**IS 312 Web Design – TypeScript/JavaScript**

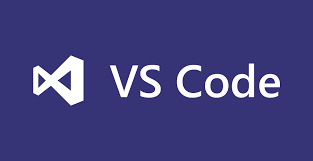
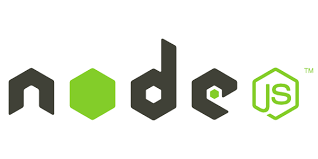
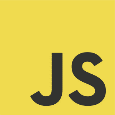
**HP01A Installing Node.js, NPM, and TypeScript in VSCode**

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19/5/2020 Updated by Amrutha

10/03/2020 Reviewed by Kim Nguyen

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**Before You Start**

* If you already finished this VSCode(VSC) module through any CityU Department of Technology and Computing courses, just skim through the steps to verify you have the following tool(s) set up for the future group activities in the class.
  + Node.js
  + NPM
* Version numbers may not be the latest release shown in this document. However, we encourage the students to install the latest official release version or long-term support version (LTS).
* This document primarily targets Windows OS users. MacOS users may require additional resources to complete the requirement. Please contact the instructor for further assistance.
* This group activity shows step-by-step (i.e. cookbook style) tutorial and students are encouraged to make an educational judgement to complete each step. If not clear, please contact the instructor for clarification.
* For your working directory, use your course number (e.g. CS142). This tutorial may use a different course number as an example.

**Learning Outcomes**

* Installing Node.js
* Running Node.js
* Verify Node Package Manager (npm) is installed.

**Installing Node.js**

1. Visit <https://nodejs.org/en/>

A screenshot of a cell phone

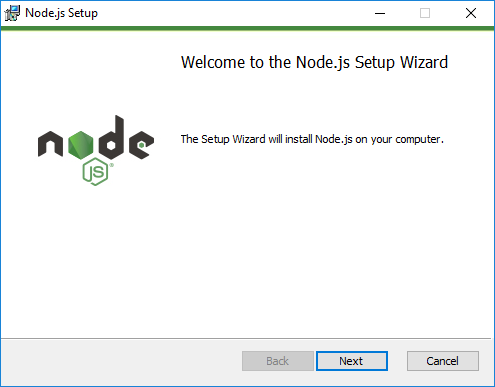
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Note: For selecting a different OS click on the downloads tab.

A screenshot of a cell phone

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1. Download the installation file for your operating system. At the time of writing, “node-v12.16.3” is the latest LTS.
2. Start the installation process for Node.js.



**Running Node.js**

1. Open VS code and then open the folder [**aws-apprenti-2020**](https://github.com/cityuseattle/aws-apprenti-2020.git)**/CS142** on your local machine

A screenshot of a cell phone

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1. Inside CS142 check if your **firstnamelastname** folder is available, if not create the folder and navigate inside it.  Open the terminal and type the following commands.

1. Check the version of Node.js by typing the following and confirm the version number:

>>> node --version



Also, type **node** at the prompt to verify if the Node.js is integrated to VSC (see below).

>>> node

A picture containing drawing

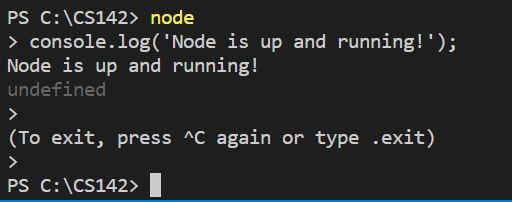
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>>> console.log('Node is up and running!');

A close up of a logo

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To exit type Ctrl+c twice



**Checking for Node Package Manager (NPM)**

Note: Installing Node.js already includes NPM.

1. Check the version of npm by typing the following:

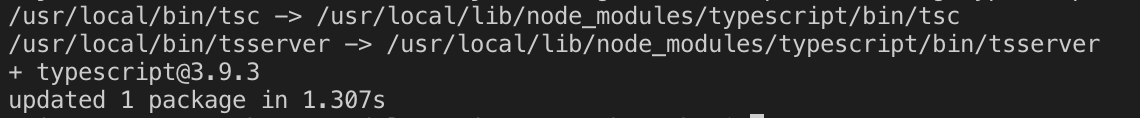
>>> npm -version



**Installing TypeScript transpiler**

1. TypeScript transpiler can be installed via NPM, and we’ll install the transpiler globally.  
   And then, we will verify the version of the TypeScript.

>>> npm install –g typescript



>>> tsc –version

