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## MMC6278 Advanced Web Topics 2

### How to Transpile ES6 Into ES5 Syntax

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#### First, you must install Node.js

- Download the version of Node labeled "LTS"
  - <https://nodejs.org/en/download/>
- After your download is complete, open the downloaded installation package and follow the installation instructions
- After installation, open your command line application of choice (if you already have a terminal open, make sure to close it and open a new terminal to get access to your installation)
- Type **node**, and press **enter/return**
- You should be put into an interactive JavaScript console
  - Your command line is now ready to use Node!
  - Press the **control button (CTRL)** and **C (CTRL-C)** at the same time to exit the JavaScript console

#### Next, we need to set our project up to transpile our code:

- Make sure you put all of your ES6 files into a folder called "src"
- Navigate to your project folder in your Bash shell (Terminal)
- Run: **npm init**
- Press enter through all of the options
  - You can add project name and description if you want
- Run: **npm install babel-cli -D**
- Run: **npm install babel-preset-env -D**

- In your root directory, run: **touch .babelrc**
- Open .babelrc and add:
  - **{ "presets": ["env"] }**
- Save and exit
  - Note: .babelrc is a hidden file. The best way to access and open it is to use `ls -a` to see all of your files, including hidden ones. Then, use your text editor command to open the file, for example: **atom .babelrc**
  - You can also set up your folders to show hidden files using the command line
- Open package.json
- Find the line that reads: **"test": "echo \"Error: no test specified\" && exit 1"**
- Add a comma to the end of the line, and right below it add:
  - **"build": "babel src -d lib"**
- Save and exit
- Now, we need to call "build" from the command line to transpile and write ES5 code to a directory called lib
  - Run: **npm run build**
  - You will need to run this command every time you want to re-transpile your code