

Basic Git Commands

Installing Git

Windows:

GUI:

All IDE's should have git support built in. We'll install Anaconda during the meeting. Anaconda comes with PyCharm as the IDE.

Otherwise, you can use any separate git client. I've had people recommend SourceTree before.

Mac:

GUI:

All IDE's should have git support built in. We'll install Anaconda during the meeting. Anaconda comes with PyCharm as the IDE.

Otherwise, you can use any separate git client. I've had people recommend SourceTree before.

Command Line:

```
$ git --version
```

Then follow the instructions on screen.

Linux:

Command Line:

```
$ sudo apt-get install git-all
```

*This example is for Debian-based distributions. If you have a different package manager then use that instead of "apt-get".

GUI:

All IDE's should have git support built in. We'll install Anaconda during the meeting. Anaconda comes with PyCharm as the IDE.

I don't have any experience with any separate clients. I just use the command line and that or using your IDE is probably your best bet. I'm sure you can Google one though.

Git Shell Commands

Configure Git:

Changing name and email:

```
$ git config --global user.name "John Doe"
$ git config --global user.email johndoe@example.com
```

If you want to use a different text editor:

```
$ git config --global core.editor nvim
```

If you want to view your settings:

```
$ git config --list
user.name=John Doe
user.email=johndoe@example.com
color.status=auto
color.branch=auto
color.interactive=auto
color.diff=auto
...
```

Need To Know About Any Git Command?

```
$git help <verb>
```

Or just ask any question you have to Google like every professional programmer I know. I literally had a friend tell me his entire programming department just got up and went home one day cause the internet went out.

Using Git

Copying Remote Repository:

```
$ git clone "https://github.com/njdavis/EWBVT-GuatemalaConstructedWetland.git"
```

Creating a New Branch (Do the next 2 steps before you start making changes to our code):

```
$ git checkout -b yourName  
Switched to a new branch "yourName"
```

Switching Branches:

```
$ git checkout yourName
```

Staging Files for Commit (these are the files you are “saving” to the remote repository):

To add an individual file or directory:

```
$ git add somefile
```

To add all the files that have been changed:

```
$ git add --all
```

Committing Files (Basically saving all the files):

```
$ git commit -m "Some message describing what you've changed/Notes on current files" someFile
```

Pushing to Github (copies your git saves from your computer to our GitHub repository):

```
$ git push
```