

GoCode Prework Week 3

The tutorials below will help you get a basic proficiency with HTML, CSS, and optionally Javascript. Finally, we also ask for a little info from you! This is one of the longer pre-work weeks, so get started soon!

There are 4 sections total. You should continue working on this in weeks 3-4 if you can't finish it all this week.

1) Intro Bio and Photo (1 hour)

We'd like to introduce the team to everyone before you arrive on the ground. Please draft up a 100-200 word bio, and highlight one fun fact about yourself. Attach a photo/headshot and send it to jeremy@gocodenow.com by March 1st. We will compile these, send it out to you guys and add it to our web app (unless you prefer to be anonymous).

2) Internet Basics (1 hr)

Resources:

- [How the Internet Works in 5 minutes](#)
- [Tech Terms Glossary](#)

Assess yourself:

- Explain to a family member what happens when you type www.google.com into your browser and hit enter
- Define the following terms
 - Client
 - Server
 - Browser
 - IP Address
 - DNS
 - Front End/Back End

3) HTML/CSS (10-15 hours)

We want you to know HTML and CSS before you start the course. It's one of the biggest things that slows students down when we get into advanced web stuff. You should at least know the basics. A lot of you are already very comfortable with HTML/CSS - if you find this section too simple, move on to the next section about Javascript/Jquery.

Resources:

- [Codecademy Web Track](#) Walks you through the fundamentals of HTML and CSS by example.
- [Mozilla HTML Introduction](#) A quick introduction to HTML structure. Read through this to get a clearer idea of how HTML works.
- [Treehouse HTML CSS](#) - We've secured a [2 week free trial](#) for you - Signup, then dig in with some more advanced CSS concepts through the [CSS Beyond the Basics Course](#).

Assess yourself:

- Create a basic HTML template structure and check what this looks like in the browser by opening your .html file.
- Add some content to your page using some basic tags (like div, h1, h2, p, ul, etc)
- Add a few hyperlinks to other pages.
- Link a stylesheet (CSS) to your HTML page.
- Add some basic styling to your page (like different fonts, different colored text, different types of borders around your text, different background images, etc)
- Open in the browser to see what it looks like

Challenge Project: Recreate the layout and color scheme of <https://news.ycombinator.com/> in HTML/CSS. Consider using [Twitter Bootstrap 3](#) - which we will use in the course.

4) Javascript/Jquery (10-15 hours, optional)

Once you are comfortable with the above HTML/CSS basics, then you should get started on JS and Jquery. These languages will help you add some animations to your basic webpage.

Resources:

- [Codecademy](#) JS Walks you through the fundamentals of JS by example.

- [Mozilla JS Introduction](#) A quick introduction to the javascript language. Read through this to get a clearer idea of how HTML works.
- [Treehouse HTML CSS](#) - We've secured a [2 week free trial](#) for you - Signup, then dig in with some more JS and JQuery concepts through the [Javascript Foundations](#) and [JQuery Basics](#) Courses.
- If the above is not challenging enough, then work through the rest of the intermediate-advanced JS/Jquery courses on Treehouse.

Assess yourself:

- Explain how basic variables work in Javascript including the difference between null and undefined.
- Create a Javascript function that takes in an integer variable and returns a the variable multiplied by 3.
- Go into the console on a browser and using jquery select an h1 tag and return the string.
- Remove an HTML element from a webpage in the browser console using jquery
- Using jquery 'onclick', change the value of another element 'onclick'