**BCVD1006 – Full Stack Development – Lab 1**

* Environment Setup

**To get set up with a bare minimum for web development, you will need— a text editor and some modern web browsers.**

**Task 1: Install a text editor**

You probably already have a basic text editor on your computer. By default Windows includes [Notepad](https://en.wikipedia.org/wiki/Microsoft_Notepad) and macOS comes with [TextEdit](https://en.wikipedia.org/wiki/TextEdit). Linux distros vary; Ubuntu comes with [gedit](https://en.wikipedia.org/wiki/Gedit) by default.

1. [Sublime Text](https://www.sublimetext.com/)
2. [Atom](https://atom.io/)
3. [Notepad++](https://notepad-plus-plus.org/)
4. [CoffeeCup – The HTML Editor](https://www.coffeecup.com/html-editor/)
5. [TextMate](https://macromates.com/)

**Task 2: Install a Modern Browser**

Installing modern web browsers

For now, we'll install a couple of desktop web browsers to test our code in. Choose your operating system below and click the relevant links to download installers for your favorite browsers:

* Linux: [Firefox](https://www.mozilla.org/en-US/firefox/new/), [Chrome](https://www.google.com/chrome/browser/), [Opera](https://www.opera.com/), [Brave](https://brave.com/).
* Windows: [Firefox](https://www.mozilla.org/en-US/firefox/new/), [Chrome](https://www.google.com/chrome/browser/), [Opera](https://www.opera.com/), [Internet Explorer](http://windows.microsoft.com/en-us/internet-explorer/download-ie), [Microsoft Edge](https://www.microsoft.com/en-us/edge), [Brave](https://brave.com/) (Windows 10 comes with Edge by default; if you have Windows 7 or above, you can install Internet Explorer 11; otherwise, you should install an alternative browser).
* macOS: [Firefox](https://www.mozilla.org/en-US/firefox/new/), [Chrome](https://www.google.com/chrome/browser/), [Opera](https://www.opera.com/), [Safari](https://www.apple.com/safari/), [Brave](https://brave.com/) (MacOS and iOS come with Safari by default).

Before going on, you should install at least two of these browsers and have them ready for testing.

**Note**: Internet Explorer is not compatible with some modern web features and it may not be able to run your project. You usually don't need to worry about making your web projects compatible with it, as very few people still use it — certainly don't worry too much about it while you are learning. You might sometimes run into a project that requires support for it.

**Task 3: Install Visual Studio Code**

For web development, you can probably do better than Notepad or TextEdit. We recommend starting with [Visual Studio Code](https://code.visualstudio.com/), which is a free editor, that offers live previews and code hints.

# Setting up Visual Studio Code

Getting up and running with Visual Studio Code is quick and easy. It is a small download so you can install in a matter of minutes and give VS Code a try.  
  
**Cross platform**

VS Code is a free code editor, which runs on the macOS, Linux, and Windows operating systems.

Follow the platform-specific guides below:

* [macOS](https://code.visualstudio.com/docs/setup/mac)
* [Linux](https://code.visualstudio.com/docs/setup/linux)
* [Windows](https://code.visualstudio.com/docs/setup/windows)

VS Code is lightweight and should run on most available hardware and platform versions. You can review the [System Requirements](https://code.visualstudio.com/docs/supporting/requirements) to check if your computer configuration is supported.

**Task 4: Create and submit first file**

1. Watch the following VS Code intro and basic video to download and create your first ‘hello world’ file.

<https://code.visualstudio.com/docs/introvideos/basics>

1. Navigate to Black Board and submit the hello world file (file examples, helloword.txt, helloworld.html, helloworld.js) to Lab 1