



# Setting up your environment

## Context

Important: Those instructions will help you to get the basic environment working in your laptop (PC or MAC) **before** the training. Please proceed with the installations in order to improve your experience during the course!

## Introduction

We are going to use the **Angular CLI** to do the labs. It is some kind of starter kit for Angular projects. This is a solid base that follows the best practices and will reduce setup time so we can focus on learning Angular!

## Setup

Follow these steps to setup your environment:

## Step 1: Install Node.js (If not already done)

You can check whether you have Node.js setup by opening a terminal (MAC) or command prompt (PC) on your development machine and executing **node -v**.

If you do not have **v6.9 minimum** or if you get an error, go to <https://nodejs.org/> and download then install the latest “LTS” distribution for your development machine.

**MAC users**, need help to install node? Follow this guide:

<https://docs.npmjs.com/getting-started/installing-node>

Then, check that you have **npm version 3 minimum** with command: **npm -v**

If not, you can update npm with: **npm install -g npm@latest**

## Step 2: Install the Angular CLI

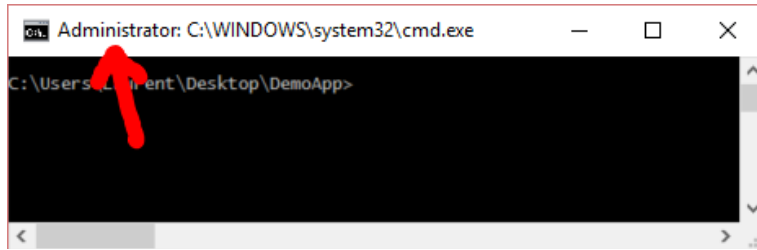
Now you need to install the **Angular CLI** from npm, which is Node.js’ package manager.

*If you had already installed a version of the CLI previously, you must uninstall it.*

*Please see the procedure in the last page of this document.*

Install the CLI:

Windows users, open a command prompt in admin mode



If you need help on how to open a command prompt in admin mode, follow this guide:  
<http://pcsupport.about.com/od/commandlinereference/f/elevated-command-prompt.htm>

Then execute the following command:  
**npm install -g @angular/cli**

MAC users, open your terminal and run this command:  
**sudo npm install -g @angular/cli**

Problem: npm does not work on my corporate network!

Please refer to the following procedure:  
<https://jasonclark.com/how-to-setup-node-behind-web-proxy>

Problem: npm gives you this error: UNABLE\_TO\_GET\_ISSUER\_CERT\_LOCALLY

You may fix this by editing the file C:\Program Files\nodejs\node\_modules\npm\npmrc and add this line: **strict-ssl=false**

But I get WARNINGS!!

It is possible that you see some warnings in the installation window, in general this is not a problem. Pay more attention to ERRORS, marked in red. In this case note the error and try to find a solution on Google because it can be a multitude of different problems.

*If you are on Windows and get **Python** or **node-gyp** related errors, please try the procedure "Installation supplements" in the last page of this document.*

## Step 3: Prepare an initial project

Create a new folder somewhere in your local drive, (ie: C:\Users\Laurent\AppData\Local\).

On a terminal (MAC) or command prompt (PC), navigate to this new folder, then execute the following command:

```
ng new DemoApp -sg -st
```

Wait for the procedure to finish (it might take some time!).

To test if everything works, run the following commands:

```
cd DemoApp  
ng serve -o
```

This will compile the app and open your default web browser on <http://localhost:4200>  
you should see this message: "app works".

That's it, there is nothing more to do right now. We will start from here to work on a new Angular app!

## And what about the code editor??

You can use the tool of your choice (Sublime, Atom, Eclipse, WebStorm, IntelliJ, Visual Studio, ...).

The instructor is using **Visual Studio Code**, which is free, available on PC, MAC and Linux, and offers free extensions which greatly improve the experience while developing an Angular app. We strongly recommend you to give it a try! You can download it from <http://code.visualstudio.com>

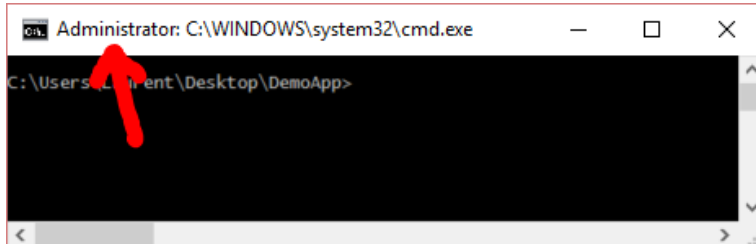
## Questions/Support

If you have any question, contact me at [laurent@ldex.ca](mailto:laurent@ldex.ca), Thanks!

# Annexes

Uninstall a previous version of the CLI

**Windows users**, open a command prompt in **admin mode**



Then execute the following commands:

```
npm uninstall -g angular-cli @angular/cli  
npm cache clean
```

**MAC users**, this is the same procedure as above, but each command must be prefixed with **sudo**

## Installation supplements for Windows

Many installation problems are often due to a lack of prerequisite (node-gyp, C++, Python, ...), that we can easily fix with the following procedure :

On an admin mode command prompt, type the following commands:

```
npm install -g windows-build-tools
```

When finished (it takes a long time ...) you can resume the installation of the CLI with the command mentioned above:

```
npm install -g @angular/cli
```

Then go to step 3 as seen on the previous page.