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

Hyper**T**ext **M**arkup **L**anguage

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

Girl Develop
view-source
CSS from htt
view-source girldevelopi...
<body class="home">
<header>

<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>

+

CSS

Girl Develop
view-source
CSS from htt
/* 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="/stylesheets/screen.css" media="screen, proj
/* line 17, ../../../../../.rvm/gems/ruby-1.9.3-p194@girldevelopi
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, s, 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, ../../../../../.rvm/gems/ruby-1.9.3-p194@girldevelopi

=

Girl Develop
view-source
CSS from htt
girldevelopitpgh.com
Girl Develop It
don't be shy. develop it. Pittsburgh
CLASSES COMMUNITY RESOURCES ABOUT
IT CAN BE INTIMIDATING FOR WOMEN TO LEARN AND ASK QUESTIONS WHEN THEY ARE IN AN EXTREME MINORITY
WHILE OPEN AND WELCOMING, TODAY'S BUDDING DEVELOPER COMMUNITY IS UP TO 91% MALE.

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

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>
          ▼<li class="topic-box green">
            ▼<a href="/chapters">
               <img alt="Community" src="/assets/community-890825010c523e74ff827e2b39a6f137.png">
               <div class="topic">
               community
               </div>
             </a>
           </li>
```

▶ Computed Style — Show inherited

▼ Styles

```
element.style {

}
```

Matched CSS Rules

```
media="screen"                                  girldevelopit.com
home-04d1c9db0335df86c9832cd073a527bf.css:1
.topics .topic-buttons .topic-box img {
  display: block;
  margin: ▶10px auto;
  width: 80%;
}
```

```
img {                                  user agent stylesheet
  display: inline-block;
```

html | body | #page_container | #page | div#page-container | div#body-content | div.topics | div.overlay-div | ul.topic-buttons | li.topic-box.green | a | img

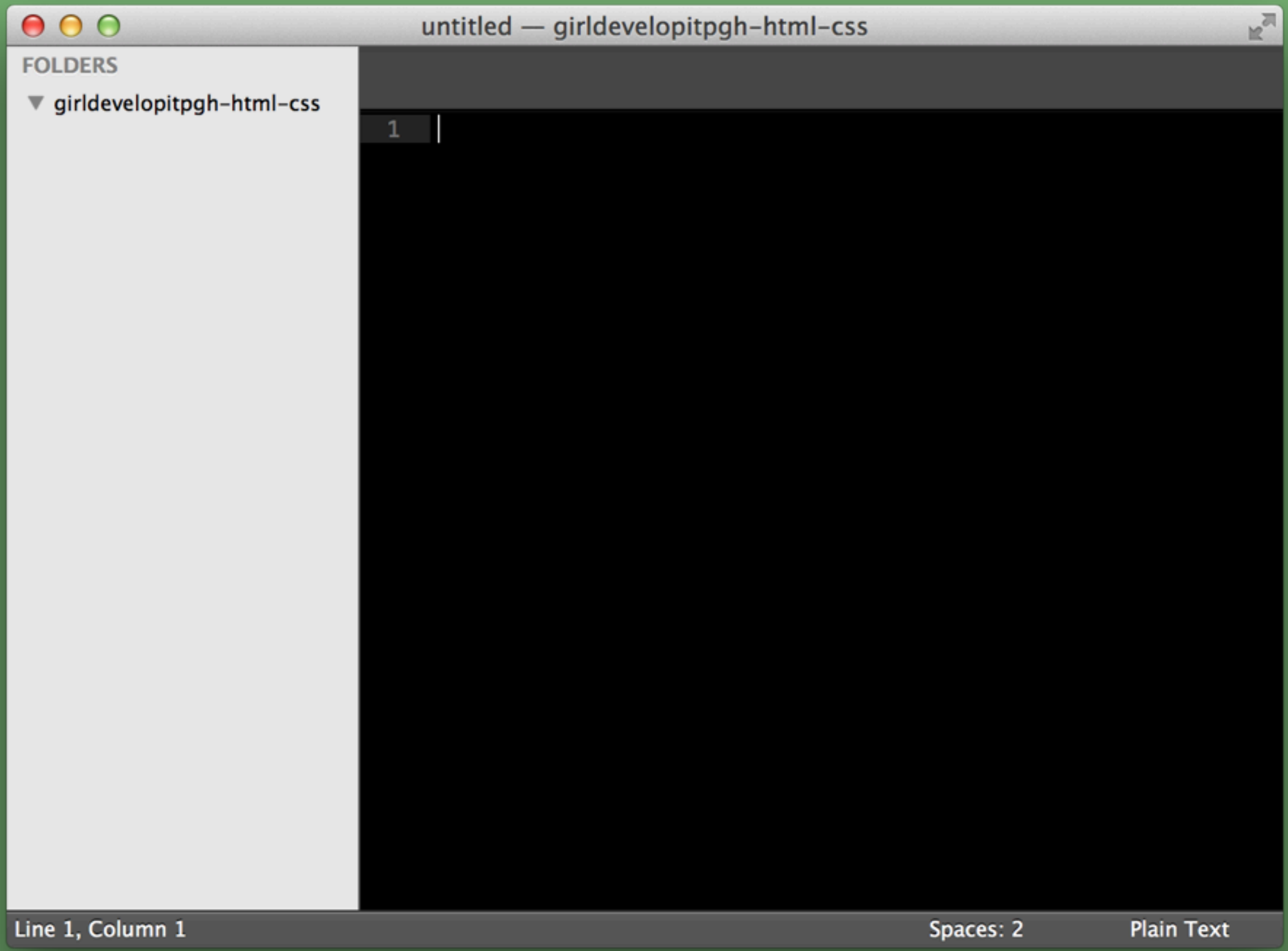
TEXT EDITOR

- 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


untitled — girldevelopitpgh-html-css
FOLDERS
girldevelopitpgh-html-css
1
Line 1, Column 1
Spaces: 2
Plain Text

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>
```

index.html — girldevelopitpgh-html-css

FOLDERS

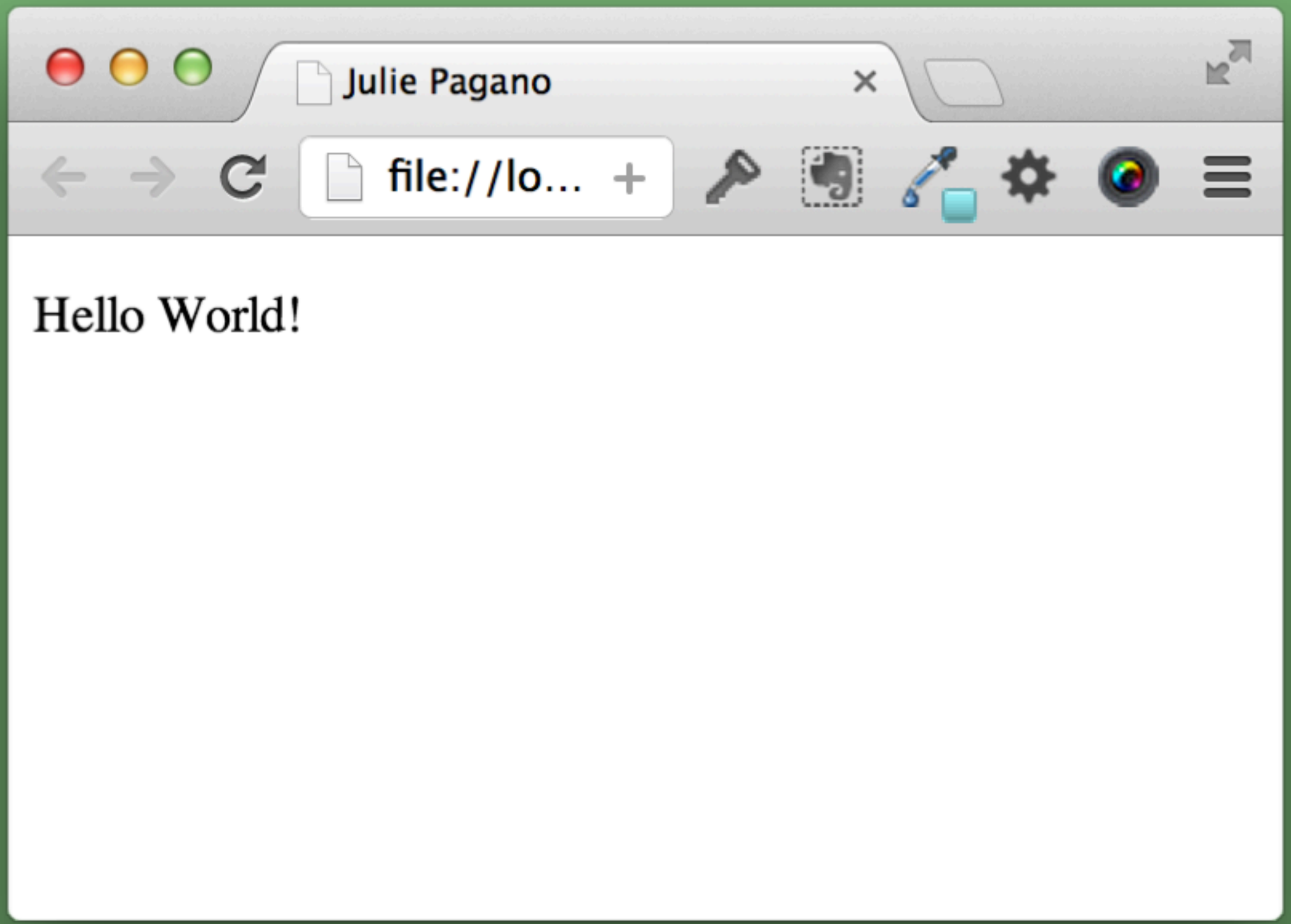
girldevelopitpgh-html-css

index.html

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>
```

Line 9, Column 8 Spaces: 2 HTML


Julie Pagano
file://lo...
Hello World!

Julie Pagano

file://localhost/Users/...

Hello World!

Elements Resources Network Sources »

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

▶ Computed Style ☐ Show inherited

▼ Styles

```
element.style {

}
```

Matched CSS Rules

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

▶ Metrics

▶ Properties

html body

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

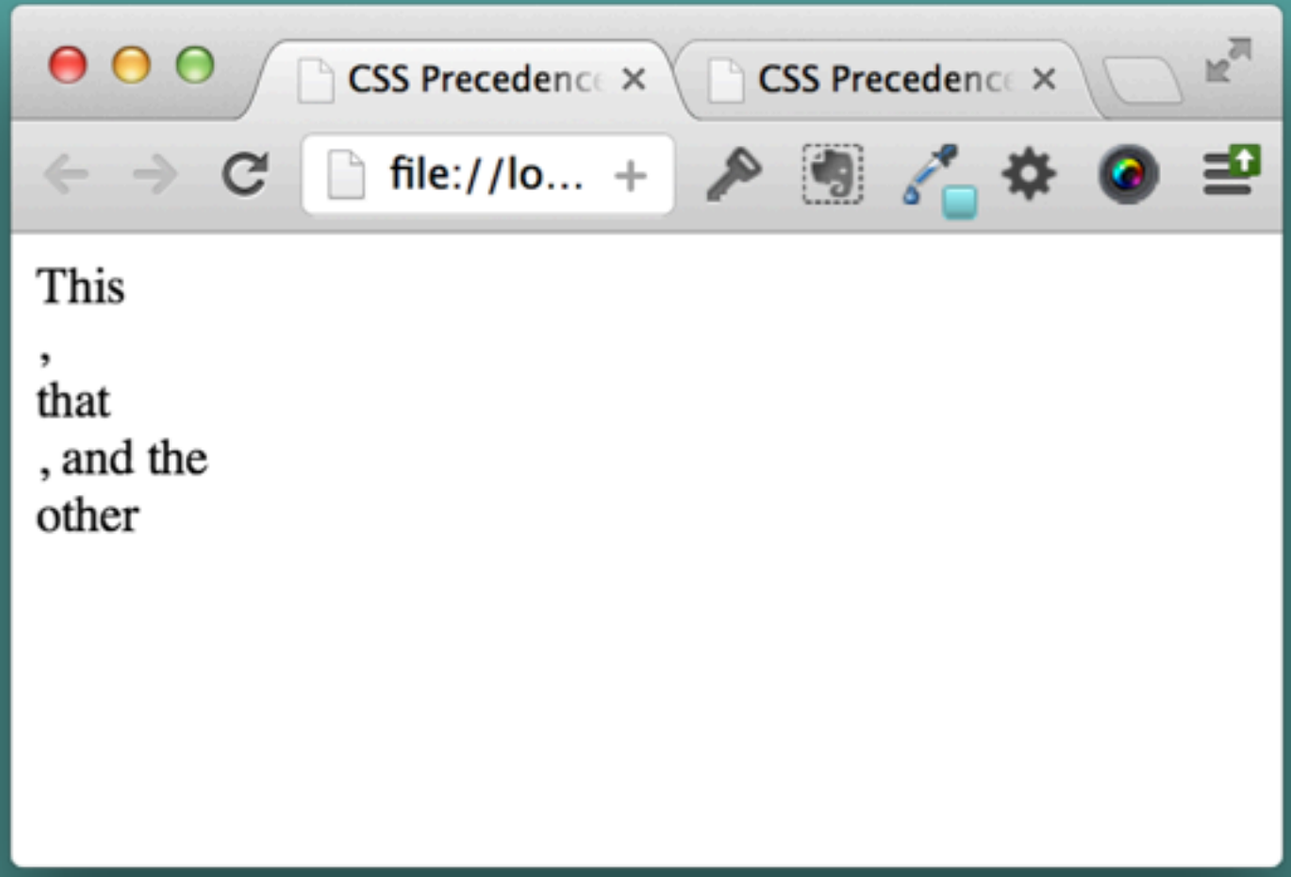
Generic container for content

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

- Inline element
- Usually good for styling text

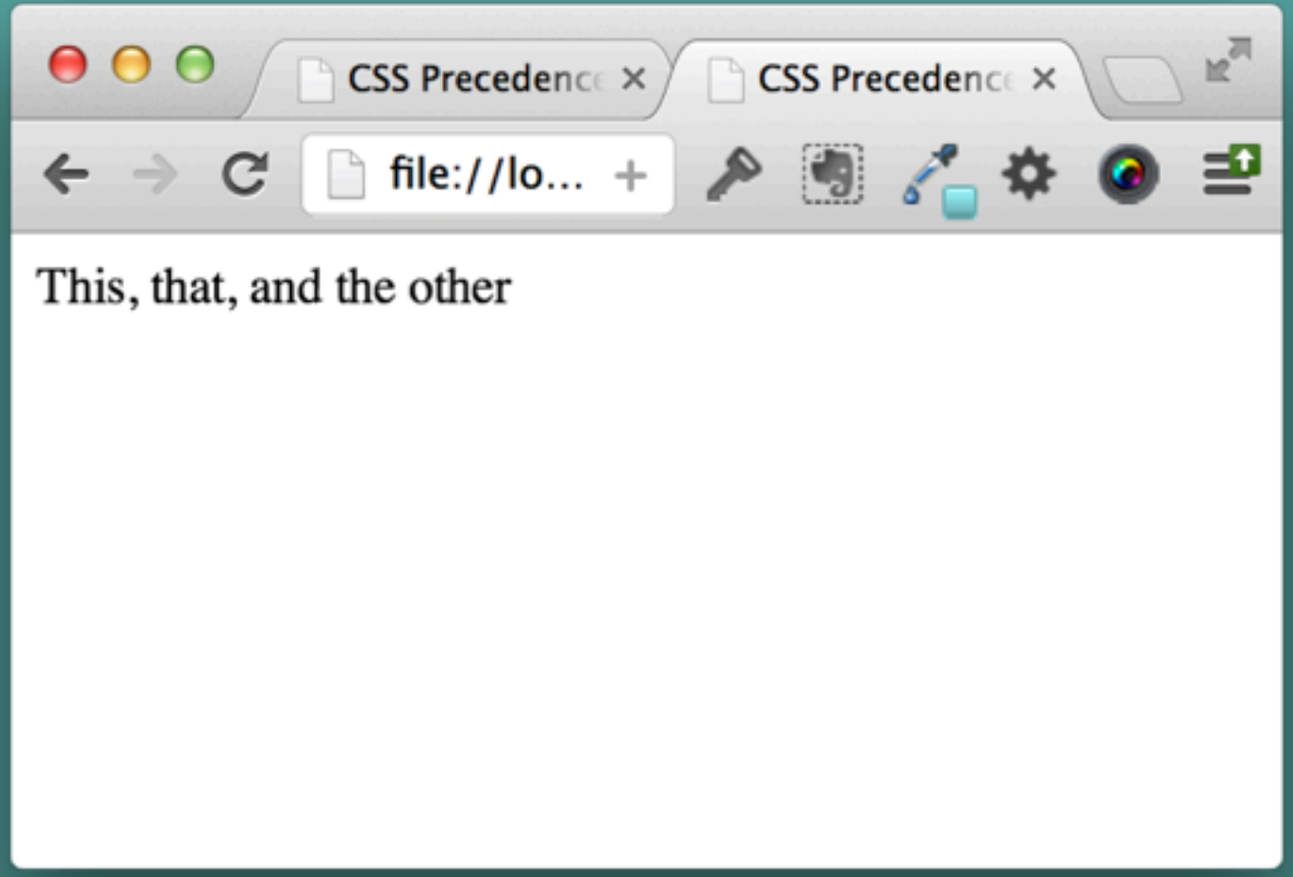
BLOCK

```
<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 <em>stress emphasis</em>.</p>

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

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

ANCHORS/LINKS

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

Girl Develop IT Pittsburgh

IMAGES

```
<img src="kitten.jpg"
     alt="kitten">
```

IMAGES

```
<img src="kitten.jpg"
     alt="kitten">
```

kitten

IMAGE LINKS

```
<a href="http://girldevelopitpgh.com">
  <img src="gdipgh-logo.png" alt="Girl Develop IT Pittsburgh">
</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

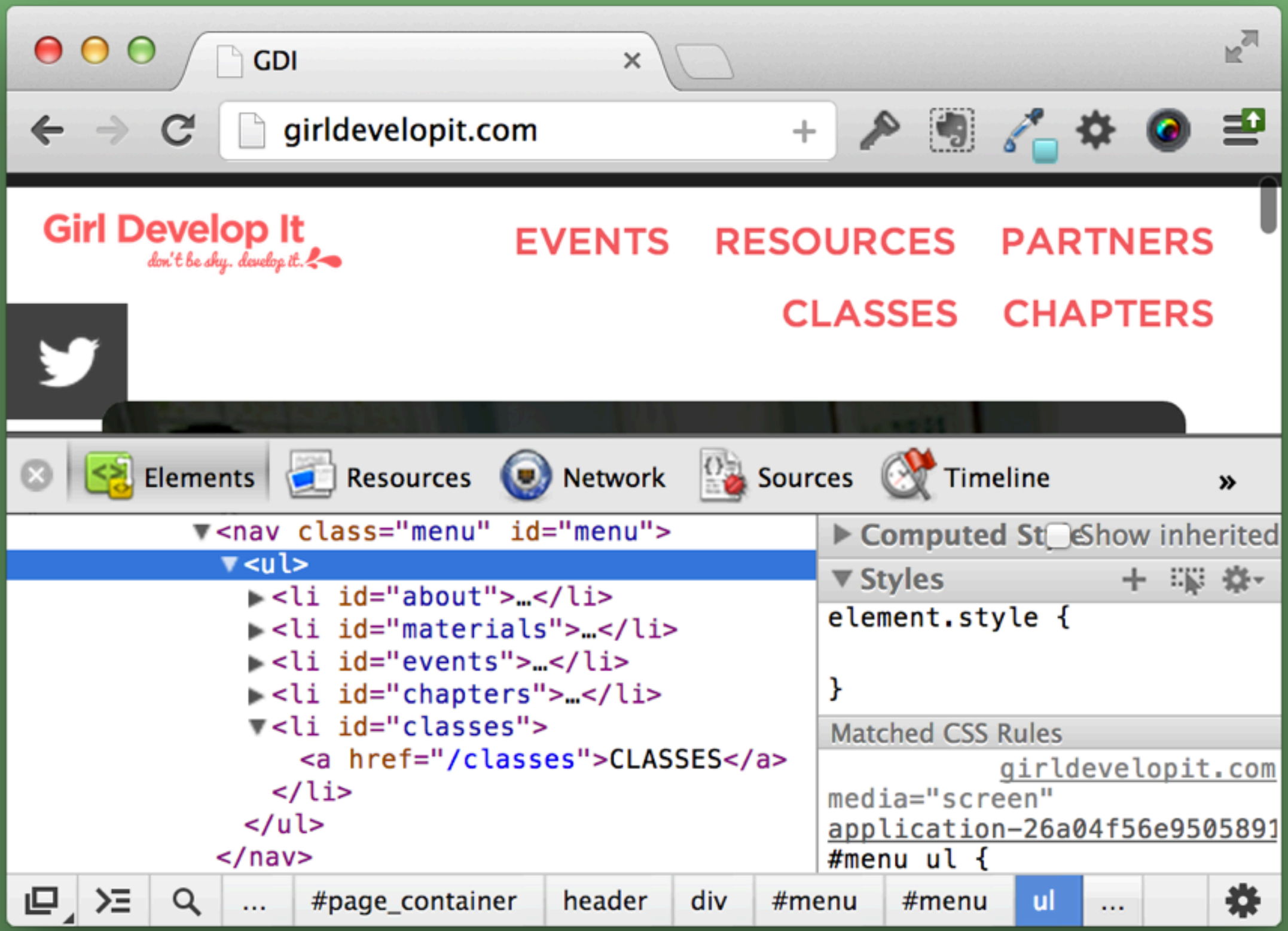
Ordered list

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


GDI
girldevelopit.com
Girl Develop It
don't be shy. develop it.
EVENTS
RESOURCES
PARTNERS
CLASSES
CHAPTERS
Elements
Resources
Network
Sources
Timeline
<nav class="menu" id="menu">
<ul>
<li id="about">…</li>
<li id="materials">…</li>
<li id="events">…</li>
<li id="chapters">…</li>
<li id="classes">
<a href="/classes">CLASSES</a>
</li>
</ul>
</nav>
Computed St
Show inherited
Styles
element.style {
}
Matched CSS Rules
girldevelopit.com
media="screen"
application-26a04f56e9505891
#menu ul {
...
#page_container
header
div
#menu
#menu
ul
...

HTML REFERENCES

- Mozilla Developer Network
- HTML Dog

PROJECT REQUIREMENTS

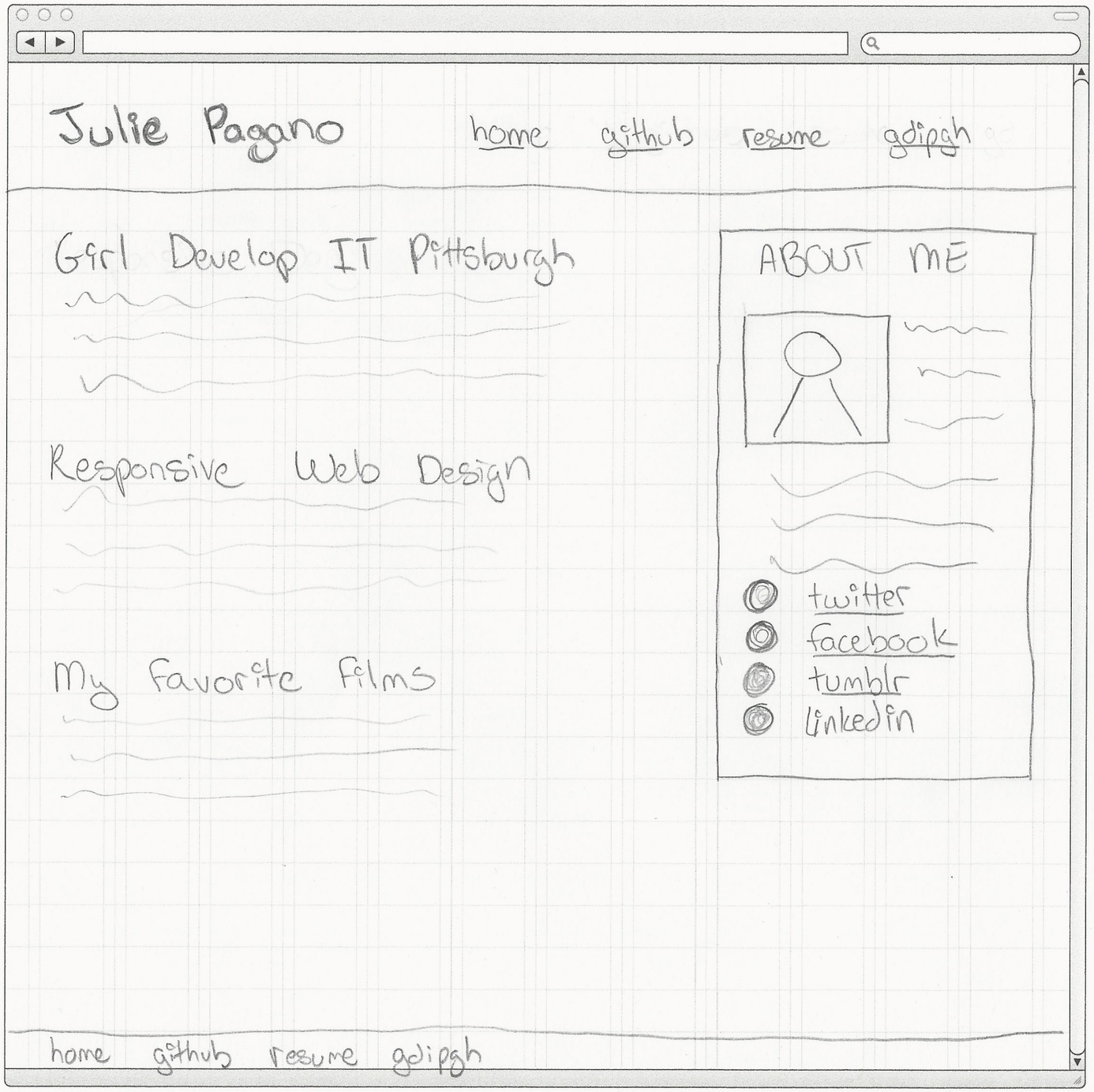
Goal: Create a personal web site with articles

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



12 columns

My Site

Header:
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.

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 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.

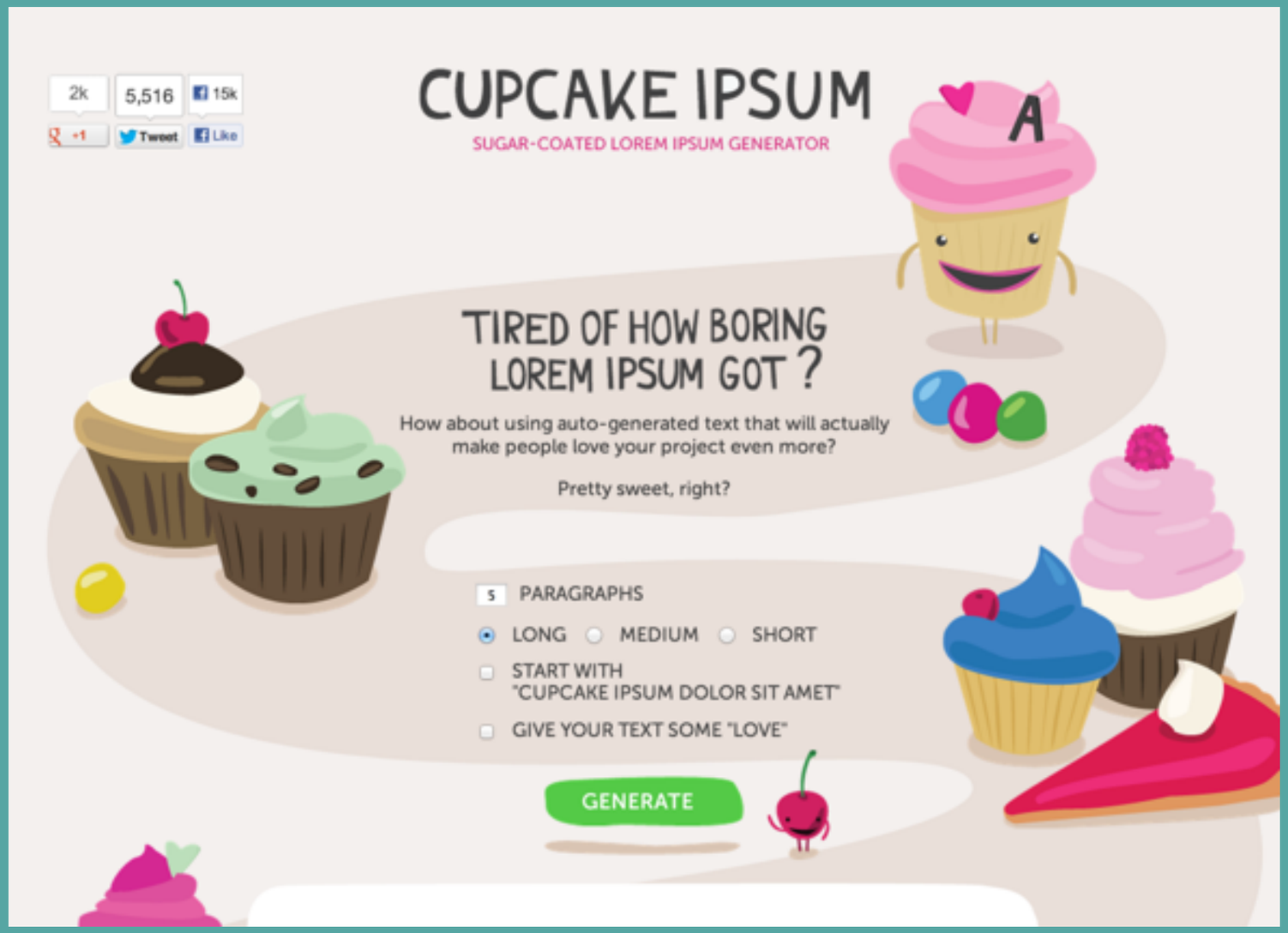
Where can I get some?

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

file://localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/03-html-site-...

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

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