

# Syllabus for Fundamentals of Website Development

**Notebook:** tonvbuendia's notebook

**Created:** 1/16/2017 10:52 PM

**Updated:** 1/25/2017 1:18 AM

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## Course Syllabus & Information Fundamentals of Website Development Datastrong

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**\*Last updated: 01-15-2017**

### Learning objective for the course:

At the end of the course, students will be able to plan, design, and implement a web site using current standards and best practices. We will learn HTML5, CSS, and Javascript using the latest tools.

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## Prerequisites/Housekeeping

1. Please obtain a Github account (free).
  - <https://github.com/>
  - ◊ Email me your Github username.
    - [anthony.buendia@datastrong.com](mailto:anthony.buendia@datastrong.com)
  - ◊ What the hell is Github?
    - <http://www.howtogeek.com/180167/htg-explains-what-is-github-and-what-do-geeks-use-it-for/>
  - ◊ Why do we need it?
    - We will be using the Issue Tracking System in Github to track questions, answers, and discussions. This will provide us a forum for online communication. After a few weeks I will start posting code. After a few months, you will be posting code in Github.
  - ◊ Please book time spent on this class in Replicon. This will help us measure overall effectiveness of the program.
    - Datastrong Internal --> Continuing Education Contest

## Module 1

## 1. HTML5 & CSS3 Fundamentals: Development for Absolute Beginners

- ◊ Course Link:
  - [https://mva.microsoft.com/en-us/training-courses/html5-css3-fundamentals-development-for-absolute-beginners-14207?l=wH3lBzX6C\\_1705244527](https://mva.microsoft.com/en-us/training-courses/html5-css3-fundamentals-development-for-absolute-beginners-14207?l=wH3lBzX6C_1705244527)
- ◊ Chapter 1: Series Introduction (10 minutes..a little boring, but gives you a relatively quick overview)
  - Note the Source Code for the this course is found here in Chapter 1. Please download it.
- ◊ Chapter 2: Creating Your First HTML5 Webpage.
- ◊ Chapter 3: Styling Your First HTML5 Webpage with CSS3

\*\*The key to learning HTML, CSS, other programming languages initially is to emulate what you are seeing. The Source Code will give you the starting point. As the video is making changes, you should be making those changes as well and confirming that the output matches.

## 2. JavaScript Tools of the Trade: JSBin

- ◊ Course Link:
  - <https://code.tutsplus.com/tutorials/javascript-tools-of-the-trade-jsbin--net-36843>
- ◊ Instructions: Please read/interact with the first two paragraphs of this tutorial (The Case of JSBin and Getting to Know JSBin).
- ◊ Why JSBin?

Essentially, JS Bin exists for two main reasons: a) creating test and debug cases, and collaboratively debugging those cases, and b) **to teach and learn from**. JS Bin is a collaborative JavaScript debugging tool. It allows you to edit and test JavaScript and HTML (reloading the URL also maintains the state of your code). Once you're happy you can save, and send the URL to a peer for review or help. They can then make further changes saving anew if required.

Simply, JSBin is a great tool for LEARNING and SHARING.

## Module 2 - HTML

1) Do the Following Exercises. Note, there is a "Show Answer" button with all these exercises. If you use that, you might as well skip this whole module.

I would recommend you copy and paste the question into jsbin

And then work the answer in jsbin. That way you are not tempted to look at the answer. When you get a correct answer, please take a screen shot of the code. When done with all the exercises, zip up the folder with the screen shots and send it to me. Thank you.

What resources should I use to answer these questions? Google.

[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_attributes1](http://www.w3schools.com/html/exercise.asp?filename=exercise_attributes1)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_attributes2](http://www.w3schools.com/html/exercise.asp?filename=exercise_attributes2)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_attributes3](http://www.w3schools.com/html/exercise.asp?filename=exercise_attributes3)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_attributes5](http://www.w3schools.com/html/exercise.asp?filename=exercise_attributes5)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_headings1](http://www.w3schools.com/html/exercise.asp?filename=exercise_headings1)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_headings4](http://www.w3schools.com/html/exercise.asp?filename=exercise_headings4)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_paragraphs3](http://www.w3schools.com/html/exercise.asp?filename=exercise_paragraphs3)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_styles1](http://www.w3schools.com/html/exercise.asp?filename=exercise_styles1)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_styles3](http://www.w3schools.com/html/exercise.asp?filename=exercise_styles3)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_styles6](http://www.w3schools.com/html/exercise.asp?filename=exercise_styles6)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_formatting3](http://www.w3schools.com/html/exercise.asp?filename=exercise_formatting3)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_css2](http://www.w3schools.com/html/exercise.asp?filename=exercise_css2)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_css4](http://www.w3schools.com/html/exercise.asp?filename=exercise_css4)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_css5](http://www.w3schools.com/html/exercise.asp?filename=exercise_css5)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_links2](http://www.w3schools.com/html/exercise.asp?filename=exercise_links2)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_links4](http://www.w3schools.com/html/exercise.asp?filename=exercise_links4)  
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[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_images3](http://www.w3schools.com/html/exercise.asp?filename=exercise_images3)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_images4](http://www.w3schools.com/html/exercise.asp?filename=exercise_images4)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_images6](http://www.w3schools.com/html/exercise.asp?filename=exercise_images6)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_tables3](http://www.w3schools.com/html/exercise.asp?filename=exercise_tables3)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_tables5](http://www.w3schools.com/html/exercise.asp?filename=exercise_tables5)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_lists2](http://www.w3schools.com/html/exercise.asp?filename=exercise_lists2)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_lists6](http://www.w3schools.com/html/exercise.asp?filename=exercise_lists6)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_classes1](http://www.w3schools.com/html/exercise.asp?filename=exercise_classes1)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_classes2](http://www.w3schools.com/html/exercise.asp?filename=exercise_classes2)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_iframe1](http://www.w3schools.com/html/exercise.asp?filename=exercise_iframe1)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_iframe2](http://www.w3schools.com/html/exercise.asp?filename=exercise_iframe2)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_iframe3](http://www.w3schools.com/html/exercise.asp?filename=exercise_iframe3)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_iframe4](http://www.w3schools.com/html/exercise.asp?filename=exercise_iframe4)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_scripts4](http://www.w3schools.com/html/exercise.asp?filename=exercise_scripts4)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_forms1](http://www.w3schools.com/html/exercise.asp?filename=exercise_forms1)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_forms2](http://www.w3schools.com/html/exercise.asp?filename=exercise_forms2)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_form\\_elements1](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_elements1)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_form\\_elements2](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_elements2)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_form\\_input\\_types1](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_input_types1)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_form\\_input\\_types5](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_input_types5)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_form\\_attributes1](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_attributes1)  
[http://www.w3schools.com/html/exercise.asp?filename=exercise\\_form\\_attributes4](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_attributes4)

## Module 3 - CSS

### 1. HTML5 & CSS Code Academy

- ◊ Course Link (Starting at the middle of the course):
  - [https://mva.microsoft.com/en-us/training-courses/html5-css3-fundamentals-development-for-absolute-beginners-14207?l=wH3IBzX6C\\_1705244527](https://mva.microsoft.com/en-us/training-courses/html5-css3-fundamentals-development-for-absolute-beginners-14207?l=wH3IBzX6C_1705244527)

### 2. 10 CSS3 Properties you Need to be Familiar With

- ◊ Course Link
  - <https://code.tutsplus.com/tutorials/10-css3-properties-you-need-to-be-familiar-with--net-16417>

### 3. Getting to Work with CSS3 Power Tools

- ◊ Course Link
  - <https://code.tutsplus.com/tutorials/getting-to-work-with-css3-power-tools--net-13894>

## Module 4 - CSS Creativity

1) For each of the links below, please modify the CSS to your liking and creativity. Utilize the HTML and CSS from the baseline examples below and copy and paste them to JSBin.com.

Please make all modifications in jsbin.com

Please save the jsbin url and send them to me.

Why not use cssdeck.com to make the changes? Because cssdeck.com website is really slow and laggy due to the advertisements.

<http://cssdeck.com/labs/8lyrxjyw>

<http://cssdeck.com/labs/olr2i1nk>

<http://cssdeck.com/labs/auvy8wts>

<http://cssdeck.com/labs/quvwatyp>

<http://cssdeck.com/labs/5bgqrrbq>

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## Activities, Assignments, Final Project

There are 3 types of exercises you will encounter in this course:

- **Practice Activities.** These are smaller **in-module exercises** designed to give you a chance to work on what you've just learned or to answer some basic questions on what you've just learned. They are designed to be repeatable until you get it right, but are important for the learning process.
- **Assignments.** These are more significant exercises given occasionally
- **Final Project.** The final project is to **plan, design, build, and publish an analytical web site/mobile app that will be presented to a Client.** We will divide the group into several teams for the final project.

## Community

An online course doesn't mean you will not be speaking to your peers and classmates! You will have the opportunity to ask questions on our Question and Answer Forum, found here:

<https://github.com/DSCoEd/IntroWebDevelopment/issues>

## Sections

Optional sections will be held throughout the week that are designed to help you with the mechanics of doing the work in the course as well as address more conceptual questions. Sections will be held via a JoinMe conference.

## FAQs

1) Do I need to maintain a specific pace in this course?

No. This course is 100% self-paced. That being said, in order to qualify for the final project, all the assignments must be completed. Note the noun "assignments" and not "modules".

2) I started two weeks late, can I still take the course?

Yes.

3) Will there be homework?

Not really, but there will be several assignments. The assignments will involve development exercises, code reviews, and checking in work.

4) Are assignment completion mandatory?

No, but students who don't complete the assignments won't be eligible for the final project.

5) What if I need help?

There are several avenues available:

- Post a question on <https://github.com/DSContEd/IntroWebDevelopment/issues>
- Email Tony
- Email the Mentors

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