

Setting up Git

Note: 64 bit machine is required for this install.

- Double click Git-2.7.4-64-bit.exe
- Allow program to make changes on computer
- Click Next
- Click Next
- *Leave default: "Use Git from Git Bash only"*
- Click Next
- *Leave default: "Checkout Windows-style...."*
- Click Next
- *Leave default: "Use MinTTY...."*
- Click Next
- *Leave "Configuring extra options" defaults*
- Click Next
- *This will take a minute.*
- *Note: the destination directory is C:\Program Files\Git*
- Click Finish
- Go to C:\Program Files\Git
- Double click git-bash.exe
- *Git Bash should open. I recommend pinning this program to the taskbar.*
- Type following command (notice the two dashes):
 - `git --version`
 - Ensure the output looks like: `git version 2.7.4.windows.1`

Get GitLab Account

- Go to <http://gitlab.com/>
- Set up an account
 - Keep everything professional
- Give me your username when finished

Clone Repository

- Open Git Bash
- Type following commands (descriptions to right, bold are git commands)
 - `cd ~` ****go to home dir**
 - `mkdir my_git_repos` ****make new dir (for all repos)**
 - `cd my_git_repos`
 - `git clone <url>` ****clone repo at <url>**
 - `cd <created directory>` ****go into created repo/dir**
 - `git checkout -b Firstname_Lastname` ****create new branch**
 - `mkdir Firstname_Lastname_Code` ****make new dir (for your code)**
 - `cd Firstname_Lastname_Code`
 - `touch README.md` ****create README.md**
 - `echo "Firstname Lastname's code" > README.md` ****put text in file**
 - `git add README.md` ****add file to staging area**
 - `git commit -m "Firstname Lastname add README.md"` ****commit changes**
 - `git push --set-upstream origin Firstname_Lastname` ****push changes to central repo**

Find Week 1 Java Homework

- In the repository you just cloned, there is a file:
 -\Week_1-Java\Java Homework\Core Java HW.docx
- In this file there are Java questions that are due by the Friday of Week 1.
- The homework must be submitted to GitLab on your Firstname_Lastname branch.
- Hint:
 - Make sure you are on your Firstname_Lastname branch
 - In Eclipse, create a Java project under the Firstname_Lastname_Code directory
 - Example: Firstname_Lastname_Code\CoreJavaHomeworkWeek1

Helpful Git Commands (for later use)

1. You made changes to files A.java and B.java and you want to push up the changes

- git status
 - **you can see the files were modified
- git add A.java
- git add B.java
- git status
 - **you can see the files were added to the **staging area**
- git commit -m "add A.java and B.java"
- git status
 - **nothing to commit, that means the file changes were committed
 - **however, it says "Your branch is ahead of 'origin/Firstname_Lastname' by 1 commit."
- git push
- git status
 - **perfect, now it says "Your branch is up-to-date with 'origin/Firstname_Lastname'."

2. The trainer put new code up on git and you want to pull those changes

- a. You can look at the code on gitlab.com
- b. This is assuming you want the code locally, the new code is on the master branch, and you are on your Firstname_Lastname branch
- git checkout master
- git pull
- git checkout Firstname_Lastname
- git merge master -m "get new code from master branch"