# Introduction to Javascript

All the code examples may be found on the [codepin website](http://codepen.io/collection/nLPkgP/)

Concept of bind() read more at the following [link](https://passy.svbtle.com/partial-application-in-javascript-using-bind)

Required Materials

Textbook - It is really difficult to find a textbook that focuses on just the basics. In the past I used a textbook that covered too many "extras". The new version of this course (and the entire specialization) will be using an online resource from Shay Howe. The link is [https://learn.shayhowe.com/html-css/.](https://learn.shayhowe.com/html-css/) You can also purchase a paper copy of the book if you prefer, but everything you need is free and online.

While you are reading, make sure to look closely for code. This site uses CodePen - a tool that lets you see the code and the output. Clicking on the code will also take you to the CodePen site where you can try changing the code to see what happen.

**SOFTWARE**:

The **preferred** way to code in this class is editor software (Notepad, TextWrangler, Sublime, etc). Recently I have been using Visual Studio Code and I really like it. The software is free and works on most types of computers.

If you do not have the ability to access or install this type of software, there is an online editor at: <http://www.w3schools.com/html/tryit.asp?filename=tryhtml_intro>

Try online editor:

<https://codepen.io/>

<https://html-online.com/editor/>

<https://htmledit.squarefree.com/>

Resources:

[Regular Expressions link](http://html5pattern.com/)

Using Forms on Your Site

As I mentioned earlier, the forms we are making right now are a great way to work with JavaScript, but you wouldn't want to put these forms on your page since you don't know how to deal with the information that people may send. Luckily, now that you know a little about forms you are in a great place to utilize free form builders. Many people already use Google Forms to create online forms. Another great place that I would recommend is WUFOO <http://www.wufoo.com/>. This site is highly recommended for deploying forms.

Quizzes and other course material available @ <https://wd4e.com/>

Validating code <https://validator.w3.org/>

Go to <http://wave.webaim.org/> and enter the URL of a website of your choice. Then select the "No Styles" option. How much harder is it to perceive the contents of the page when you just have the HTML?

There are many other aspects to the HTML5 document outline algorithm. Extensive information on these is available on W3C.

In the Week One material you may or may not have run the test at <https://html5test.com/> to see how well your browser supports HTML5. But you should also find out if that HTML5 is easily usable by people who rely on assistive technology without having to use special work arounds. The site <http://html5accessibility.com/> tests which HTML5 features are accessibly supported by major browsers. This includes if they are keyboard accessible and if any accessibility related features are supported.

[http://wave.webaim.org](http://wave.webaim.org/) web accessibility evaluation tool

<https://learn.shayhowe.com/html-css/>

<https://www.w3schools.com/css/css_examples.asp>

<https://fontawesome.com/start>

<http://www.csszengarden.com/> see sample css applied to html doc

If you are looking for even more hands-on practice many people use the [Codecademy](https://www.codecademy.com/" \t "_blank) website

<https://www.techradar.com/news/the-best-web-browser>

You can check to see if the browser that you are using supports most of the HTML5 tags by going to <http://html5test.com/index.html>.

<https://caniuse.com/#search=column-count>

All html5 tags and more <https://www.wpkube.com/html5-cheat-sheet/>

If you want to learn more about creating good alt text, I recommend the W3 alt decision tree site as a resource: <https://www.w3.org/WAI/tutorials/images/decision-tree/> This site guides you with simple "yes/no" questions on how to create your alt text.

view unique character set(s) (e.g., ☃)<https://www.copypastecharacter.com/all-characters>

week 3 codepin - <https://codepen.io/collection/XGowWM/2/>

week 4 codepin - <https://codepen.io/collection/AOLapY/>

Additional Reading:

OPTIONAL - Validation Article

I came across this article, and while it is a bit older, I think it speaks to a number of issues students have with the validator. What do you think?

<https://www.cs.tut.fi/~jkorpela/html/validation.html>

<https://www.creativebloq.com/inspiration/css-animation-examples>

Optional Readings:

1. [CSS3 Transitions](http://www.w3schools.com/css/css3_transitions.asp) - from W3 Schools
2. [Transitions and Animations](http://learn.shayhowe.com/advanced-html-css/transitions-animations/) - Shay Howe
3. [CSS: Animation Using CSS Transforms](http://www.the-art-of-web.com/css/css-animation/)
4. [22 stunning examples of CSS3 animation](http://www.creativebloq.com/css3/animation-with-css3-712437)

### Some Fun Links - Optional

1. [18 Cool Things You Won’t Believe Were Built Using CSS](http://www.hongkiat.com/blog/built-with-css/)
2. [12 Awesome CSS3 Features That You Can Finally Start Using](http://tutorialzine.com/2013/10/12-awesome-css3-features-you-can-finally-use/)