**Git hub use notes**

**January 12, 2018**

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Working on main lab computer, Michelle helped me set up a github repository (through online account + Git Bash application) as directory:

Q:\Research\All\_Projects\_by\_Species\Phacelia SPECIES\Phacelia\_formosula\Phacelia formosula\_abiotic\Modelling\BayesAss\Phacelia\_BayesAss\_GitCode

To set up a new repository-directory on Q drive & git hub, online, we made a new repository thorugh github account. Then, on computer, in Git bash:

cd to new directory which will be the repository (same name)

git clone (paste url from github repository)

This can also be done from computer (not git hub website) using the git init command.

Daily use, saving version changes at end of day:

In Git Bash, cd to above directory

git add . #adds all changes in working directory to staging area

git status #prints status of items in repository (in terms of edits and saves)

git commit -m “this version has some cool new saves” #this sets up a new version – with key annotation

git push # this completes the process, pushing the files to github.

Can access code, history of changes and past versions, through online Git Hub interface:

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git add . command grabs everything in a directory – for ease of use, I’m organizing code the way Michelle does, with separate directories for code, so that the whole directory can be pushed to git hub – data lives in neighboring directories and R code points to it.

**February 8, 2017**

I’d like a place for R-learning scripts as a reference and to practice ideas from books and tutorials. This is particularly good one to have on Git so I can access it from other places. I think the work would be less frustrating if I was more actively honing R skills along the way – just 30 min per garden day. Less learning by doing, more actual learning.

1. Make a new directory on Q drive (Learn\_R)
2. Open git bash and cd to it. Starts with cd ../q to get from p to q. use \ character to escape space.
3. In browser, log in to git hub account. Create new repository (Learn\_r)
4. Copy url from clone button <https://github.com/jbertathompson/Learn_R.git>
5. Back in git bash: git clone https://github.com/jbertathompson/Learn\_R.git
6. Oops this did not do what I wanted it to. This put Learn\_R repository inside Learn\_R directory (two directories nested)
7. On website, settings -> delete repository
8. On computer, delete repository.
9. On website, make it again. <https://github.com/jbertathompson/Learn_R.git>
10. From Modelling/ run “git clone https://github.com/jbertathompson/Learn\_R.git”

Then make a new R markdown for the work. At end of a little work:

In Git Bash, cd to this directory: /q/Research/All\_Projects\_by\_Species/Phacelia SPECIES

/Phacelia\_formosula/Phacelia formosula\_abiotic/Modelling/Learn\_R (master)

git add . #adds all changes in working directory to staging area

git status #prints status of items in repository (in terms of edits and saves)

git commit -m “message about this version” #this sets up a new version – with version annotation

git push # this completes the process, pushing the files to github.