**Using GitHub to share and update code**

A good tutorial website: <https://www.atlassian.com/git/tutorials>

Start with Beginner - this will explain what Git is and show you how to install it on your own computer: <https://www.atlassian.com/git/tutorials/what-is-version-control>

Getting started will show you how to clone an online repository: <https://www.atlassian.com/git/tutorials/setting-up-a-repository>

We can try collaborating using the workshop Git: <https://www.atlassian.com/git/tutorials/syncing>

——————————————————————-

Git is easy to use if you are already writing code in PyCharm or VSCode.

You can also use Git with Spyder just like you would on the command line - to do this you always have to type **!git** instead of just **git.**

In toolbar click on View > Panes > Project (make sure there is a check mark)

——————————————————————-

We can run through an example with your repository of choice together

!git clone {repository}

* For our example:
* !git clone <https://github.com/Adaptive-climate-information-tools/collaborative_python.git>

!git branch -a

!git branch {newbranch}

* For our example:
* !git branch {yourname}

!git checkout {newbranch}

* For our example:
* !git branch {yourname}

!git branch -a

!git status

!git add {file}

!git status

!git commit -m ‘any message of your choice’

!git push origin {your-branch-name}

* For our example:
* !git push origin {yourname}

!git pull origin {name of remote branch you want to track}

* For our example – if you want the merged master version:
* !git pull origin
* For our example – if you want to keep working on your own personal branch:
* !git pull origin {yourname}