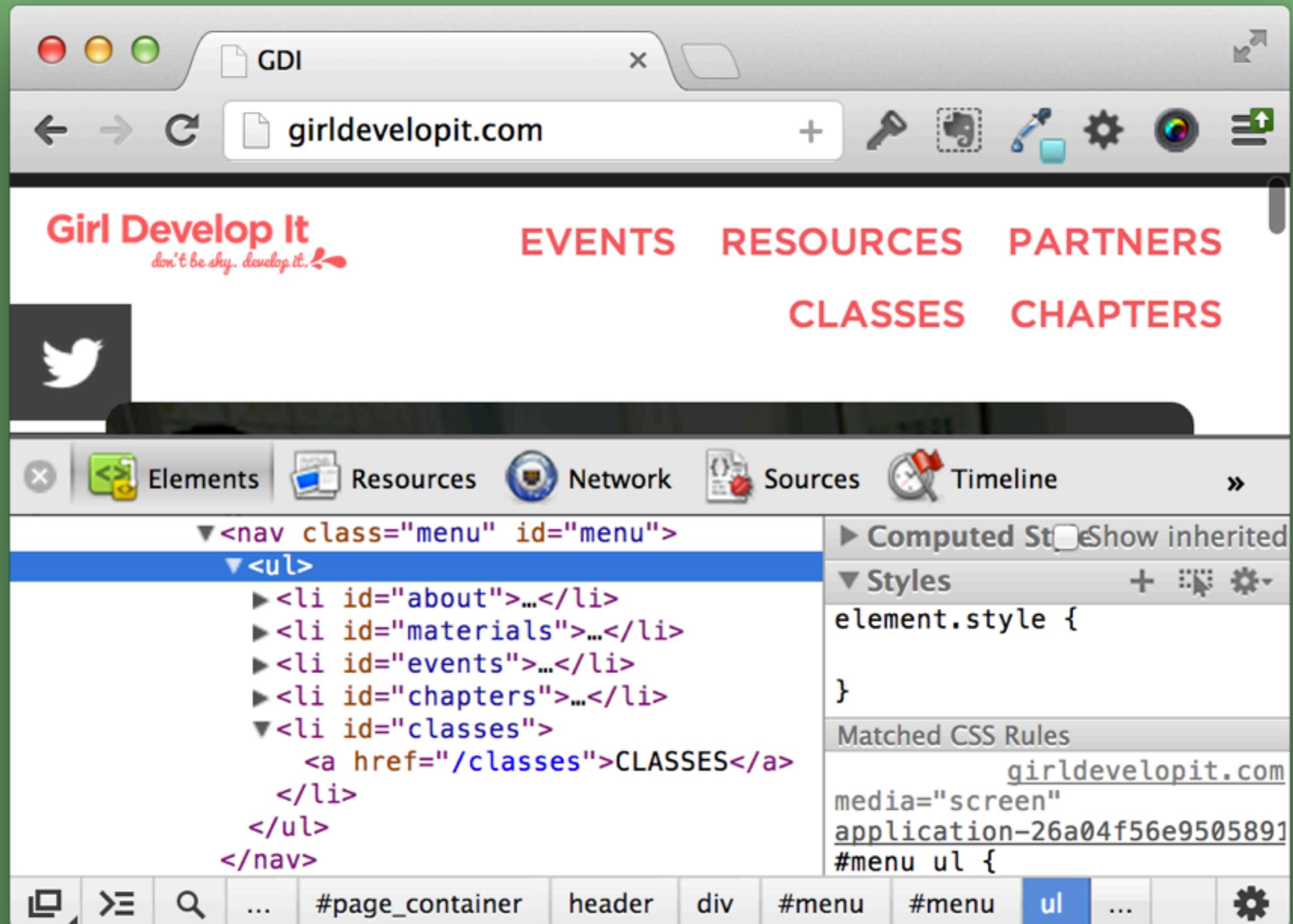
- Item 1
- Item 2

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 COMMENTS

Comments are added inside <!-- -->

```
<div>
  <!-- TODO: write copy for this section -->
</div>
```

- › Used to leave notes or explain behavior
- › Should be used sparingly

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. The layout is contained within a window frame with scroll bars. At the top, there is a header bar with the title "Julie Pagan" and navigation links: "home", "github", "resume", and "gdipgh". Below the header, there are three main content sections: "Girl Develop IT Pittsburgh", "Responsive Web Design", and "My favorite films", each with decorative wavy lines underneath. To the right of these sections is a sidebar titled "ABOUT ME" containing a placeholder image and social media links for Twitter, Facebook, Tumblr, and LinkedIn. The footer at the bottom contains the same set of navigation links: "home", "github", "resume", and "gdipgh".

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

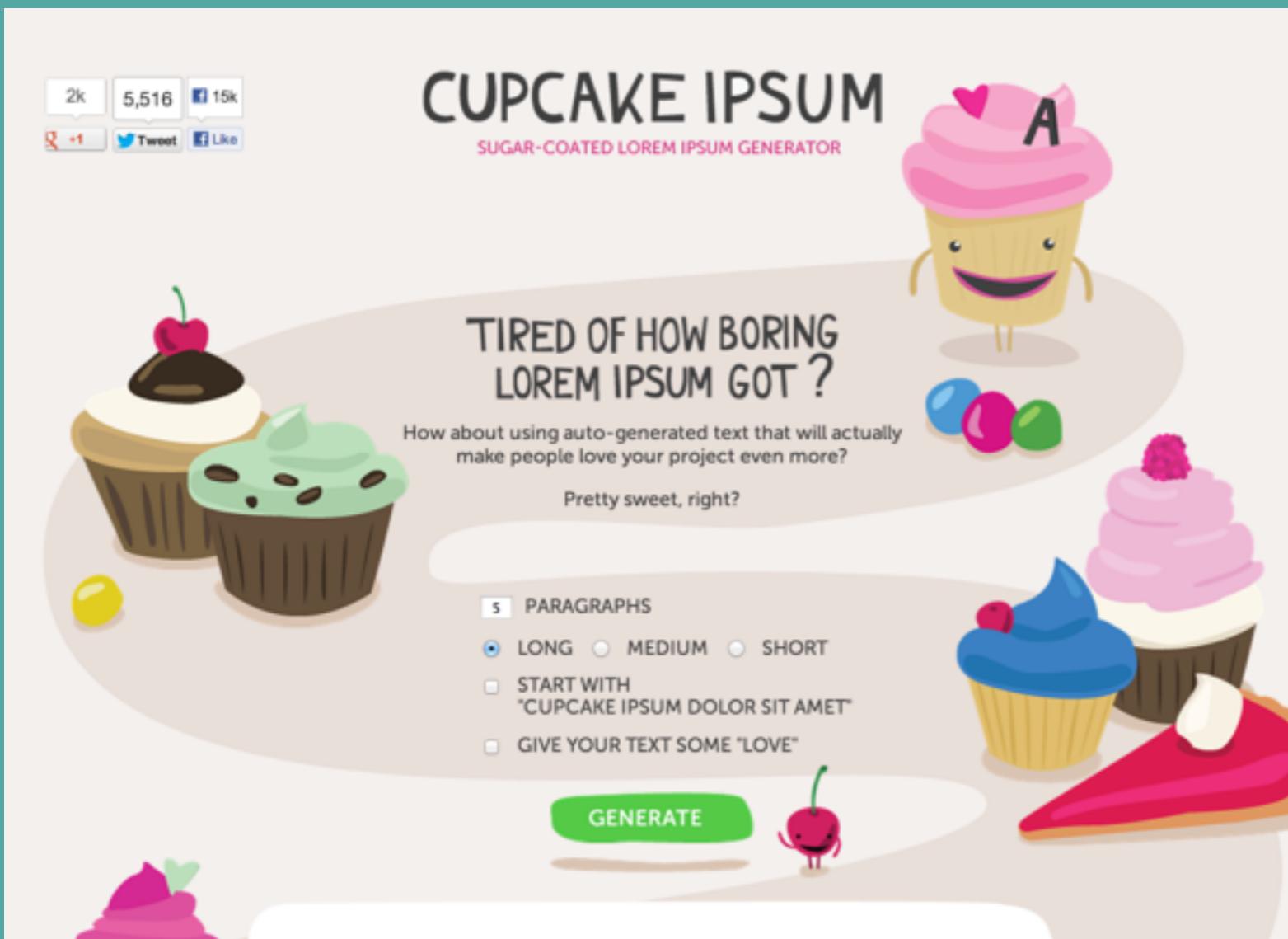
paragraphs
 words
 bytes
 lists

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

Generate Lorem Ipsum

**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