# Save a file to git

!git add . # Stage all changes

!git commit -m "test 2" # Save changes with a message

! git push Xxx

# Retrieve a file from git

## Find the commit hash

!git log –oneline (this will show all the changes and the hashes)

Here is an example (hash is in red)🡪

…

commit 13f9605fc6260e78e8282cf2bf3d31eb3d809a47

Author: James Manwell <manwell@umass.edu>

Date: Sun Feb 23 11:03:03 2025 -0500

….

## Checkout the file

!git checkout <hash>

Example🡪

!git checkout 13f9605fc6260e78e8282cf2bf3d31eb3d809a47

(can now run the earlier version)

## Go back to the latest file

!git checkout main

## Save earlier, checked out version

!git commit -m (Reverted app.py to an earlier version)

!git push