V SCHOOL pre-course

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Purpose of this Document:

This document is meant to guide you through the beginning stages of V School, Level 0. *You can start learning from Level 0 to complete the Pre-Course Project.

The **MAIN REASONS** we assign the Pre-Course Project is:

- To make sure you have the ability to learn something difficult in a short amount of time.
- To make sure that each student is on the same base level on day 1 of the course.

*Students who complete Level 0 are better prepared as students at V School.

Consider this guide as your sherpa, helping you prepare for your ascent into the world of JavaScript development. Level 0 is our way of helping you make it to the base camp, prepared for the adventure ahead that is V School.

***Please note that the main priority of Level 0 is to complete the Pre Course Project(Step 3).**

Requirements for getting Started:

A. YOUR COMPUTER SHOULD HAVE 8GB OF RAM AND BE 5 YEARS OR NEWER.
   a. Window or Macintosh(preferred)
   b. Your machine must have Microphone and Video capabilities.

B. Make sure you have downloaded Downloaded Slack and have joined the V School WorkSpace. Please make sure to download zoom as well
   a. You can join the workspace following this link: V School WorkSpace.

C. If you have not done so already please BOOK a meeting with me so we can chat about Level 0 and get you started.
   a. If a student is more than 15 minutes late this meeting will be cancelled and need to be rescheduled.
   b. Please let me know at least 1 hour in advance if you cannot make our scheduled time, no worries!! :)

*PLEASE DOWNLOAD ZOOM!

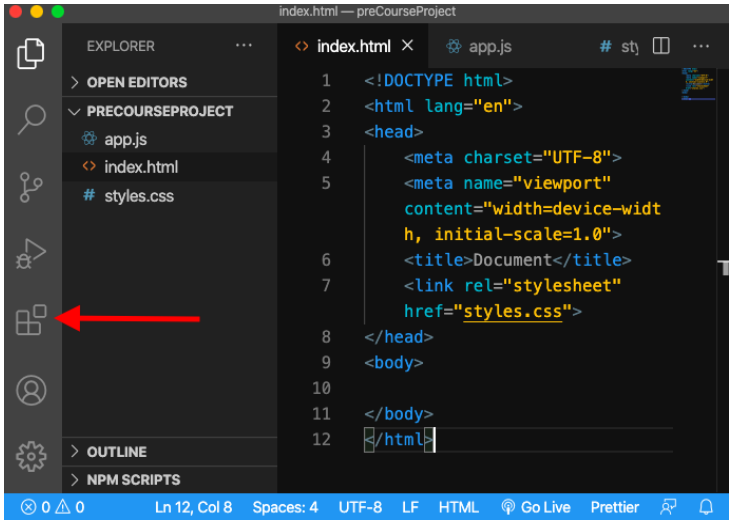
Getting Started

Step 1: Setup of Your Code Editor

A. You will need to install Visual Studio Code here. This is a text editor, a program used to write code.

B. Once Visual Studio Code has been installed, you should install the "Live Server" extension. Extensions are small tools in our Code Editor that help accomplish tasks while coding. To install this extension:

1. Open Visual Studio Code
2. Click the Extensions option in the menu bar on the left (see below image):



3. Search for "Live Server" in the search bar at the top
4. Install the first option (it will say "created by 'Ritwick Dey'")
5. Close and re-open the Visual Studio Code program

Step 2: Create and Open a project folder in your text editor

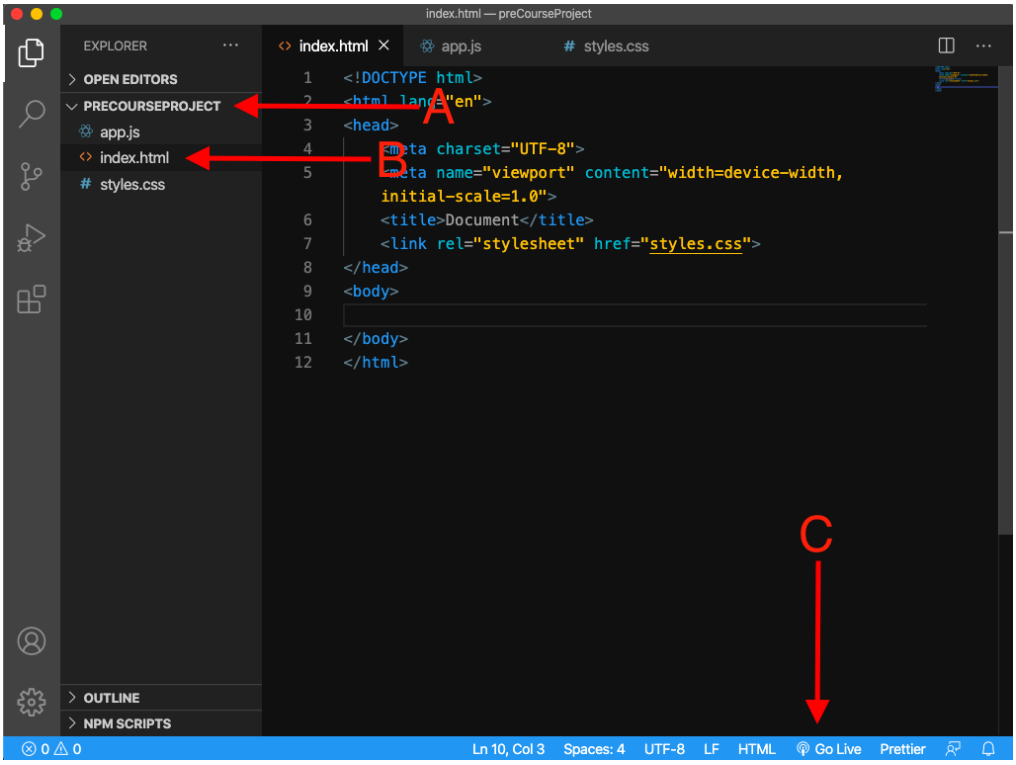
*Step 2 should be followed along with the curriculum provided in the "set up" section of Level 0

1. From your computer's desktop, right-click on your desktop and from the drop down menu select "New Folder" to create a new folder. Name this new folder: "VSchool".
    a. Inside the new "VSchool" folder create another new folder and call this folder "PreCourseProject".
2. Open your text editor, select the File drop down menu (top-left of the screen) > select "Open" or "Open Folder".

3. From here select the “PreCourseProject” folder you just created. Once selected your folder’s name should show up at the top-left of your text editor’s window.
4. Right-click under about an inch or so under your project folder’s name and create a New File called “index.html”.
5. Do the same thing to create a “styles.css” file and an “app.js file”. These are where you’ll write your HTML, CSS, and JavaScript code!

Below is an example of a successfully set up code editor:

A. Set up a project folder, and opened that folder in Visual Studio Code.
B. Create your index.html file in your project folder.
C. Then you will see the GO LIVE button appear.



- Clicking the “Go Live” button will open a tab in your computer's default browser and create a connection to your code. Changes you make and save in your code will automatically update the web page!
- If you have not done so already make sure Google Chrome has been set as your default browser.

Step 3: THE PRE COURSE PROJECT

For your project you will build a basic web app that meets the below requirements listed for an HTML, CSS and JS file.
*Level 0 will guide you through completing the below items.

***Your project folder must include—and you must be able to explain—the following:**

- **index.html**
    - ☑ Your HTML file will contain the content of your web app: words, images, links, and so forth. Any amount will do.
    - ☑ A <link> that references a separate CSS file that adds styling to the HTML elements of your web app.
    - ***DO NOT add CSS styles directly to your HTML file.***
    - ☑ A <script> that references a separate JavaScript file that adds interaction/functionality to your web application.
    - *****Don't add JavaScript code directly to your HTML file.***
- **styles.css**
    - ☑ Any amount of CSS you'd like to add to your project to style it, but there should at least be *some* styling added.
    - ☑ An HTML element should be referenced and styled in CSS
    - ☑ A class should be referenced and styled in CSS
- **app.js**
    - Be able to identify the following data types and notations:
        - ☑ Strings
        - ☑ Numbers
        - ☑ Booleans
        - ☑ Arrays (Why are they useful? What does "0-indexed" mean?)
        - ☑ Objects
        - ☑ Dot Notation (What is this used for and how is it implemented)
        - ☑ Bracket Notation (What is this used for and how is it implemented)
    - Use each of the following in your app.js file:
        - ☑ Create an object and navigate that object using dot notation.
        - ☑ Create an array and navigate that array using bracket notation.
        - ☑ A conditional statement (if, else if, else)
        - ☑ A for loop OR a while loop
        - ☑ An addEventListener method OR onclick to call a function

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Note: As the foundation of the course we are dedicated to helping you understand and use vanilla JavaScript, ***please don't use jQuery or any other dependencies in your project.***
The requirements listed are all that matter. It does not matter if someone told you different than what is outlined here. These are the requirements.

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*Our main focus will be the functionality of the JS and your ability to explain it. Your project can be very simple as long as it includes each of the checkbox requirements above. We won't be looking too closely at the styling or design of it, although you're welcome to spend time working on that as well.

Evaluation and Assessment:

DO NOT QUIT YOUR JOB OR MAKE ANY OTHER QUICK DECISION UNTIL YOU PASS YOUR EVALUATION

You'll be presenting your project to a V School instructor over a Zoom video conference call. Download Zoom here (choose the first option - "Zoom Client for Meetings") before your evaluation.

YOU DON'T NEED TO:

- Create a beautiful web page with elegant code.
- Know everything—we know you came to us for a reason. We're here to help.

YOU JUST NEED TO:

- Be accountable for the content taught in the Level 0 video series
- Complete your capstone pre course project and the code it contains
- Be able to talk intelligently about each part of your code in your capstone

Learning Resources:

The V School Level 0 will guide you through all the necessary information needed to complete this project.

→ Level 0

Good luck!