CS336 - WebStorm - Getting Started

1. Start WebStorm

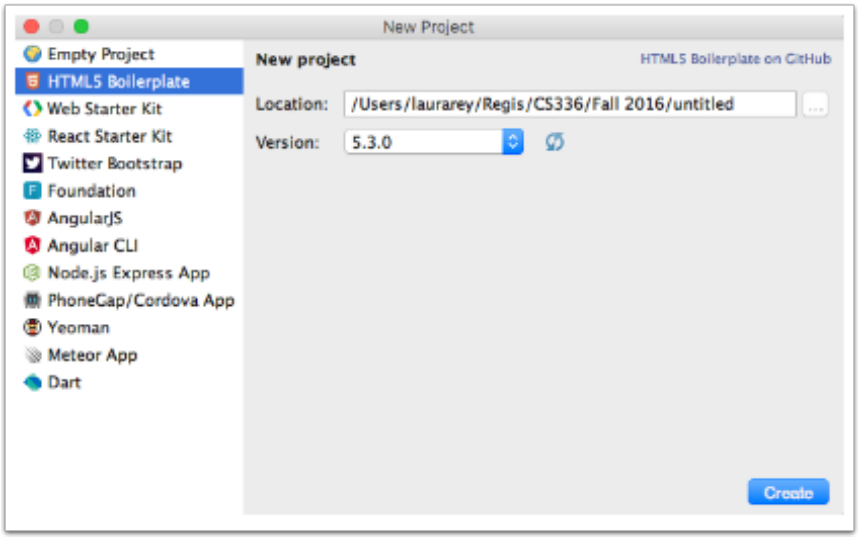
After installing WebStorm, start the application.

A welcome panel will be displayed.

Select "Create New Project"

2. Select the Type of Project

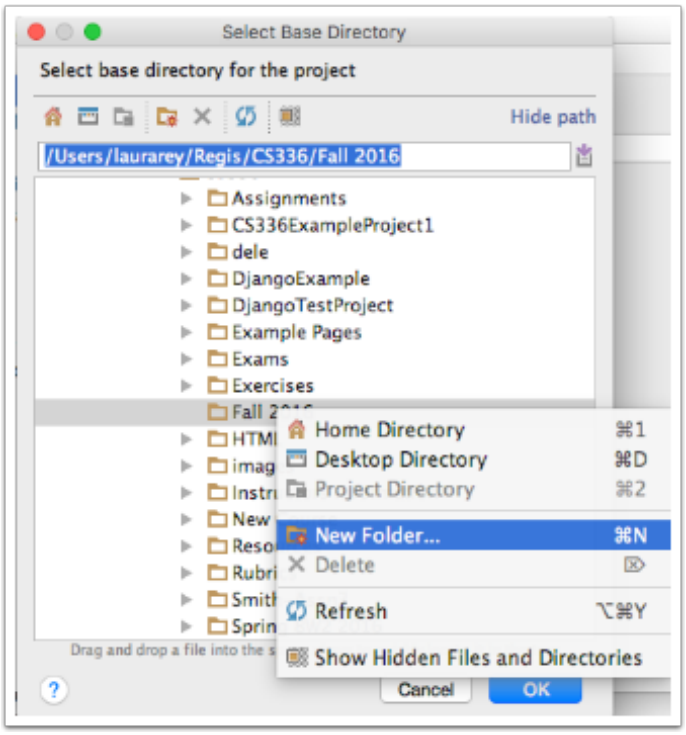
We'll start with HTML5 Boilerplate because it will set up a file structure for your site. HTML5 Boilerplate is a template (literally boilerplate) package. It can be downloaded separately at html5boilerplate.com. However, it comes pre-installed in WebStorm.



3. Select the location

Ciick in the location field and browse to the directory in which you wish to store your project.

Right-click and create a new folder.

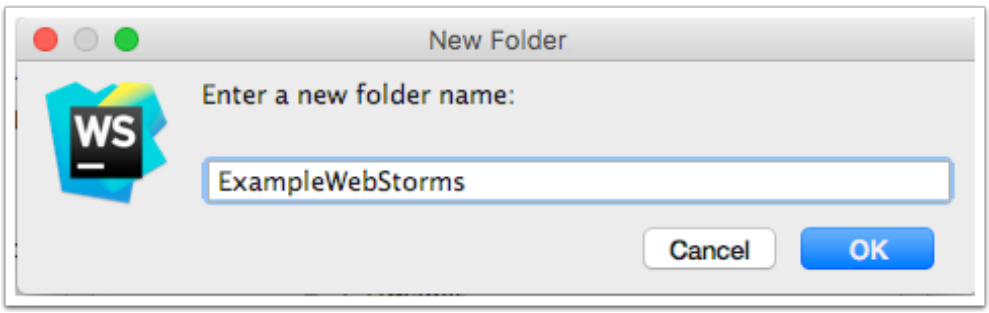


4. Name the Folder

For the class assignments, the folder will be the name of the assignment.

Then, click OK.

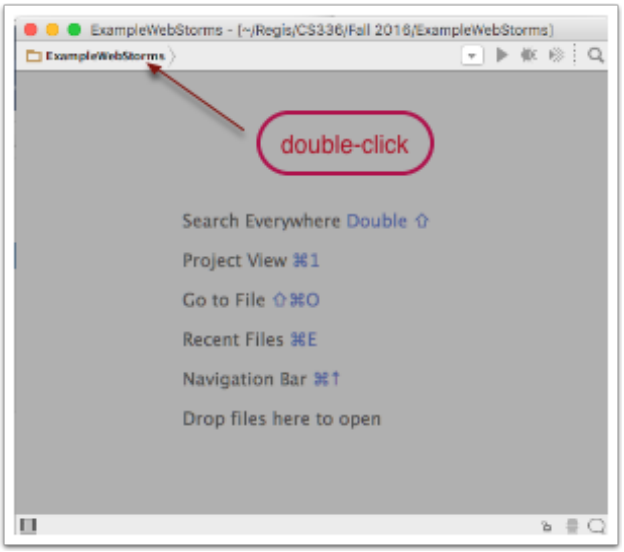
A new project will be created and loaded.



5. Open the Project

To open the file structure of the project, double-click on the project name in the upper left-hand corner or use one of the keyboard shortcuts shown. (On Windows, they will be slightly different.)

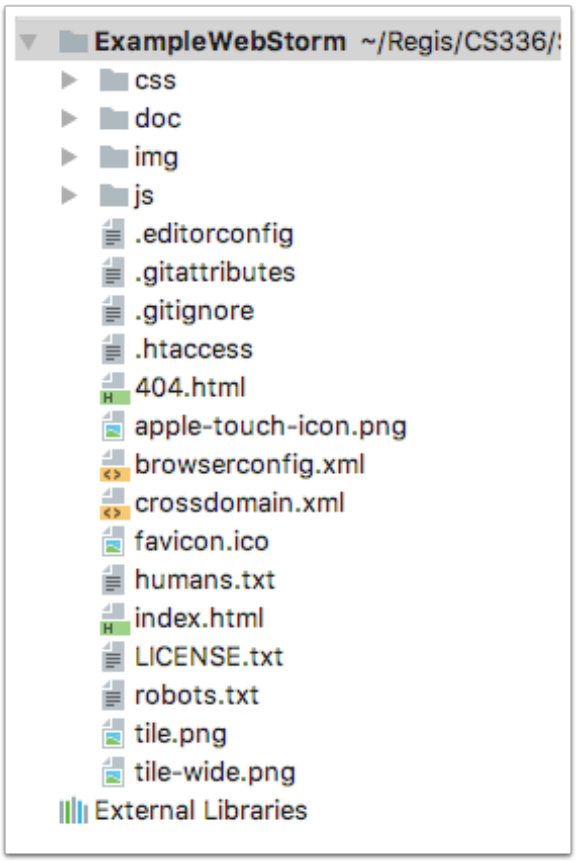
All the files and folders in the project will be displayed.



6. So Many Files!

Don't be overwhelmed by all the files. Some we'll explore. Others, we will delete.

Every assignment will have its own project.



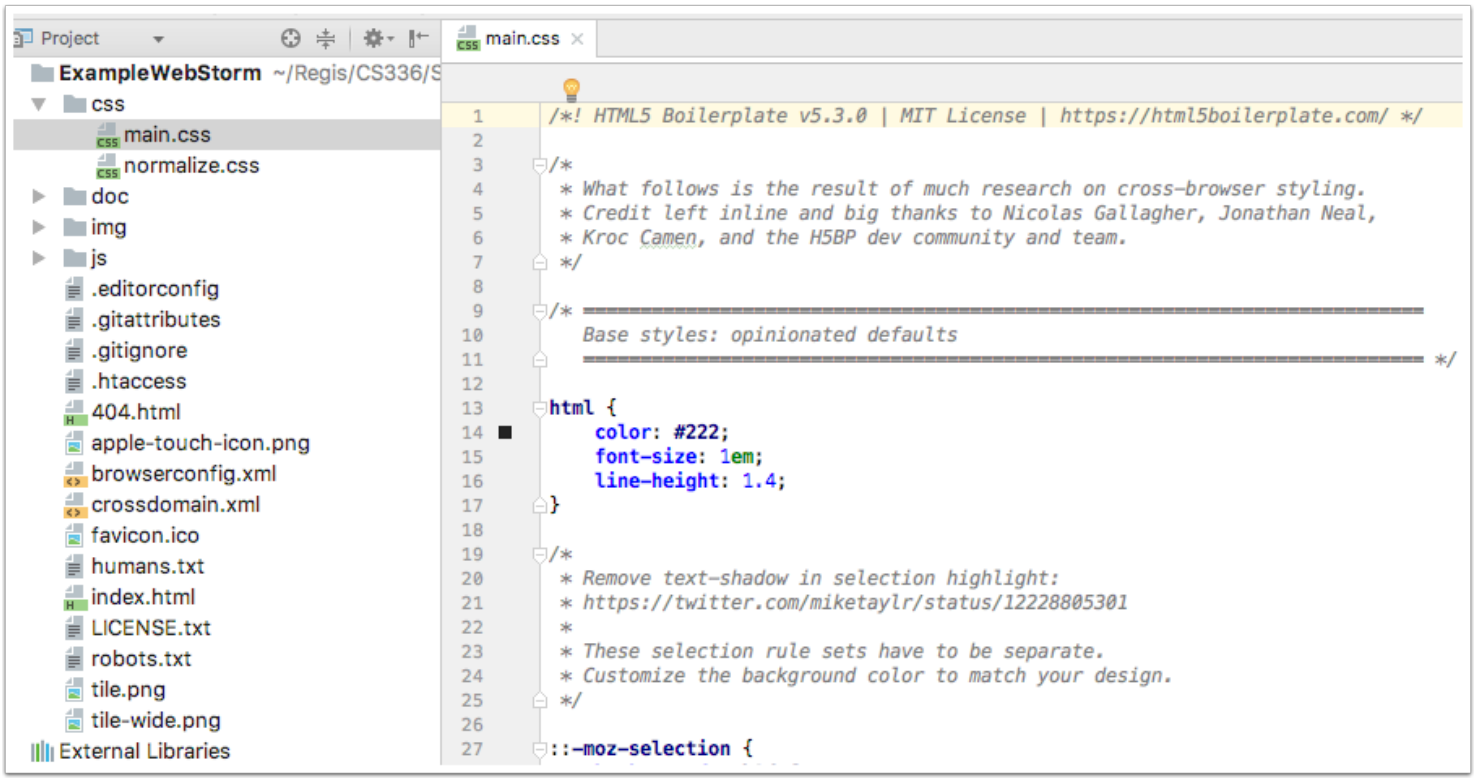
6.1 Expand the css Folder

This is the folder that will hold all the Cascading Style Sheets for the project.

Double-click on **main.css**

The file will be opened.

main.css contains some basic style options which will be explored later in the course.



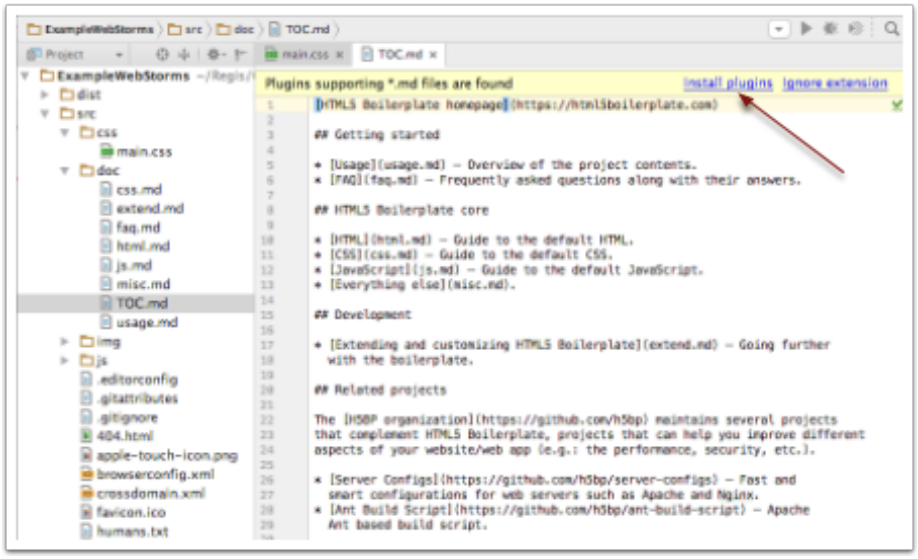
6.2 Expand the doc Folder

A list of files, all with ".md" extensions will be listed.

Double-click on the **TOC.md** file to open it.

WebStorm may inform you that it found a plugin to support .md files.

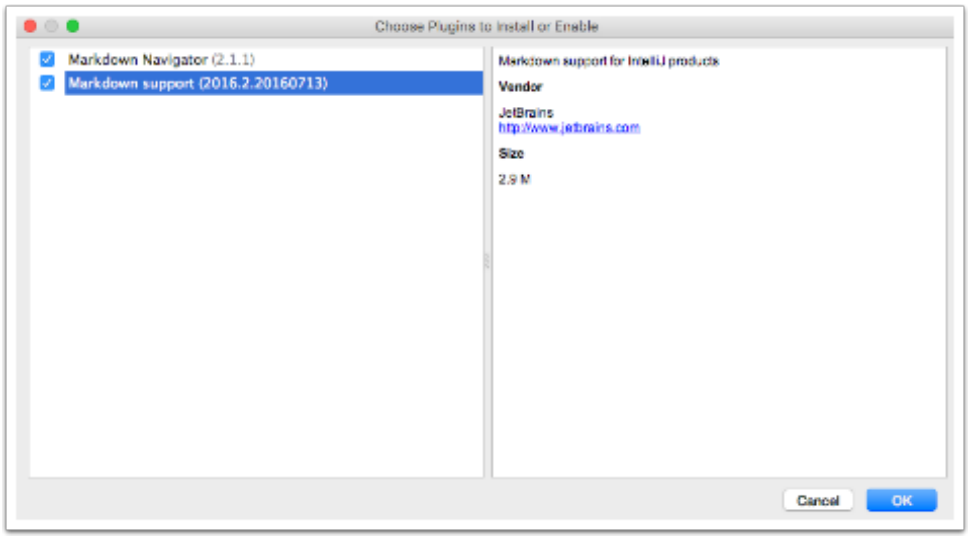
Click Install the plugins.



6.3 Choose Plugins to Install or Enable

Check both of the plugins below and click OK.

The plugins will be installed.



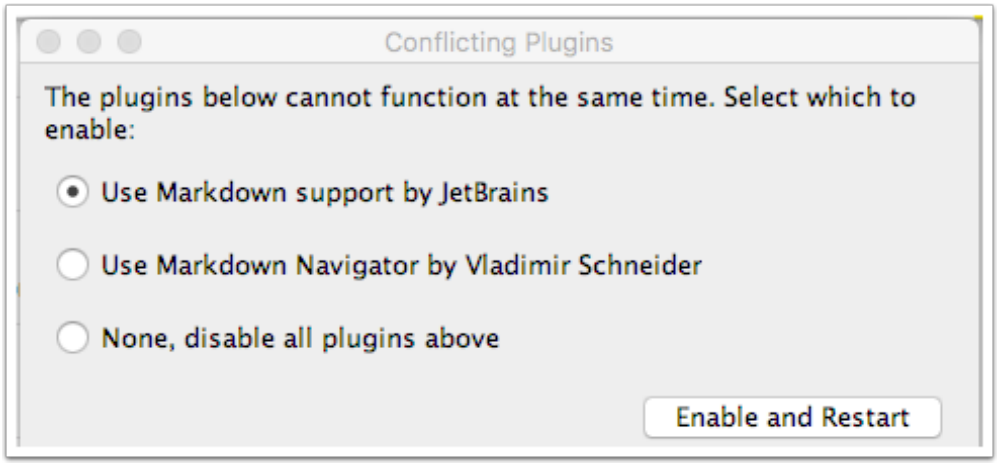
6.4 Review the installation messages

1. Click on the green message balloon in the lower right-hand corner.
2. Read the event log and click Restart.

WebStorm will quit and restart.

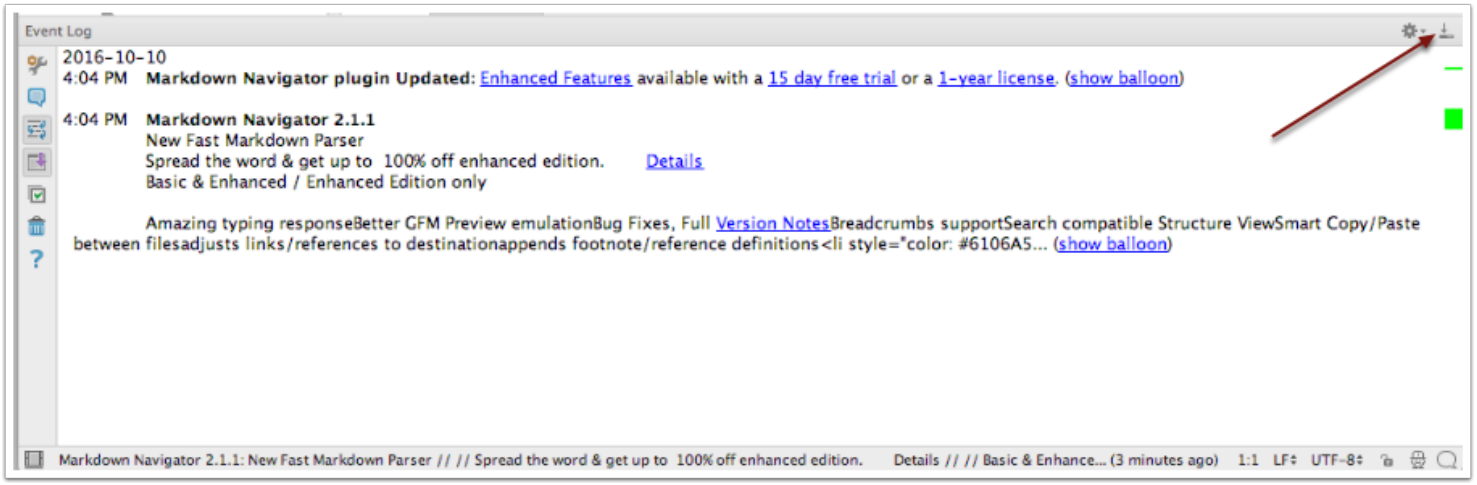
6.5 Select Markdown Plugin Option

You may see an option to select which plugin to use for Markdown. Select "Use Markdown support by JetBrains". (This isn't critical. Please feel free to explore available plugins.)



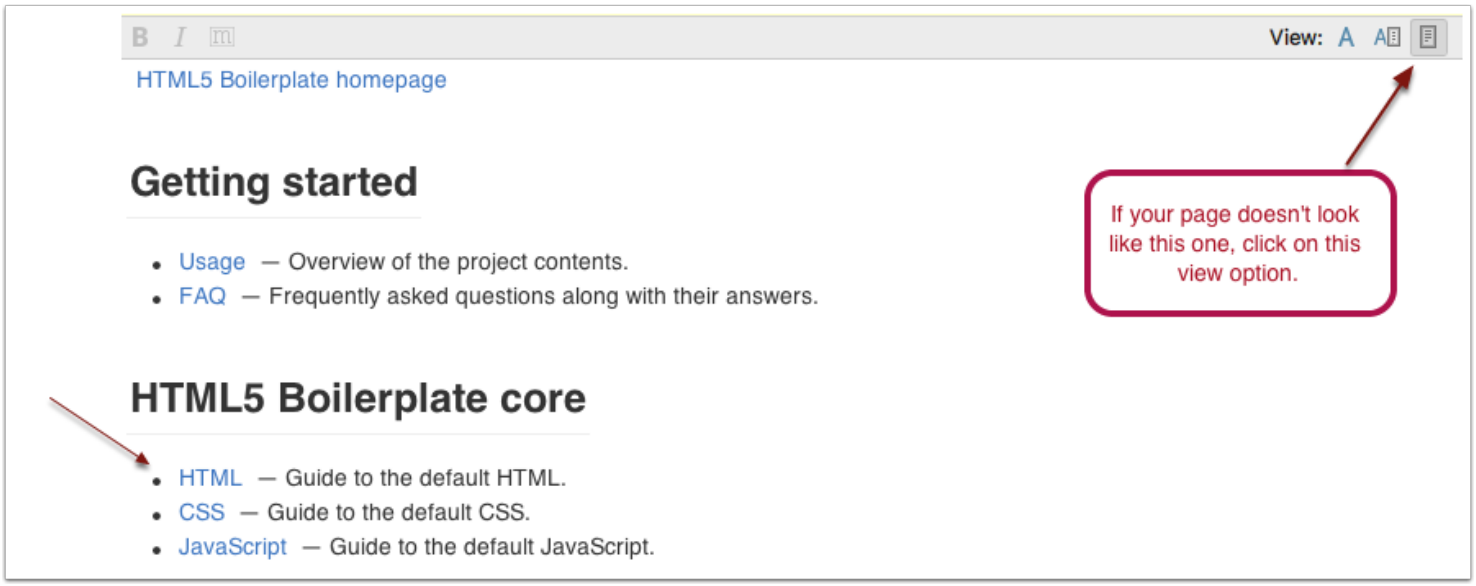
6.6 Close the Event Log Window

Click the Hide icon in the upper right-hand corner of the Event Log Window to hide the window.



6.7 Click on HTML

The table of contents has links to pages explaining the files set up in the project structure.

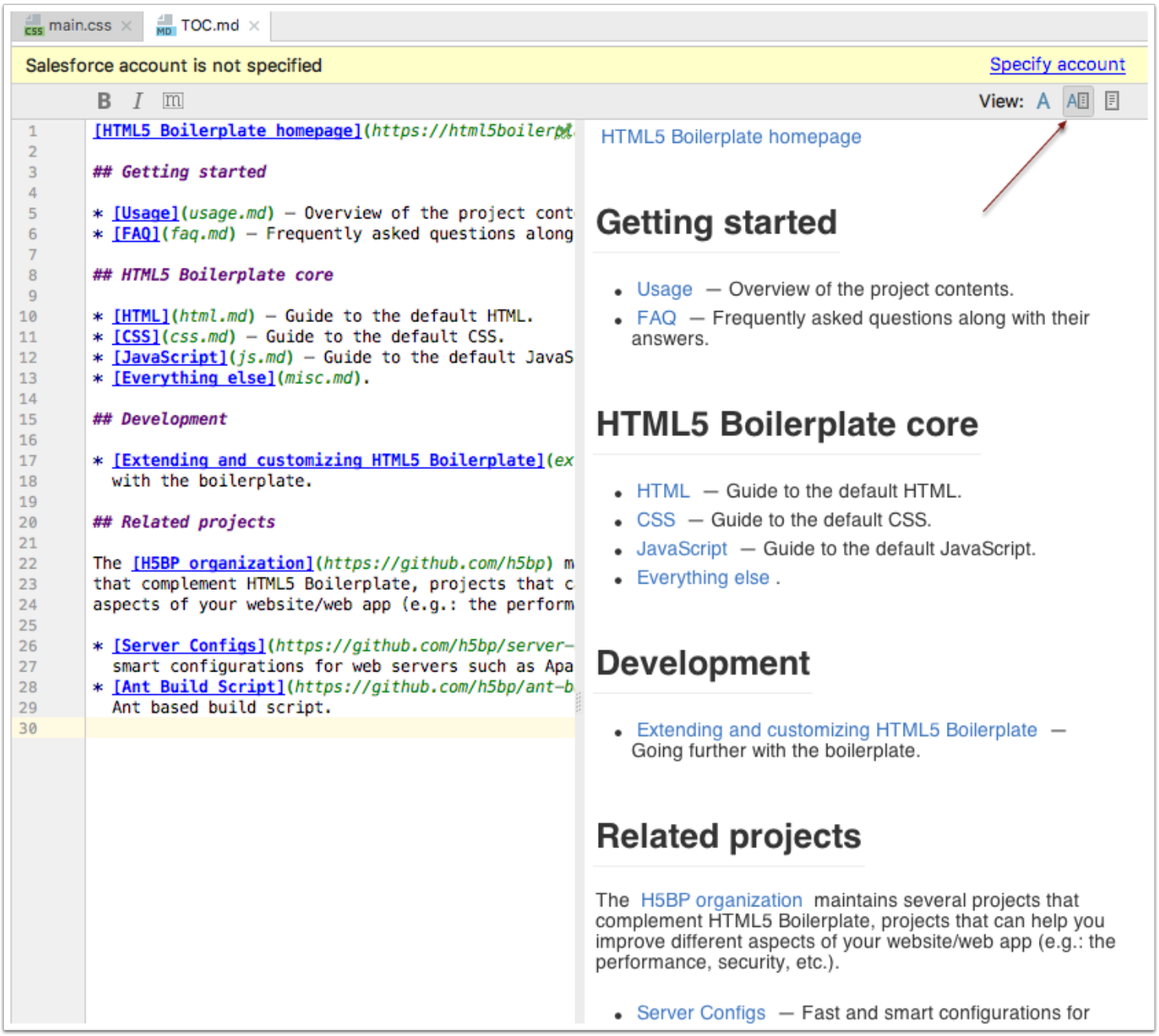


6.8 Open the TOC.md File

.md is a file extension for something called Markdown. It enables developers (like you and me) to create documentation quickly and neatly. Here is the url for Markdown if you would like to learn more.
https://daringfireball.net/projects/markdown/

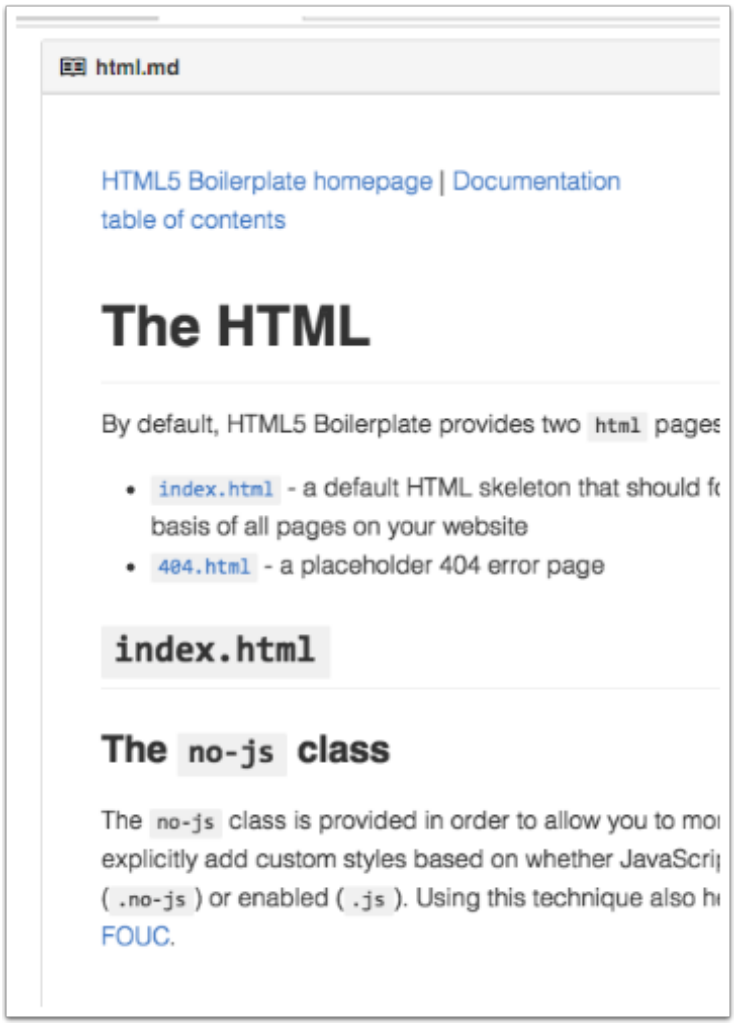
The **TOC.md** file is the table of contents for the HTML5 Boilerplate basic documentation.

Click on the middle view icon to see the .md file side-by-side with the HTML rendered version.

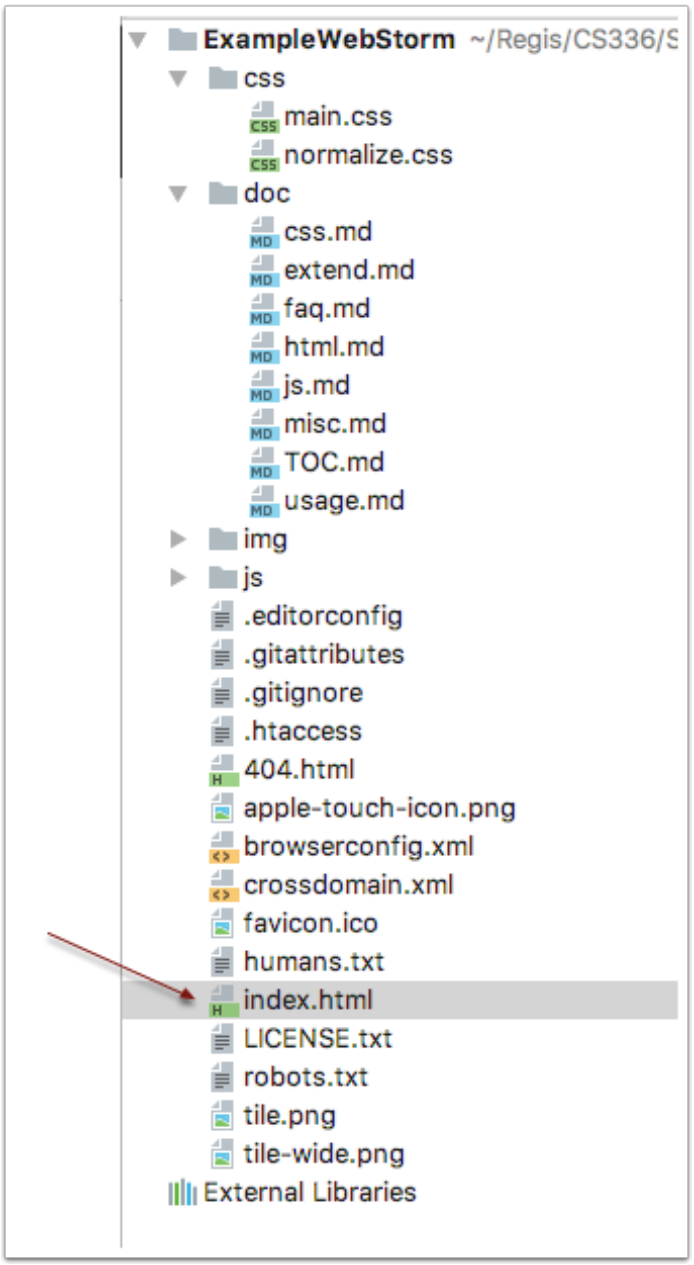

main.css
TOC.md
Salesforce account is not specified
Specify account
View:
[HTML5 Boilerplate homepage](https://html5boilerpl
Getting started
* [Usage](usage.md) — Overview of the project cont
* [FAQ](faq.md) — Frequently asked questions along
HTML5 Boilerplate core
* [HTML](html.md) — Guide to the default HTML.
* [CSS](css.md) — Guide to the default CSS.
* [JavaScript](js.md) — Guide to the default JavaS
* [Everything else](misc.md).
Development
* [Extending and customizing HTML5 Boilerplate](ex
with the boilerplate.
Related projects
The [H5BP organization](https://github.com/h5bp) m
that complement HTML5 Boilerplate, projects that c
aspects of your website/web app (e.g.: the perform
* [Server Configs](https://github.com/h5bp/server-
smart configurations for web servers such as Apa
* [Ant Build Script](https://github.com/h5bp/ant-b
Ant based build script.
HTML5 Boilerplate homepage
Getting started
Usage — Overview of the project contents.
FAQ — Frequently asked questions along with their answers.
HTML5 Boilerplate core
HTML — Guide to the default HTML.
CSS — Guide to the default CSS.
JavaScript — Guide to the default JavaScript.
Everything else .
Development
Extending and customizing HTML5 Boilerplate — Going further with the boilerplate.
Related projects
The H5BP organization maintains several projects that complement HTML5 Boilerplate, projects that can help you improve different aspects of your website/web app (e.g.: the performance, security, etc.).
Server Configs — Fast and smart configurations for

6.9 Skim the Page

This documentation goes through the **index.html** page and explains some of the elements in it. (Not all....the HTML5 basics are covered in the course content.) Don't worry if you don't understand what all the elements do yet.

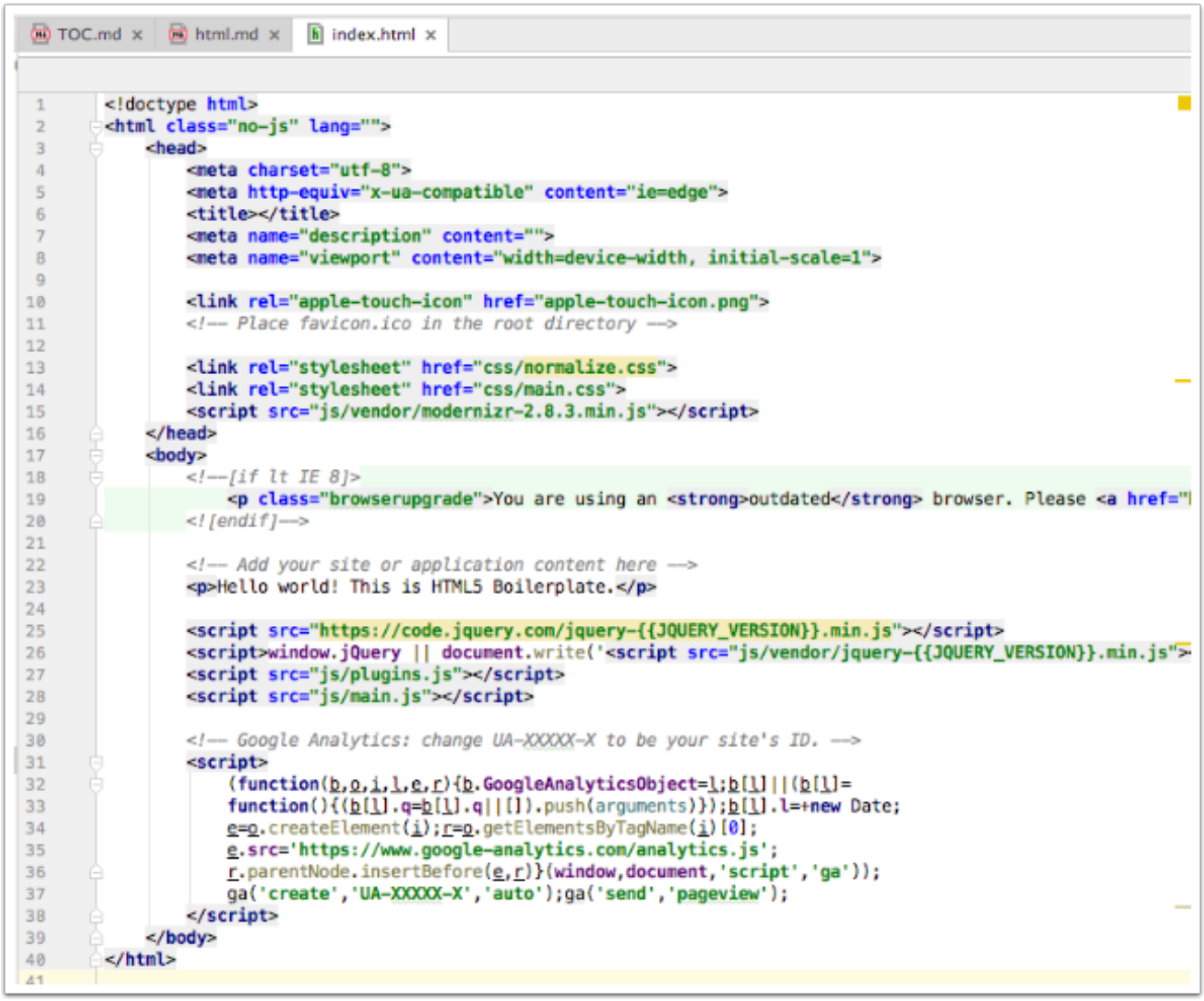


6.10 Open the index.html page



6.11 Scroll through the index.html File

index.html will be the landing page for all your sites. When we start working on the first project, we will delete everything on the page and start from scratch.



6.12 Open the page in a Web Browser

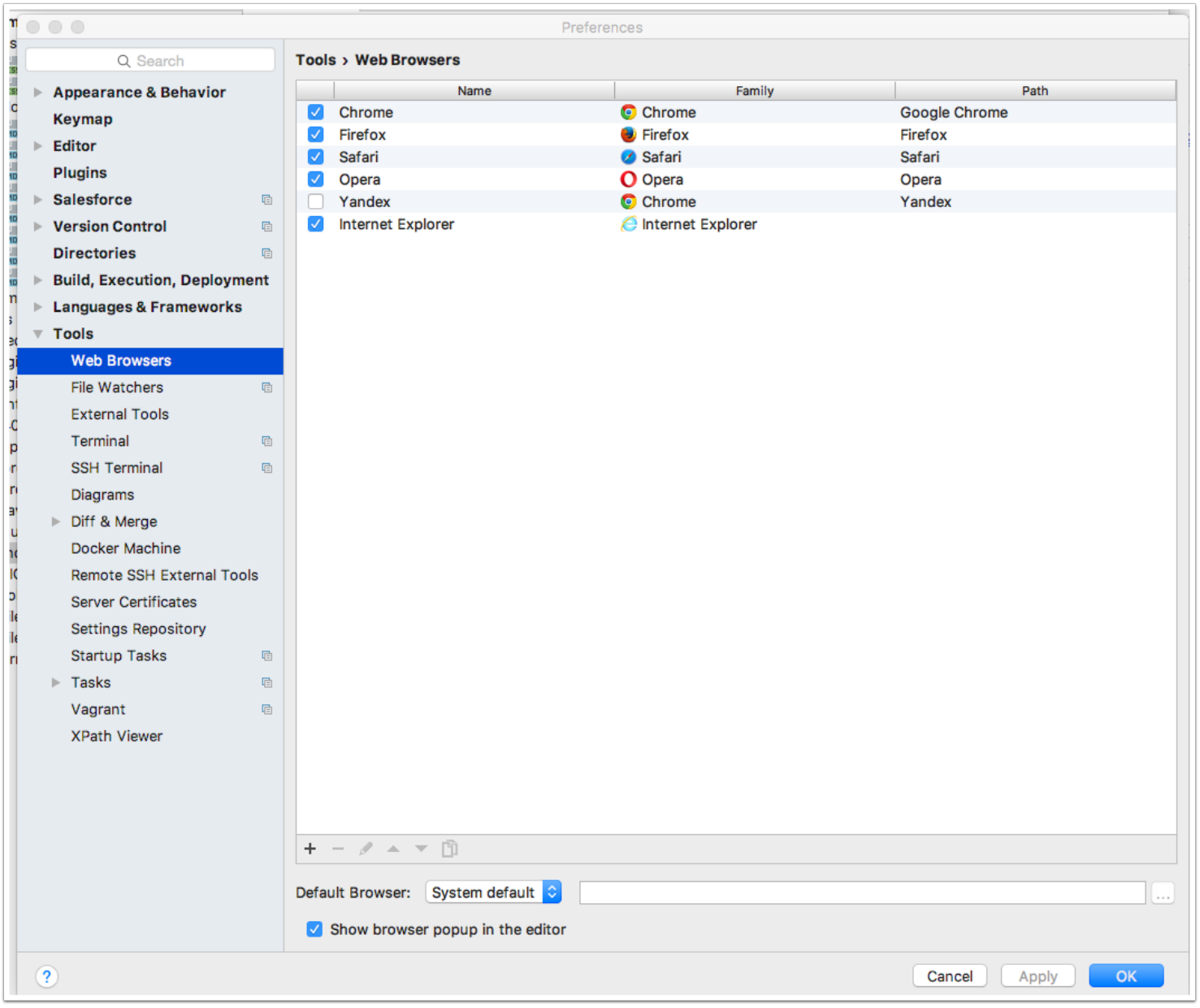
The fastest way to open a page is to click on the icon for the browser you want. If you don't see these icons, move your mouse around on the page a bit. They should appear. Also, which browser icons appear depends on which browsers are installed on your system.

6.13 View the Page

Click on one of the iconsHere is what the page looks like in Chrome.

6.14 Adding a Web Browser

To add an additional web browser, go to WebStorm >> Preferences. Then select Tools >> Web Browsers. You can add as many as you want.



6.15 Expand the img Folder

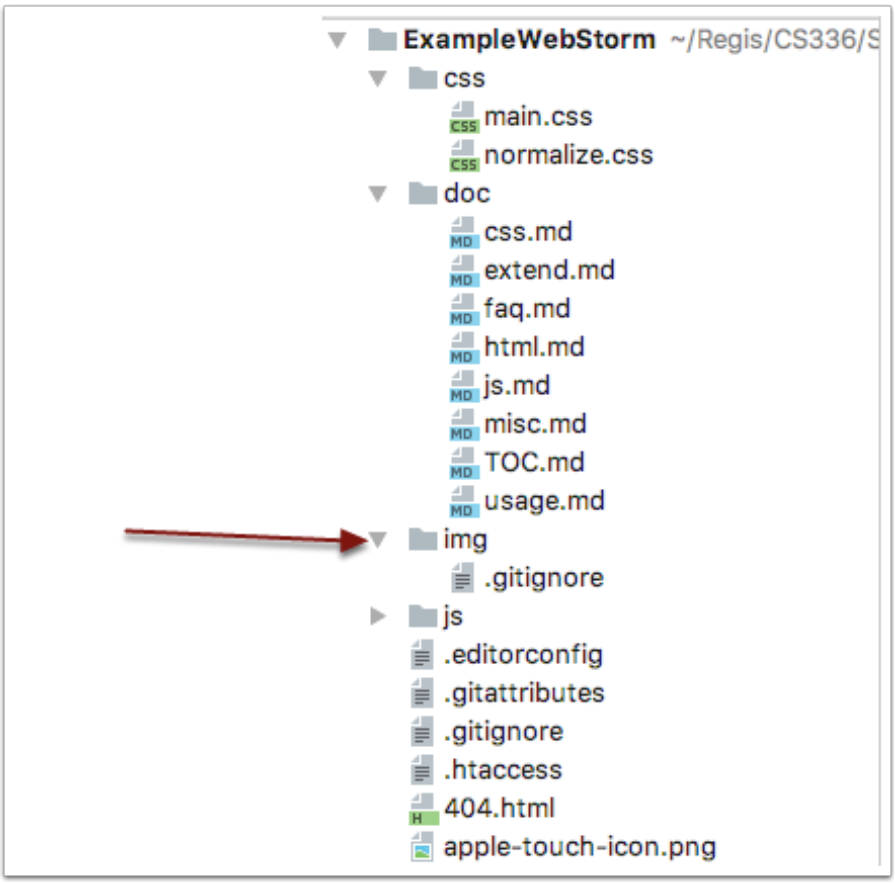
This is where all the images used on your site will be stored. Currently, the img folder contains a .gitignore file. This is used with a plugin for git. Git is a version control package. Most large websites and software packages

evolve. Keeping track of all the code and assests can be a major headache. You find yourself asking, "Did I include the new image in this release? Or the last?" Git enables us to track changes, releases, versions, etc. It is beyond the scope of this course, but if you're interested, visit these two links:

https://git-scm.com/

https://github.com/

For our purposes, you can delete the .gitignore file.

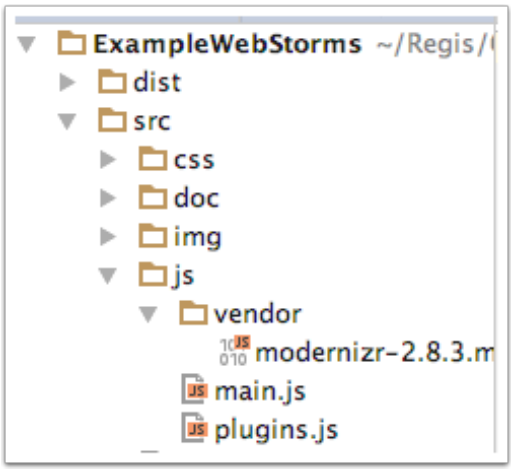


6.16 Expand the js Folder

The JavaScript that you write for your site will be stored in the js folder.

There are almost an infinite number of JavaScript libaries available to add to functionality to your site. Those libaries can be stored in the the vendor folder. Currently, *modernizer* is in the vendor folder. Modernizer is a script that test a user's browser and reports what browser they are using by detecting various features. Here a link to Modernizer. https://modernizr.com/docs/#what-is-modernizr

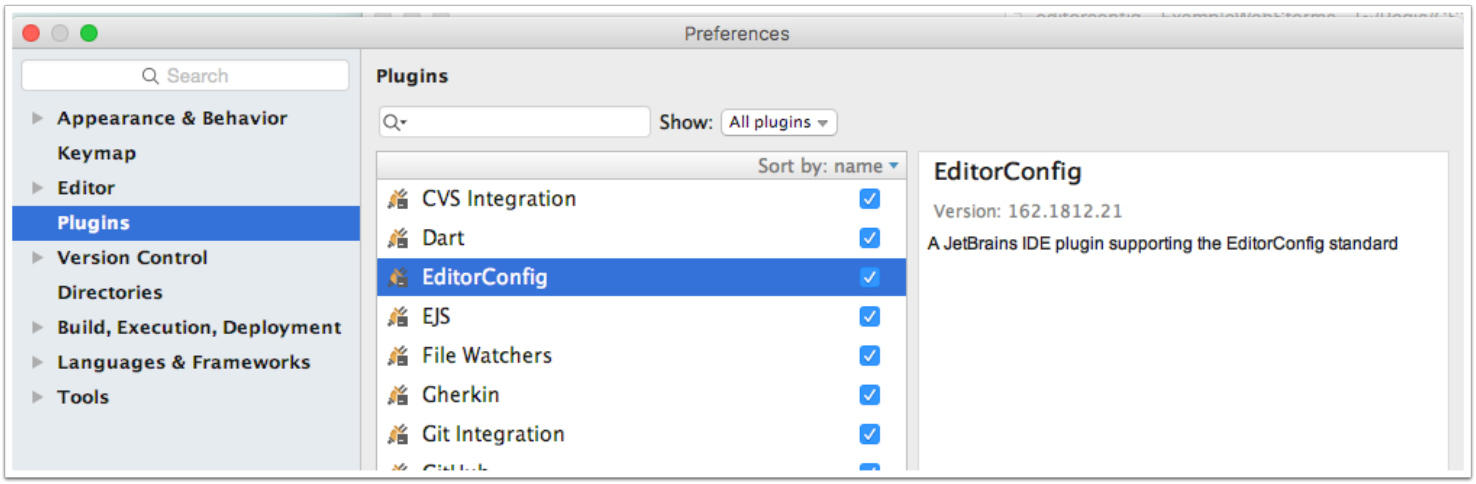
plugins.js is where any 3rd party scripts or jQuery plugins will reside. jQuery alone has thousands of widgits...from things like fade out to adding a calendar to select a date.



6.17 Checking Plugins

WebStorm has over 600 available plugins. To see what is installed in your version or to install others (or remove them), go to your Preferences/Settings panel. Then click on Plugins.

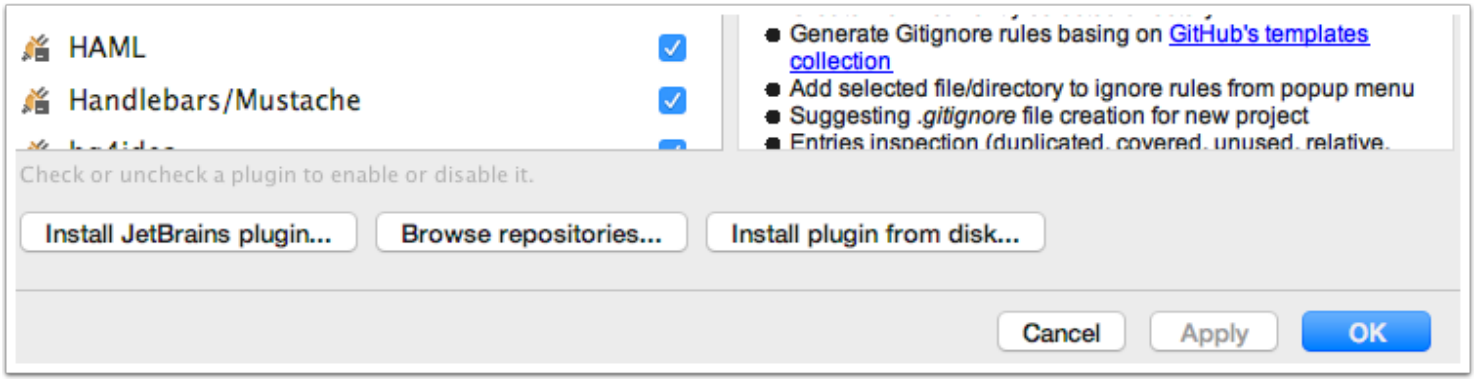
A list of plugins and their current status will be displayed.



6.18 Installing New Plugins

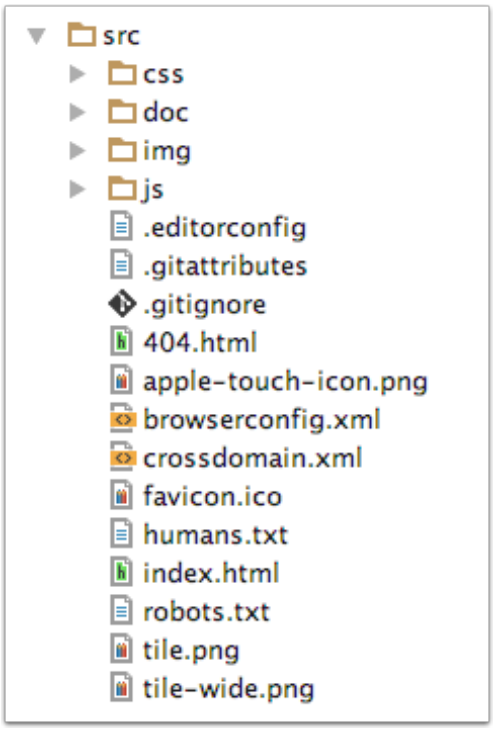
To install a new plugin, use one of the buttons at the bottom of the Preferences/Settings >> Plugins panel and select the plugin you wish to install.

WebStorms will need to be restarted after adding a plugin.



6.19 Miscellaneous Files

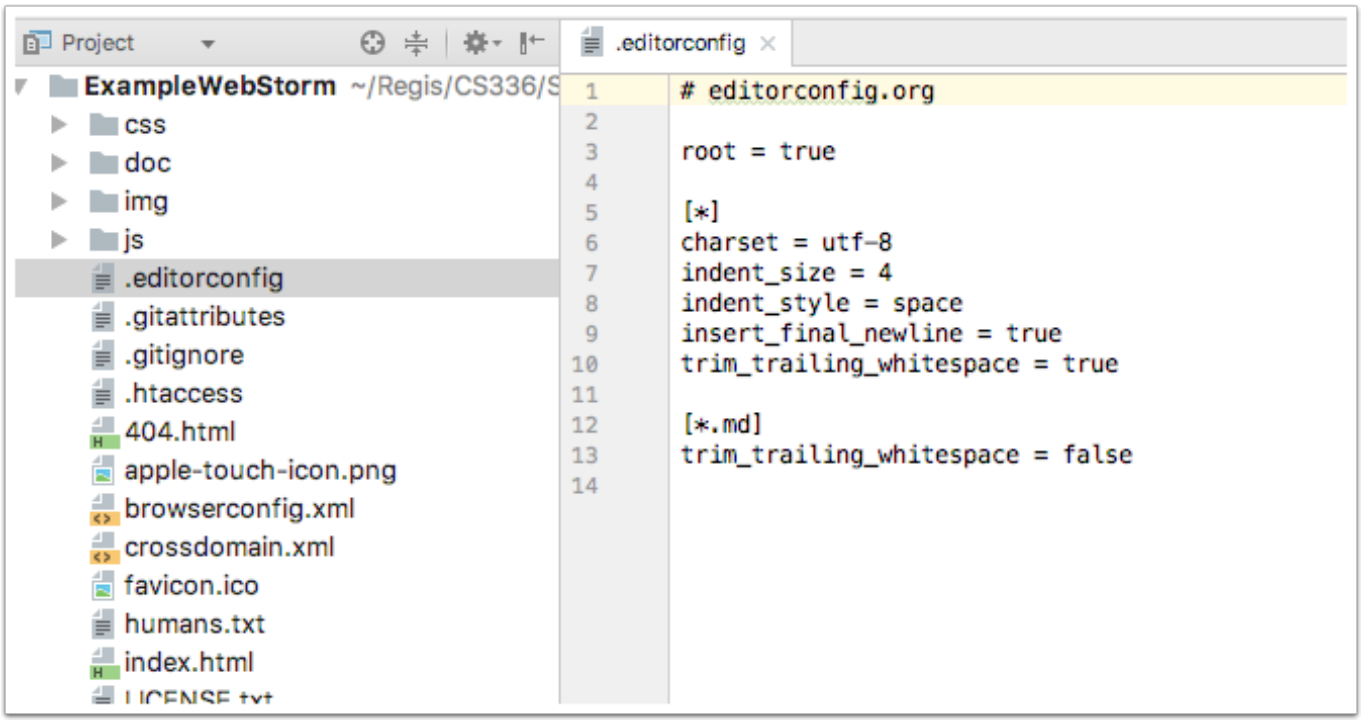
There are several other files in the src directory. Let's look at these one-by-one.



6.20 Open the .editorconfig File

The .**editorconfig** file is included so that if more than one developer is working on a project, a standard set of code styles can be maintained. The file is supported by a large number of IDEs and editors. It can insure that everyone is indenting the same amount and using tabs or spaces for the indent. For more information, visit http://editorconfig.org/#supported-properties

For our projects, it doesn't matter since the assignments aren't group projects. However, if you wil be working on two different machines (e.g.: work and home), you may want to make sure the same editor configuration is used. You will need to install a plugin to use it.



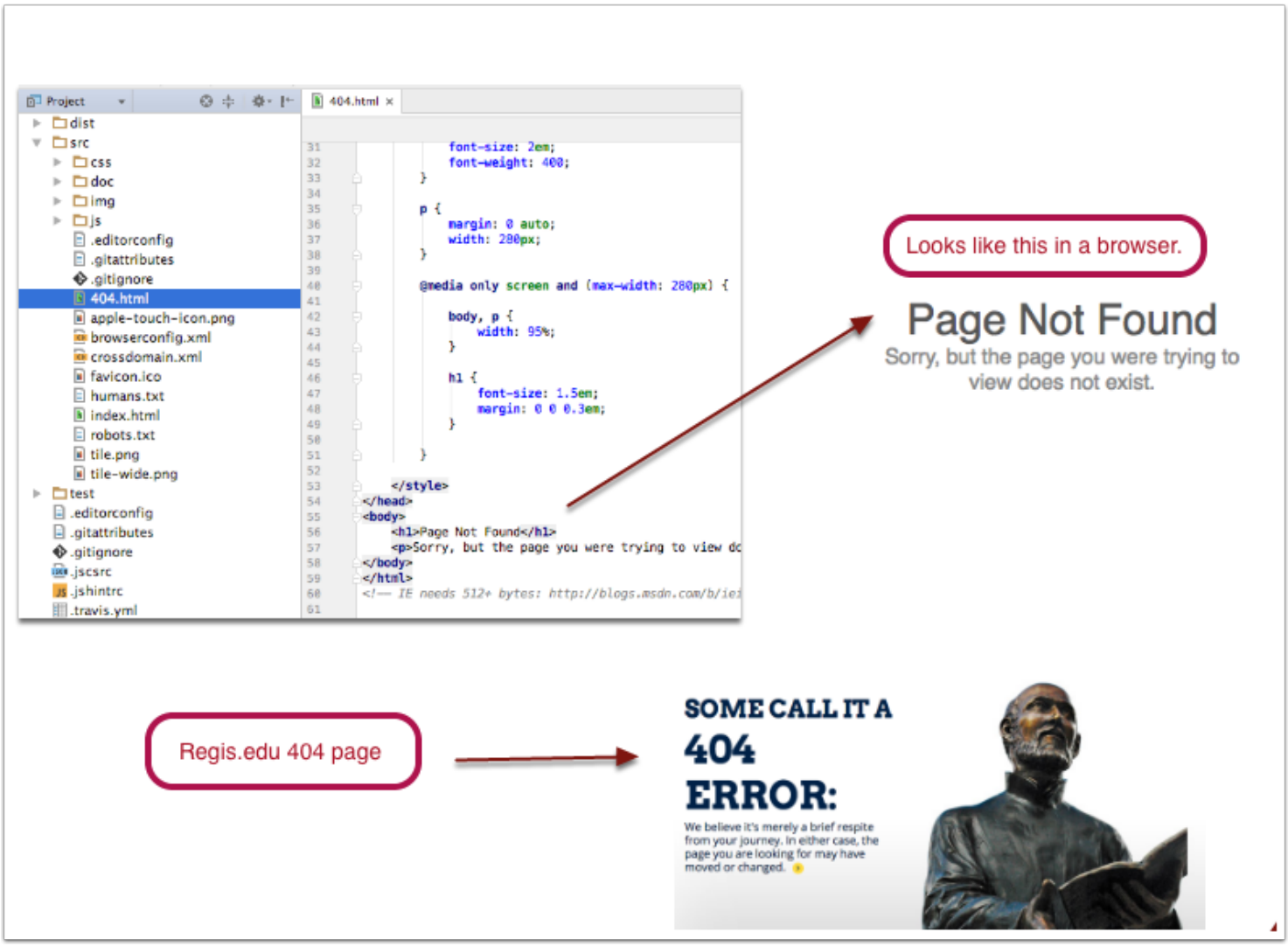
6.21 The .gitignore and .gitattributes files

.**gitignore** and .**gitattributes** both relate to Git version control and can be deleted from you projects. (Unless you are personally using Git.)

6.22 404.html

You know those irritating pages that appear when you type in a url incorrectly? They are colloquially referred to as 404s. Where does the number come from? They are actually HTTP responses. Here is a link to all of them: https://developer.mozilla.org/en-US/docs/Web/HTTP/Status

However, if a url isn't found, a page should be displayed explaining that to the user. Thus, the 404.html page. They can be tailored for each website. The 404 for Regis.edu is shown at the bottom.

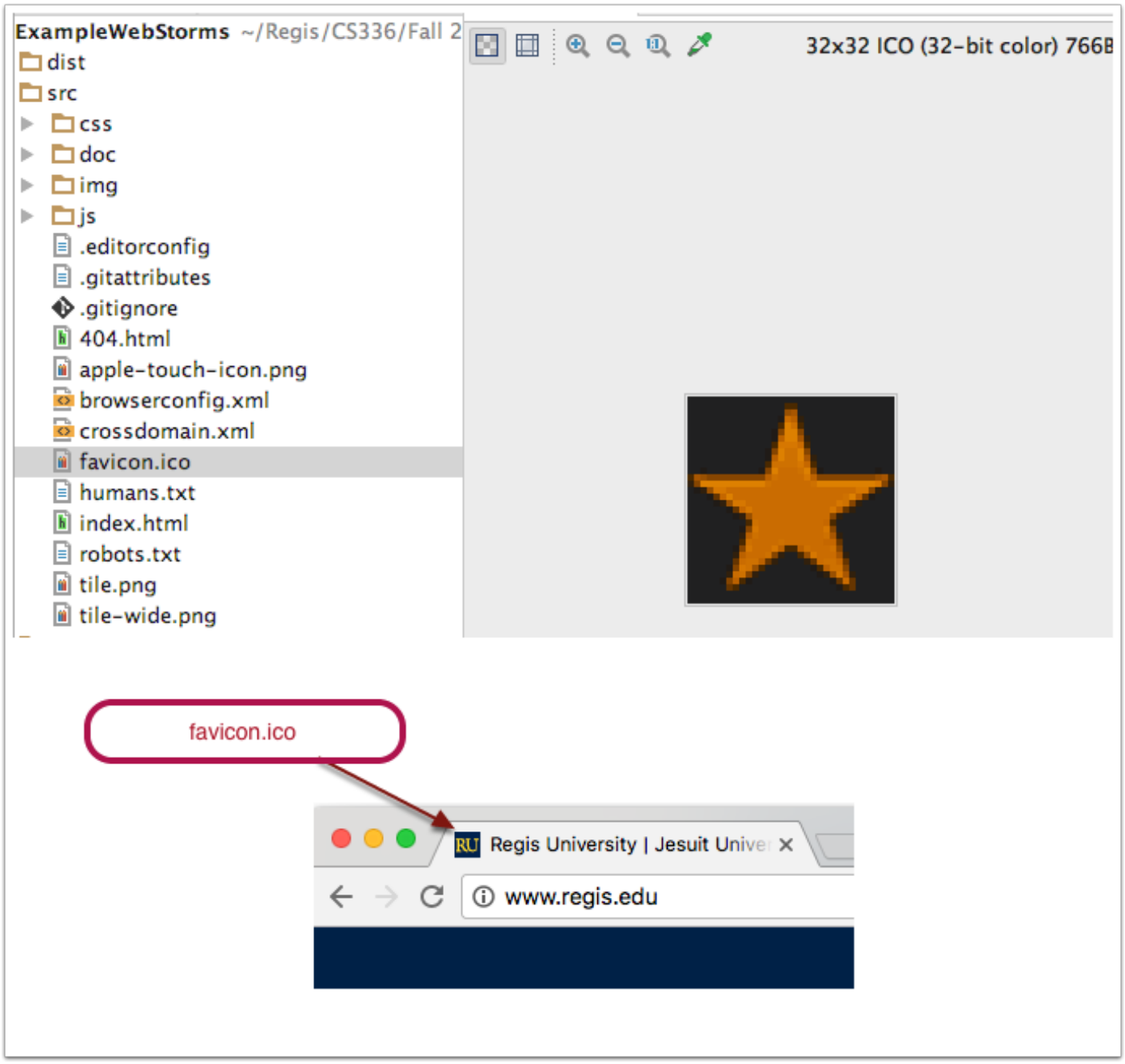

Project
dist
src
css
doc
img
js
.editorconfig
.gitattributes
.gitignore
404.html
apple-touch-icon.png
browserconfig.xml
crossdomain.xml
favicon.ico
humans.txt
index.html
robots.txt
tile.png
tile-wide.png
test
.editorconfig
.gitattributes
.gitignore
.jscsrc
.jshintrc
.travis.yml
404.html
font-size: 2em;
font-weight: 400;
p {
margin: 0 auto;
width: 280px;
@media only screen and (max-width: 280px) {
body, p {
width: 95%;
h1 {
font-size: 1.5em;
margin: 0 0 0.3em;
</style>
</head>
<body>
<h1>Page Not Found</h1>
<p>Sorry, but the page you were trying to view do
</body>
</html>
<!-- IE needs 512+ bytes: http://blogs.msdn.com/b/ie
Looks like this in a browser.
Page Not Found
Sorry, but the page you were trying to view does not exist.
Regis.edu 404 page
SOME CALL IT A
404
ERROR:
We believe it's merely a brief respite from your journey. In either case, the page you are looking for may have moved or changed.

6.23 crossdomain.xml

This file enables the user's browser (local client) to handle data from multiple domains. We will talk about cross-site scripting in this course. It is a real security issue.

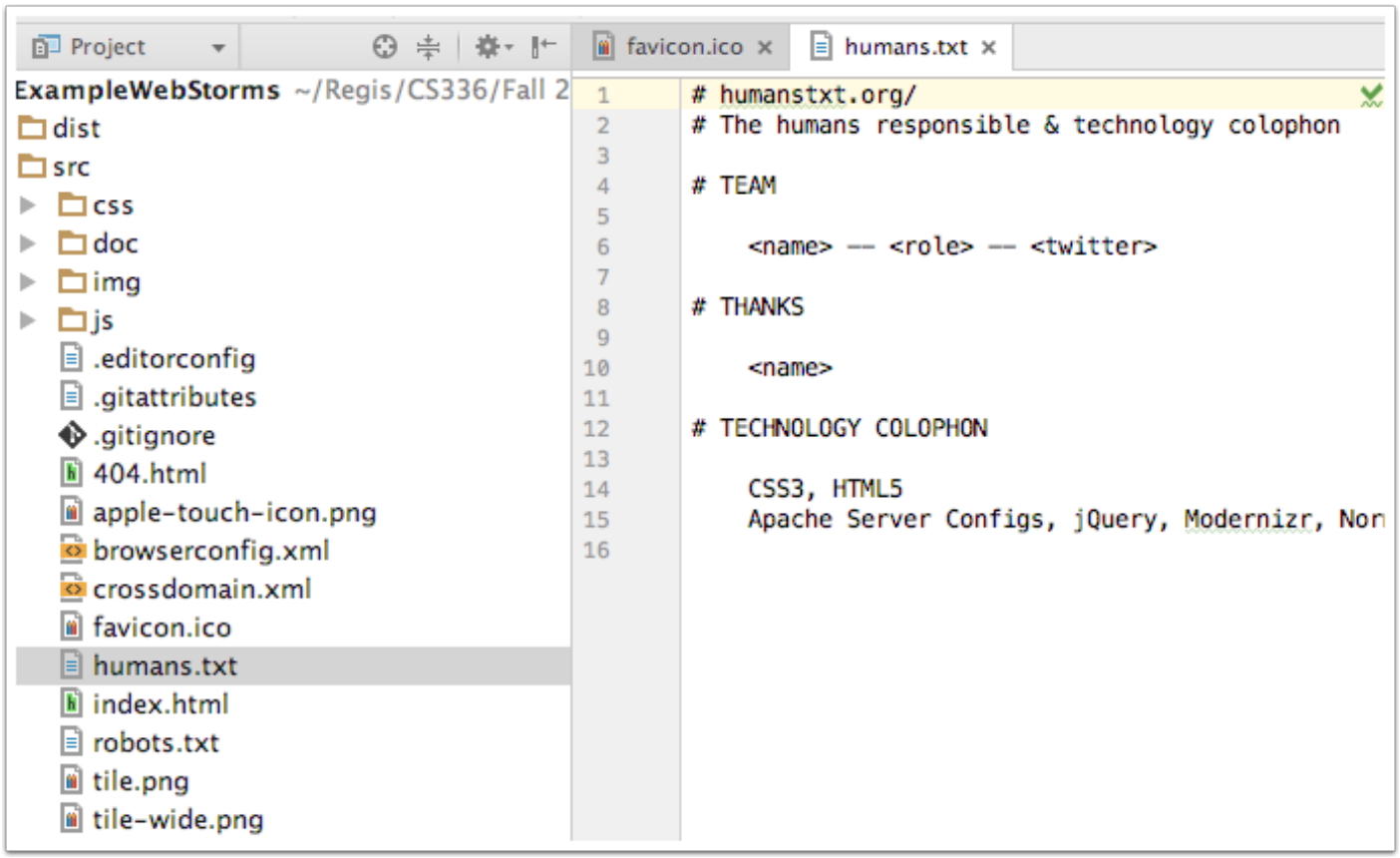
6.24 favicon.ico

When you load a page in a browser, a small graphic appears on the tab or in the address line. That graphic is called a **favicon.ico**. For the Regis site, its the Regis "R" and "U" logo. If you are interested in creating a favicon.ico, here is where you can find more information and actually create one. http://www.favicon.cc/ After you create it, it is stored as the favicon.ico file on the site.



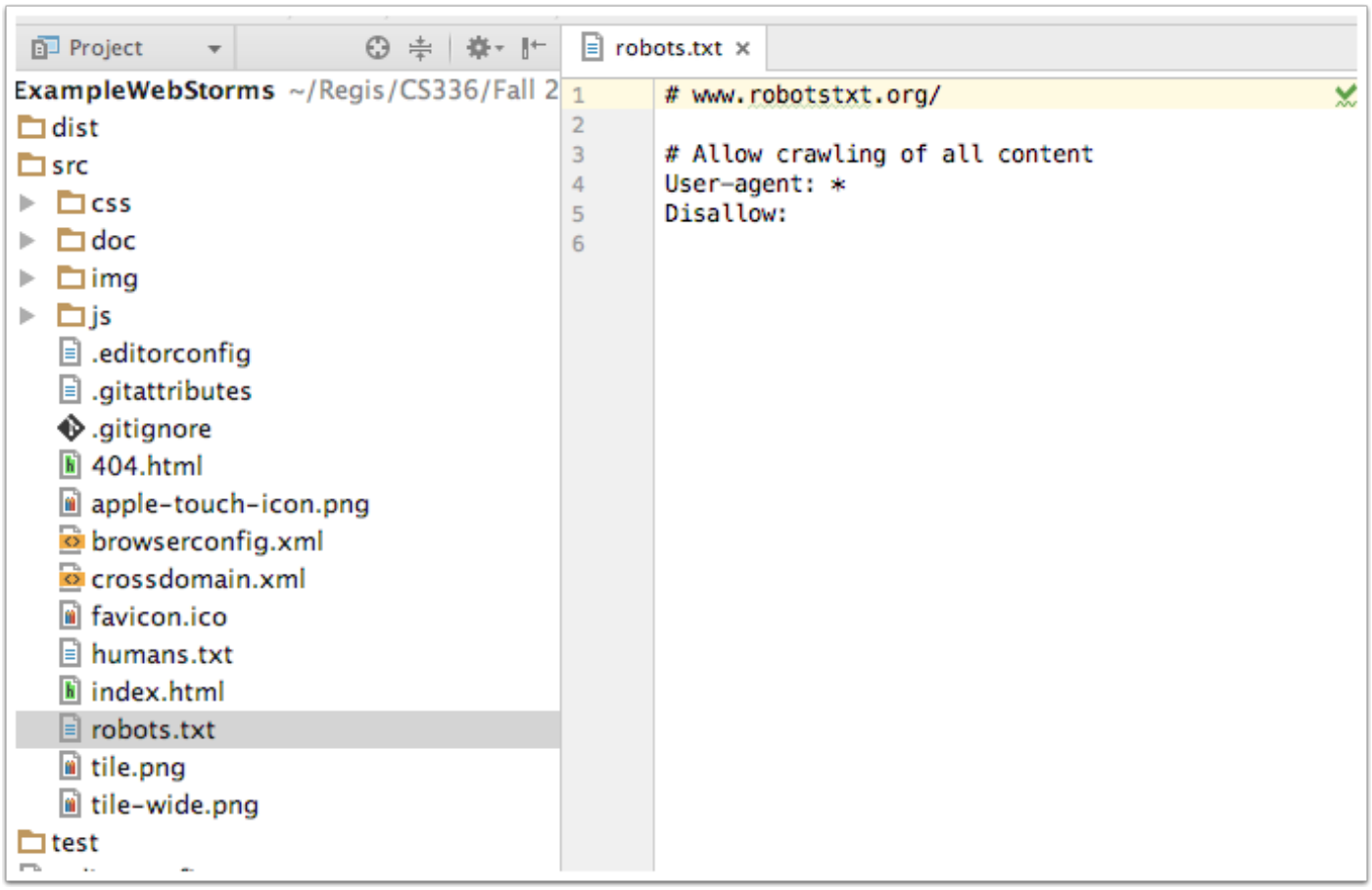
6.25 humans.txt

Who worked on the site and technology? Who contributed? Who do you need to thank? The **humans.txt** file is where that information goes.



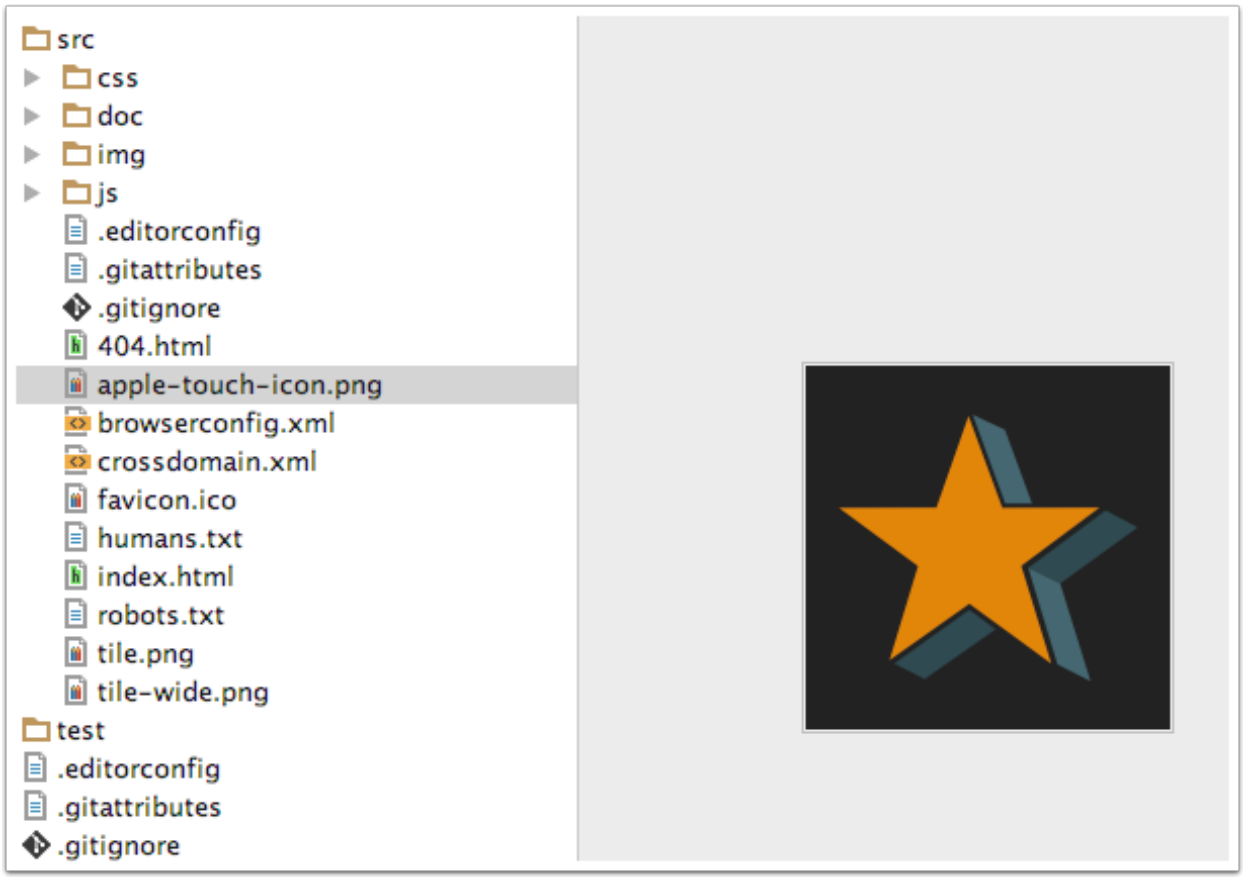
6.26 robots.txt

Programs that wonder around the web are referred to as 'bots or spiders. For example, search engines use them for discovering and indexing sites . So, to control what the program sees on your site, you can add a **robots.txt** file with instructions in it. For further information, visit http://www.robotstxt.org/



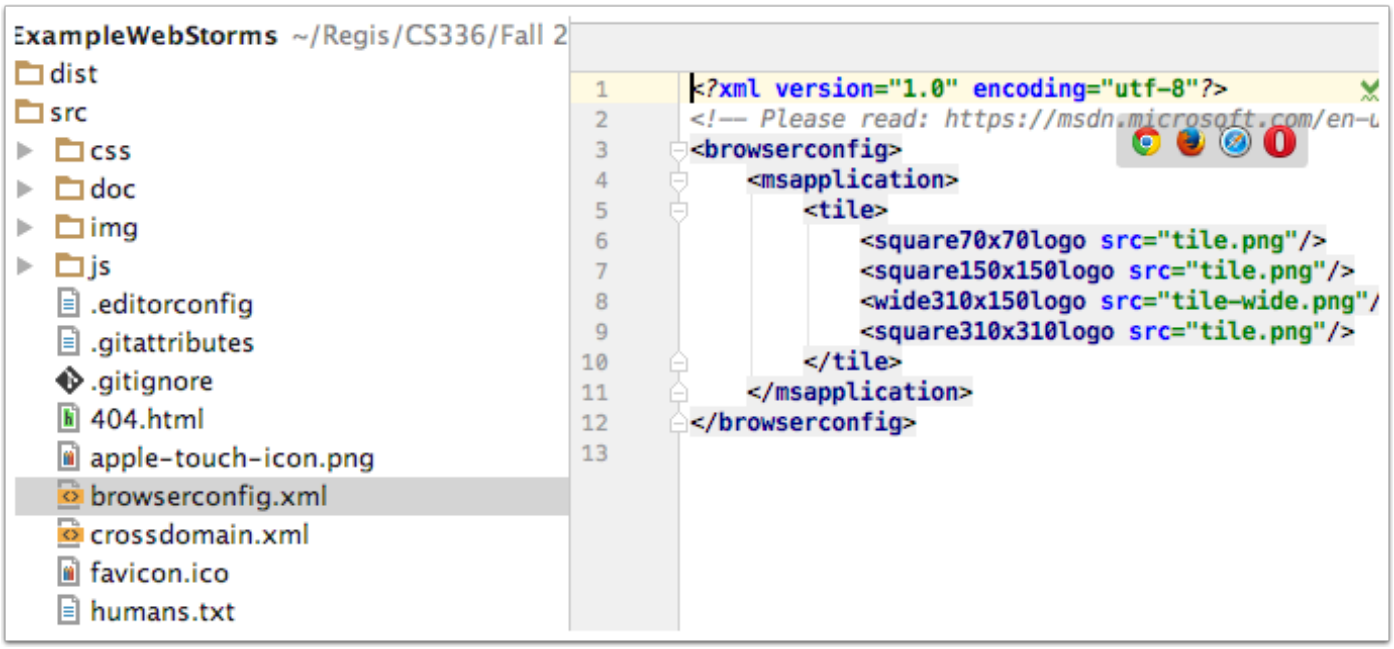
6.27 Apple Touch Icon

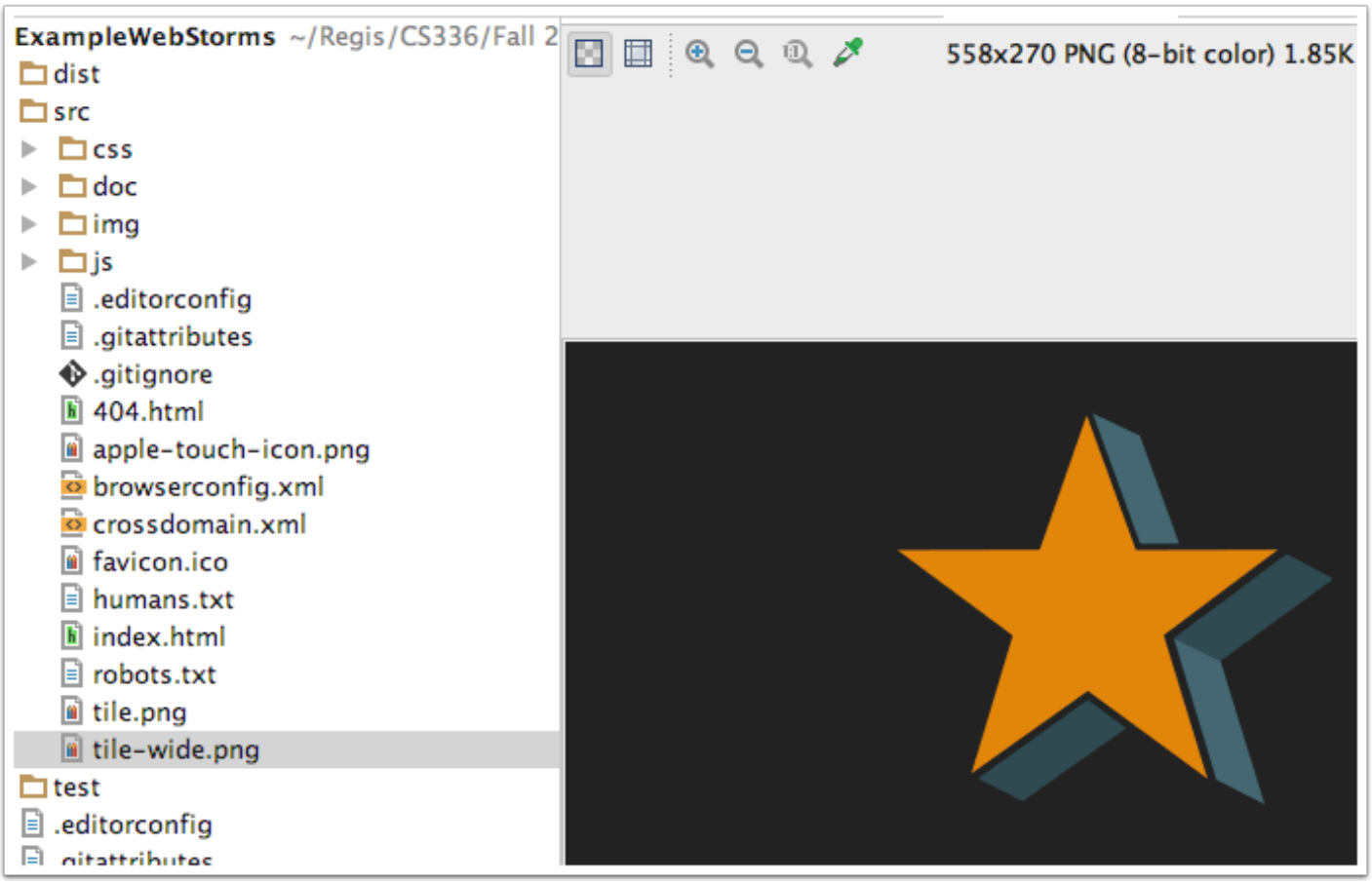
On our mobile phones, we have little icons for each app. If you save a browser page to the home page, you'll see the apple-touch-icon. For more information on how to create these, visit: https://realfavicongenerator.net/blog/apple-touch-icon-the-good-the-bad-the-ugly/



6.28 browserconfig.xml

This is used with the tile files to display touch icons on Microsoft phones and in Windows.



6.29 tile-wide.png and tile-wide.png

These files are used by windows. Like the apple-touch-icon, tiles are found on the windows phone start up screen. They are different from the apple/android icons because they can be resized.