# Week 4 Node/npm/gulp Bootstrap Install Notes

1. Type “command prompt” in the start menu and open it.
2. In the command prompt **run:**  *node –v* (To see if you have node.js already installed and the version).
3. If you do not have node.js, download the appropriate version for your operating system at [Node.js](https://nodejs.org/en/download/) system.
4. **run:** *node -v* to make sure it downloaded successfully (it should display version 12.15.0)
5. If you have an older version of node.js installed, **run:** *npm install npm@latest -g* (updates node.js to the current version - check the version again to make sure it updated to 12.15.0).
6. **run:** *mkdir bootstrapsproj1 && cd bootstrapproj1* (creates a directory for your bootstrap project and puts you in that directory)
7. **run:** *npm install –g gulp-cli* (installs global gulp).\*\*This step is not mentioned in the tutorials, don’t skip it.
8. **run:** *npm init -y* (creates a json file to store your Bootstrap project with the default settings).
9. **run:** *npm install browser-sync gulp-sass --save-dev gulp* (This installs 3 packages saved with development dependencies – **gulp**: a JavaScript task runner that provides automation of development tasks -such as compiling code; **browser-sync**: automatically refreshes the browser when changes are made; **gulp-sass**: enables sass compiling).
10. **run:** *npm install bootstrap jquery popper.js --save* (installs bootstrap, jquery (JavaScript library) and popper.js, which handles positioning of popovers and tooltips).

**\*\*NOTE: After you install these packages, take a screenshot of your command prompt to include with your assignment.**

1. **run:** *code .* (starts Visual Studio Code (VSC) with your project folder)
2. In VSC, create a **“src” folder** in your **“bootstrapproj1” root folder.**
3. Inside the **“src” folder**, create an **index.html** file**,** an **“assets” folder**, a **“css” folder**, a **“js” folder** and a **“scss” folder.**
4. Inside the **“scss” folder**, create a **“styles.scss” file**
5. Inside the **“src” folder**, create an “**index.html” file** and copy/save this code:

*<!DOCTYPE html>*

*<html class="no-js" lang="en">*

*<head>*

*<title>Bootstrap 4 Layout</title>*

*<meta http-equiv="x-ua-compatible" content="ie=edge">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0" />*

*<link rel="stylesheet" href="/css/bootstrap.css">*

*<link rel="stylesheet" href="/css/styles.css">*

*</head>*

*<body>*

*<script src="/js/jquery.min.js"></script>*

*<script src="/js/popper.min.js"></script>*

*<script src="/js/bootstrap.min.js"></script>*

*</body>*

*</html>*

1. In VSC, paste/save the following code to your **styles.scss file**:

*$bg-color: red;*

*body {*

*background: $bg-color;*

*}*

1. In the root folder **(bootstrapproj1)**, create a file called **gulpfile.js** and paste/save the following code:

var gulp = require('gulp');

var browserSync = require('browser-sync').create();

var sass = require('gulp-sass');

// Compile sass into CSS & auto-inject into browsers

gulp.task('sass', function() {

return gulp.src(['node\_modules/bootstrap/scss/bootstrap.scss', 'src/scss/\*.scss'])

.pipe(sass())

.pipe(gulp.dest("src/css"))

.pipe(browserSync.stream());

});

// Move the javascript files into our /src/js folder

gulp.task('js', function() {

return gulp.src(['node\_modules/bootstrap/dist/js/bootstrap.min.js', 'node\_modules/jquery/dist/jquery.min.js', 'node\_modules/popper.js/dist/umd/popper.min.js'])

.pipe(gulp.dest("src/js"))

.pipe(browserSync.stream());

});

// Static Server + watching scss/html files

gulp.task('serve', gulp.series('sass', function() {

browserSync.init({

server: "./src"

});

gulp.watch(['node\_modules/bootstrap/scss/bootstrap.scss', 'src/scss/\*.scss'], gulp.series('sass'));

gulp.watch("src/\*.html").on('change', browserSync.reload);

}));

gulp.task('default', gulp.parallel('js','serve'));

1. In the command prompt, **run:** *gulp*(Your website should load in the browser and you should see a red background. This is where you will submit your files for the assignment. We will continue exploring Bootstrap and working through more of the tutorial for the assignment next week, so I encourage you to continue working with it if you have time.

**NOTE:** If you follow the online video and written tutorial below, you need to make sure you use the correct gulpfile.js code (available on [GitHub](https://gist.github.com/ntry/8a87ecb8427f044211dc3bfa390ff971#file-bootstrap-tutorial-gulp4-gulpfile-js)) that is compatible with the newer versions of gulp, so pay special attention to steps 7 and 17 above to avoid issues. I mention this is my demo video and there are comments on both tutorials.

**Source:**

These notes and my video demonstration follow a video and written tutorial put out by DesignCourse, listed below.

**Video:** [Bootstrap 4.0 Crash Course](https://youtu.be/hnCmSXCZEpU) (Follow it from 3:15 -13:10 to follow what is covered in this week’s assignment)

**Article:** [Bootstrap 4.0 Crash Course](https://coursetro.com/posts/code/130/Learn-Bootstrap-4-Final-in-2018-with-our-Free-Crash-Course)