



BEGINNING HTML AND CSS

WELCOME!

Some "rules"

- Every question is important
- Help each other
- Have fun

WHAT IS HTML?

HTML is the code that allows us to build websites

If you 'view the source', you see this

```
33 </li>
34 </li>
35 <a href="http://www.facebook.com/girldevelopit" alt="Girl Develop It on Facebook" target="_blank"></a>
36 </li>
37 </ul>
38 <div class='header'>
39 <a href="/"></a>
40 <span id='menu'>
41 <nav class='menu' id='menu'>
42 <ul>
43 <li id='about'>
44 <a href="/partners">PARTNERS</a>
45 </li>
46 <li id='materials'>
47 <a href="/materials">RESOURCES</a>
48 </li>
49 <li id='events'>
50 <a href="/events">EVENTS</a>
51 </li>
52 <li id='chapters'>
53 <a href="/chapters">CHAPTERS</a>
54 </li>
55 <li id='classes'>
56 <a href="/classes">CLASSES</a>
57 </li>
58 </ul>
59 </nav>
60
61 <div class='clear'></div>
62 </span>
63 </div>
64 </header>
65
66 <section id='page'>
67 <div id='page-container'>
68 <div id='body-content'>
69 <div class='topics'>
70 <div class='overlay'></div>
71 <div class='overlay-div'>
72 <p class='tagline'>
73 Empowering women of diverse backgrounds from around the world to learn how to develop software
74 </p>
75 <ul class='topic-buttons'>
```

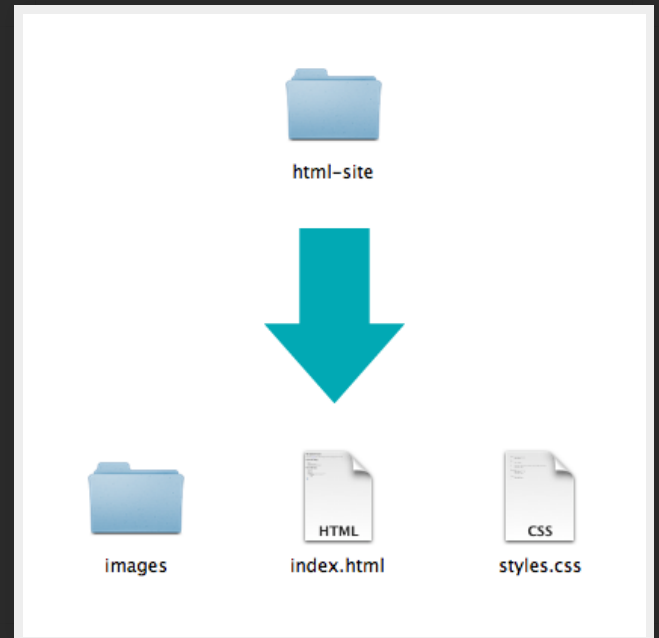
GET STARTED: FOLDER STRUCTURE

All the files for your site should be stored within the same folder.

This includes:

- HTML Files
- CSS Files
- Images
- Script files
- Anything else that will appear on your site

Note: File names should not include spaces or special characters. File names ARE case sensitive.



WHAT WE'LL BE BUILDING TODAY

Today we will be learning how to code a site from scratch using paragraphs, headings, links, images, and lists.

Welcome to my first site!

Welcome to Girl Develop it! Today we will be making a simple site that has headings, paragraphs, images, and links.

The Basics

At first, it won't seem like much, but these are the building blocks of web development. A site cannot exist without these very basic elements.

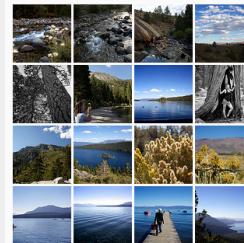
Images add interest to any website (even this one)

My best friends and I having lunch on Lake Tahoe!



Links take users to interesting (or not so interesting) new places!

I took over 400 photos in Lake Tahoe, but I only uploaded 33 of my favorite photos to Flickr.



Lists help organize content better

My **favorite** things about Lake Tahoe:

1. The Emerald Bay 1/2 Marathon
2. Switchback roads
3. Seeing the mountains
4. Making new friends
5. Dancing with professional GoGo Dancers

Send me a message and I'll tell you all about my trip

Line breaks help break up long lines of text.

Send me an e-mail at:
corrinajo@gmail.com
or follow me on [Twitter](#)

ANATOMY OF A WEBSITE

Your Content
+ HTML: Structure
+ CSS: Presentation
= Your Website

A website is a way to present your content to the world, using HTML and CSS to present that content & make it look good.

ANATOMY OF A WEBSITE

Concrete example

- A paragraph is your content
- Putting your content into an HTML tag to make it look like a paragraph is Structure

```
<p>A paragraph is your content</p>
```

- Make the font of your paragraph blue and 18pt is presentation (CSS)

A paragraph is your content

ANATOMY OF AN HTML ELEMENT

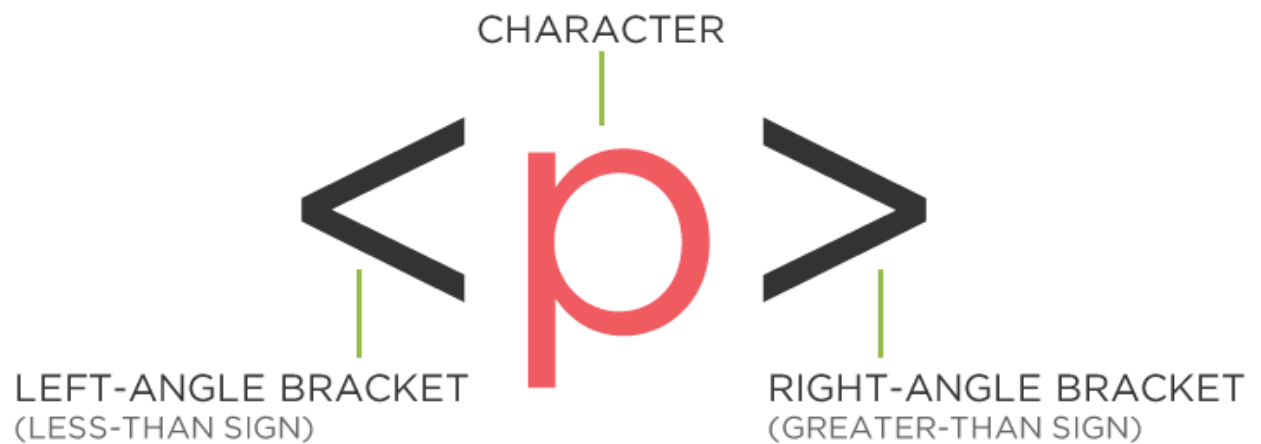
- **Element**
 - An individual component of HTML
 - Paragraph, heading, table, list, div, link, image, etc.
- **Tag**
 - Marks the beginning & end of an element
 - Opening tag and Closing Tag
 - Tags contain characters that indicate the tags purpose

```
<tagname>Stuff in the middle</tagname>
```

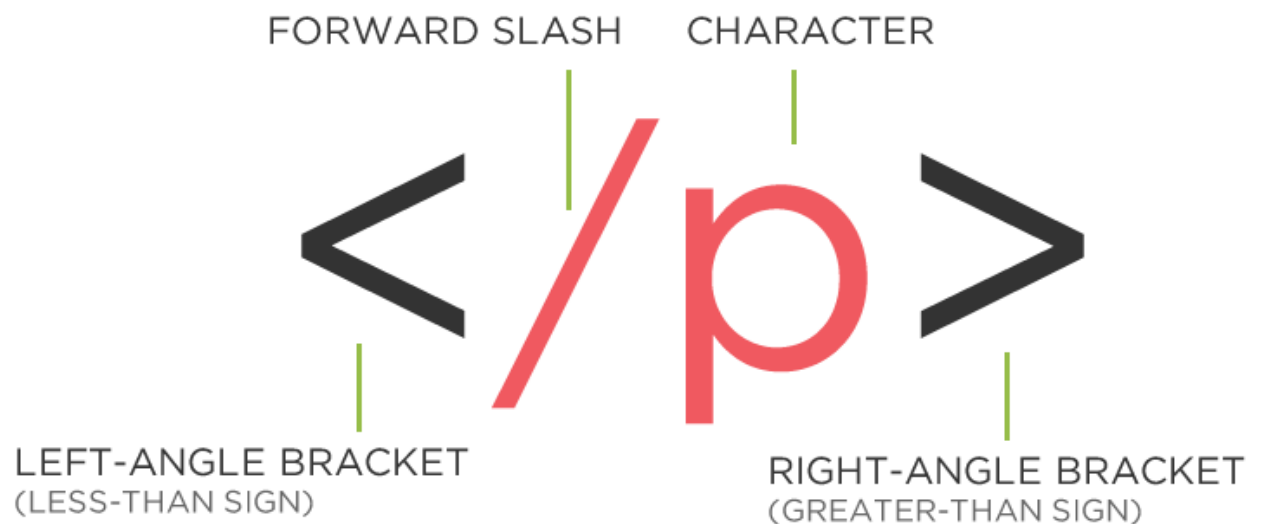
```
<p> This is a sample paragraph.</p>
```


TAG BREAKDOWN

OPENING TAG



CLOSING TAG



DOCTYPE

The first thing on an HTML page is the doctype, which tells the browser which version of the markup language the page is using.

```
<!DOCTYPE html>
```

* The doctype is case-insensitive.
DOCTYPE, doctype, DocType and DoCtYpe are all valid.

HTML TAG

After `<doctype>`, the page content must be contained between `<html>` tags.

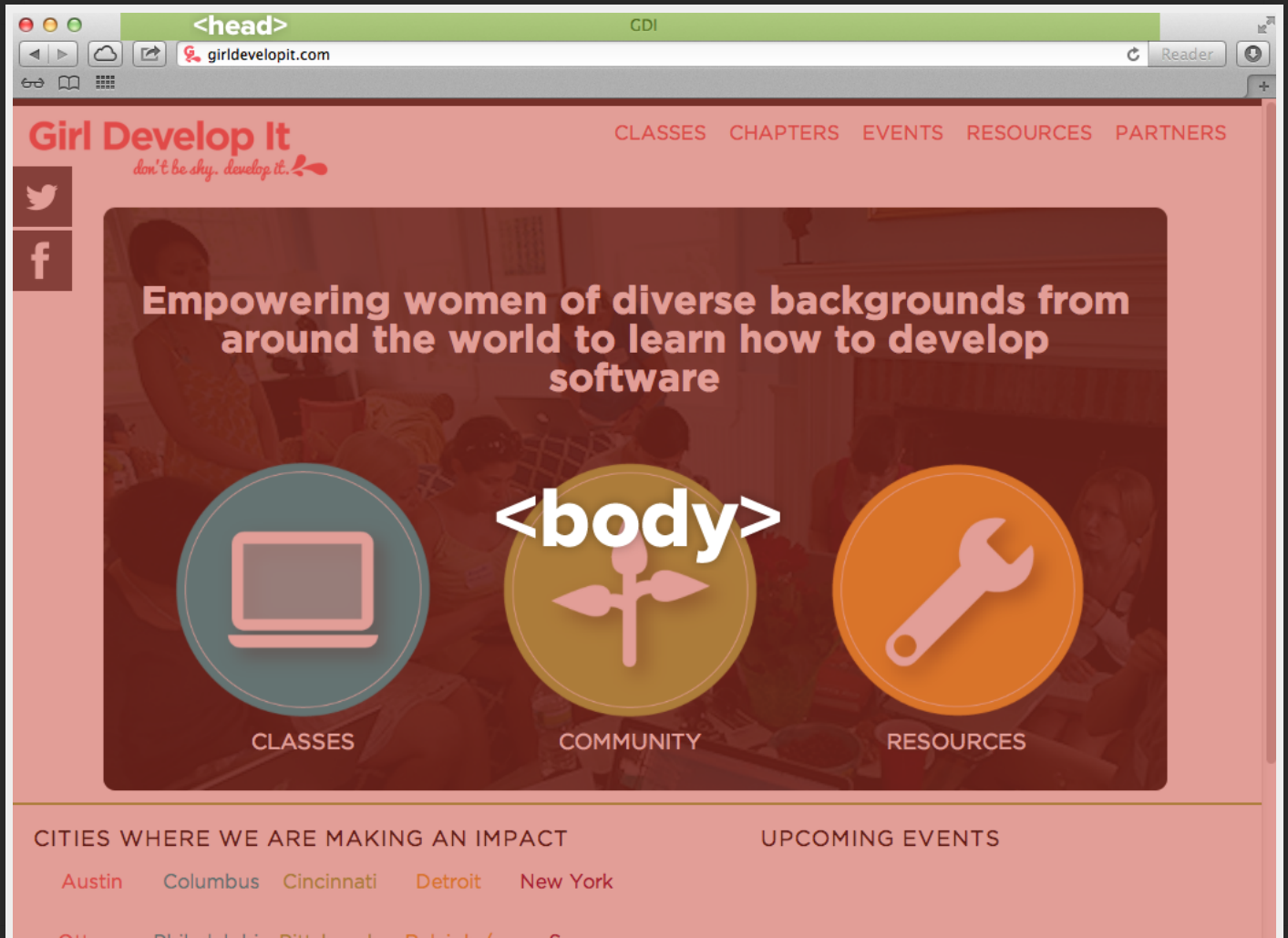
```
<!DOCTYPE html>  
<html>  
  
</html>
```

HEAD AND BODY TAGS

Head: The head contains the title of the page & meta information about the page. Meta information is not visible to the user, but has many purposes - one of which is to tell search engines about your page, who created it, and a description.

Body: The body contains the actual content of the page. Everything that is contained in the body is visible to the user.

HEAD AND BODY TAGS: EXAMPLE



HEAD AND BODY TAGS

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title of the page </title>
  </head>
  <body>
    The page content here.
  </body>
</html>
```

LET'S DEVELOP IT!

Let's get our web page set up with a doctype, head, title and body.

Later we'll add some content to it!

NESTING

All elements "nest" inside one another

Nesting is what happens when you put other containing tags inside other containing tags. For example, you would put the `<p>` inside of the `<body>` tags. The `<p>` is now nested inside the `<body>`



Whichever element **OPENS** first
CLOSES last

NESTING: EXAMPLE

Elements are 'nested' inside the `<body>` tag.

```
<body>
  <p>A paragraph inside the body tag</p>
</body>
```

Paragraphs 'nested' inside list items.

```
<ul>
  <li>
    <p>A paragraph inside a list item</p>
  </li>
</ul>
```

* White space is only for humans!

EXAMPLE: PARAGRAPHS

Paragraphs allow you to format your content in a readable fashion.

Starting with the higher resolution is my preferred way to design apps for Apple devices, as it allows me to set the appearance of each single pixel, and add details which won't be visible on the scaled-down version. In the worst case, if you have to use bitmap textures for some reason, the scaled-down version will look a lot better than a scaled-up one (which will have blurry textures).

When designing in 2x resolution, you have to think a bit more about what you're doing. For example, you have to avoid sizes like 3 or 5 pixels for border widths, and the same applies to effects like drop shadows — a scaled-down blur ratio of 5 pixels would result in 2 or 3 px blur, and neither would be the result you want to achieve when aiming for real perfection.

I have seen other designers doing it the other way: starting with the normal size, and scaling the whole design up when it is done. Either way is absolutely fine — I think it always depends on the designer's personal preference. However, in this article I will only describe the way to start with the 2x resolution graphics first.

* You can edit how paragraphs are displayed with CSS

ELEMENT: HEADING

```
<h1>Heading 1</h1>  
<h2>Heading 2</h2>  
<h3>Heading 3</h3>  
<h4>Heading 4</h4>  
<h5>Heading 5</h5>  
<h6>Heading 6</h6>
```

HEADING 1

HEADING 2

HEADING 3

HEADING 4

HEADING 5

HEADING 6

* Heading number indicates hierarchy, not size. Think: Outlines from high school papers

EXAMPLE: HEADINGS

From 63% to 99% Profile Completion

HiredMyWay takes the traditional recruiting process online, connecting candidates, effective hiring process.

A Forbes 2012 Top Career Site.

Treat your users like humans again.

It's just common sense: a fun game is better than a jumble of letters you can't read. That's why 98% of users prefer PlayThru to CAPTCHA. And the other 2%? Well, some people are gluttons for punishment.

USE WORDPRESS

It may seem self-evident, but using WordPress for yourself could be publishing your own personal blog or building a member. Find a way to use WordPress. It's a little crazy to to the top of something when you've never experienced it the user.

I'm Not A Developer! What Can

You do not need to know how to write code to get involved in WordPress were developers, then WordPress today. Here are some of the things you can do:

FORMATTED TEXT

```
<p>  
  Here is a paragraph with <em>Emphasiz  
ed</em> text and <strong>Important</str  
ong> text.  
</p>
```

Here is a paragraph
with *Emphasized*
text and **Important**
text.

* Notice: em and strong are meant to indicate meaning through style. If you want to have italicized for appearance and not to communicate meaning, you should use CSS.

LET'S DEVELOP IT!

Let's add some content to our site!

Add one of each level of heading with 1-2 short paragraphs of text below each heading.

Italic and bold some text within a few paragraphs.

ELEMENT: LINK

Links have three components

- Tag: `<a>`
- Href attribute:
"http://www.girldevelopit.com"
- Title attribute: "Girl Develop It"

```
<a href="http://www.girldevelopit.com" title="Girl Develop It Homepage">GDI</a>
```

GDI

The `<a>` tag surrounds text or images to turn them into links

RELATIVE VS. ABSOLUTE PATHS FOR LINKS & IMAGES

- **Relative**

- Relative paths change depending upon the page the link is on.
 - Links within the same directory need no path information.
`"filename.jpg"`
 - Subdirectories are listed without preceding slashes.
`"images/filename.jpg"`

- **Absolute**

- Absolute paths refer to a specific location of a file, including the domain.
`"http://www.girldevelopit.com/chapters/detroit"`
- Typically used when pointing to a link that is not within your own domain.

LET'S DEVELOP IT

Let's add links to our site!

Add links that open in the same window,
a new window and link to an e-mail
address.

ELEMENT: IMAGE

Images have three components

- Tag: ``
- Src attribute:
"http://girldevelopit.com/assets/pink-logo.png"
- Alt attribute: "Girl Develop It logo"

```
<img src = "http://girldevelopit.com/assets/pink-logo.png" alt = "Girl Develop It Logo" />
```



* Notice: This tag is our first example of a stand-alone or "self-closing" element.

ELEMENT: LINE BREAK

```
<p>  
  Imagine there's no Heaven <br/>  
  It's easy if you try <br/>  
  No hell below us <br/>  
  Above us only sky  
</p>
```

Imagine there's no
Heaven
It's easy if you try
No hell below us
Above us only sky

LET'S DEVELOP IT!

Let's add some images and line breaks
to our page.

We can even turn our images into links!

QUESTIONS?



KEEP PRACTICING!

Practice using what we covered in class.

Suggestion: Make a portfolio page for yourself.

- Name and contact info (email, twitter, facebook links)
- Photo(s)
- Information about you, background, likes/dislikes
- Lists with past jobs or projects, countries visited

RESOURCES

- www.w3schools.com
- html5doctor.com
- Google (will become your best friend)

HTML/CSS ~ Girl Develop It ~

