

Quick Install Process on Windows 10

Version: 1.0

Introduction

This document provides a quick listing of the tools needed and basic install instructions for each -- which is used throughout this course. Before you get started installing all the tools and software for this course, there are a few basic requirements. After that, I provide the general instructions for each tool used. Since this page is designed to aide the "get to the point" crowd, I keep my instructions as brief as possible.

In order to support the most recent version of Windows available, these instructions were tested using **Windows 10**. However, with some modification, these instructions will generally work for older versions of Windows.

Getting Started and Common Tools

Admin Rights

You need to have Administrator rights to your system. Most modern versions of Windows come with several "flavors" of user accounts -- only Administrators can install software.

The Right Bits

Windows comes in two flavors: 32-bit and 64-bit. What's even more confusing -- you might have a 32-bit version on hardware able to run 64-bit software.

The fastest way to find out if you have 32 or 64-bits installed:

- Right-click on the *Start Menu*, this will display a pop-up menu
- Click on the *System* item
- Once the *System* window appears, look for the **System Type** entry under the *System* section. This should tell you if you have 32 or 64-bit version of Windows.

Make a note of this -- you'll want to install the 32-bit or 64-bit version of any software in order to best match your operating system and to have the best performance possible, when given the choice.

Google Chrome

Optional.

I use Google Chrome for most of my courses. A few years ago, I would have strongly recommended or border-lined required the use of Chrome. However, most modern versions of all common browsers are adequate -- although the software engineer in me still prefers Chrome. For those wanting to follow along as closely as possible, install and use Chrome during this course. However, this is an *optional* step now, but I include it for completeness.

Install for Windows

- Go to the [Google Chrome Desktop](https://www.google.com/chrome/browser/desktop) page at <https://www.google.com/chrome/browser/desktop>
- Click on the **Download Chrome** button
- Accept the *Terms of Service* agreement (after reading, of course)
- Follow the instructions through the install process

Git for Windows

Required.

Git is the source control tool used in this course and the Terminal program used on Windows.

Install on Windows 10

- Download [Git for Windows](https://github.com/git-for-windows/git/releases/latest) directly from <https://github.com/git-for-windows/git/releases/latest>.
- Run the installer program, follow the defaults (recommend other choices in the video, but defaults are ok too)
- Open the **Git Bash** program, which is a Bash Shell terminal designed specifically for Git on Windows

Configure Git

Git requires your name and email address before any real work can be done. It is best to just configure Git from the start.

```
git config --global user.name "Your Name"
git config --global user.email "your.email@your-place.com"
```

Notepad++

Optional.

Windows comes with a text editor called **Notepad**, but it doesn't do much beyond allow you to edit text and many IT professionals prefer something more. I use a free and open-source program called **Notepad++** for most of my Windows based courses. If you are happy with Notepad, then this step is *optional*.

Install

- Download **Notepad++** from <https://notepad-plus-plus.org/download>
- Since there are many adverts on the page, ensure you select the **Notepad++ Installer** and not an AD by mistake.
- Once the installer has finished downloading, run the installer.
- Follow all the defaults through the install process with the following exceptions:
 - Check *Create Shortcut on Desktop* (personal choice)

Notepad++ System-Wide

If you plan to use Notepad++ a lot, I highly recommend adding Notepad++ to your system's PATH environment variable. You can confirm whether or not this is needed by opening a **command prompt** or **Git Bash** and type `notepad++` and press the `enter` key. If Notepad++ launches, then no additional work is needed. If you get a `Command Not Found` or similar error, then add the Notepad++ install folder to the system **Path** variable.

Bash Configuration

Open or create the `~/.bash_profile` file and add the following line:

```
alias npp='notepad++ -multiInst -nosession'
```

Git Integration

Open Git Bash and issue the command:

```
git config core.editor "notepad++ -multiInst -nosession"
```

Then test it out by:

```
git config --global -e
```

Oracle Java Development Kit

Required.

The Oracle Java Development Kit is needed to compile Java projects and is used with Maven (below).

Installation

- Go to the [Java SE Downloads](#) page
- Select the **JDK download** button
- On the *Java SE Development Kit Downloads* page, accept the license

- Click on the *windows*-exe that matches your platform (**i586** for 32-bit systems or **x64** for 64-bit systems)
- Once the installer has downloaded, run the installer
- Accept all defaults through install process

Java Home

Maven (below) requires the **JAVA_HOME** system variable be set to the currently installed JDK location.

Apache Maven

Required.

Maven is the build tool we use for Java projects in this course.

Installation

- Go to the [Apache Maven downloads](#) page
- Click on the **Binary zip archive** link to download the *ZIP* file
- Expand *ZIP* file some place on your system (this will be important later)
- Copy the path to the Apache Maven install location (contains the *LICENSE* file)

Maven Setup

- Create a system variable called **M2_HOME** and paste in the value of the Maven install location
- Edit the **Path** system variable
- Add, at the end of the **Path** variable: `;%M2_HOME%\bin` (this will resolve to the *bin* folder inside the Maven install location)
- Close out any dialog boxes and Control Panel windows
- Open your terminal of choice (restart it, if already open)
- Type: `mvn -version` (this will confirm Maven is installed and accessible from anywhere on your system)