

# Tutorial 1 – Source Control Management

**Preparation Instructions** (for Windows - other systems should be similar to configure)

## Installing Git

1. Download and install Git SCM from <https://git-scm.com>.
2. Add the Git bin folder to your Path in the environment/system variables.
  - a. Open the **Environment Variables** management window.
  - b. Under **System variables** select **Path** and **Edit....**
  - c. Add the path of your Git bin folder (without the quotes and including the semicolon, which is the delimiter in this case) “;<InstallationFolder>\Git\bin”.

Ex ...;C:\dev\Git\bin

3. To verify installation, open your command line and execute:

```
git --version
```

and console output should be similar to:

```
git version 2.7.2.windows.1
```

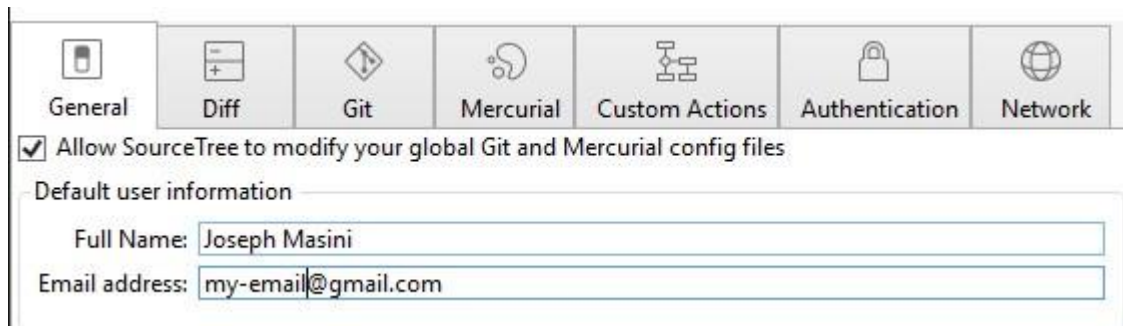
Which marks you have successfully installed Git!

## Create a (free) GitHub account

1. Go to <https://github.com/join?source=header-home> and **Sign Up** for a free GitHub account.
2. Keep track of your username and email, we will need these during the tutorials to grant you collaborative rights.

## Installing Source Tree

1. Download and install SourceTree from <https://www.sourcetreeapp.com>.
  - a. You might have to create an account for this application, but you can use the Google integration to facilitate this.
2. Go to **Tools -> Options** and in the **General** tab, in the **Default user information**, set your full name and email address, where the e-mail matches your GitHub account.



General   Diff   Git   Mercurial   Custom Actions   Authentication   Network

☒ Allow SourceTree to modify your global Git and Mercurial config files

Default user information

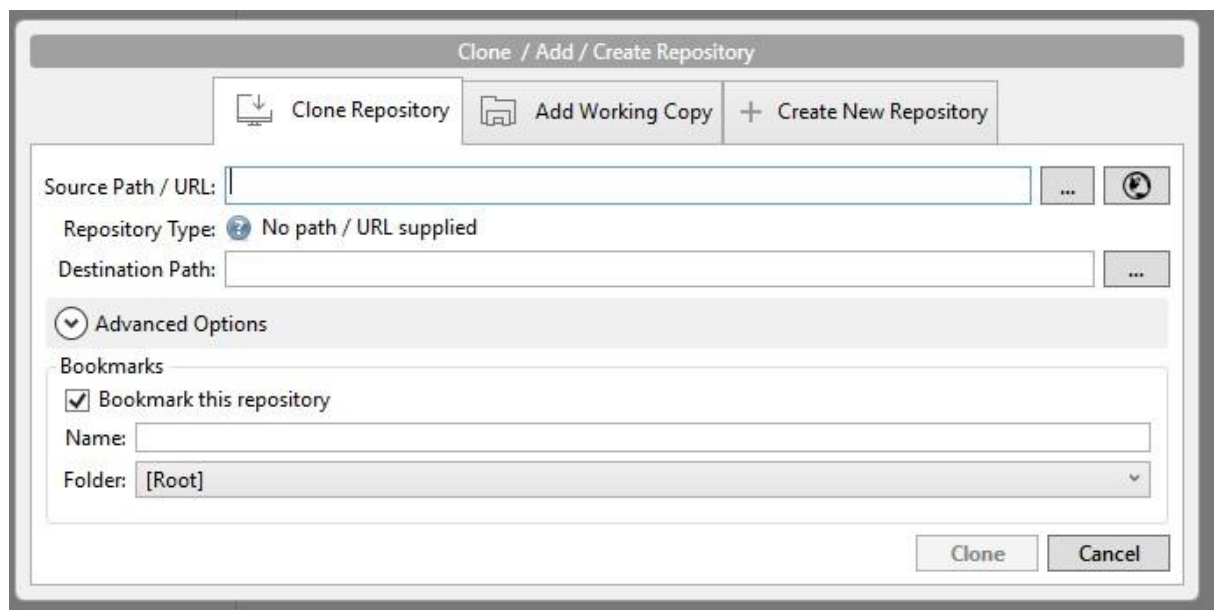
Full Name:

Email address:

## Clone Repository

*At some point during this process, you might be asked to enter your credentials/authentication. Enter your GitHub details.*

1. Open Source Tree.
2. Go to **File -> Clone / New...** and you should be prompted with the following window:



Clone / Add / Create Repository

Clone Repository   Add Working Copy   + Create New Repository

Source Path / URL:

Repository Type: No path / URL supplied

Destination Path:

Advanced Options

Bookmarks

☒ Bookmark this repository

Name:

Folder:

Clone   Cancel

3. In **Source Path / URL** enter the GitHub repository address:

<https://github.com/josephmasini/softwareengineering>

and accordingly also change the **Destination Path** to where you wish to store the repository locally, in my case:

C:\dev\tutorials

4. To confirm the downloaded repository, go to the folder and you should have the following structure:
  - a. .gitignore
  - b. pom.xml

- c. `src/test/java/PatternRepeaterTest.java`
  - d. `src/main/java/PatternRepeater.java`
- 
5. Install Maven <https://maven.apache.org> and the maven **bin** folder to your Path Variable in your PC's environment variables.
  6. Run **mvn clean install** and it should end in a successful build.