

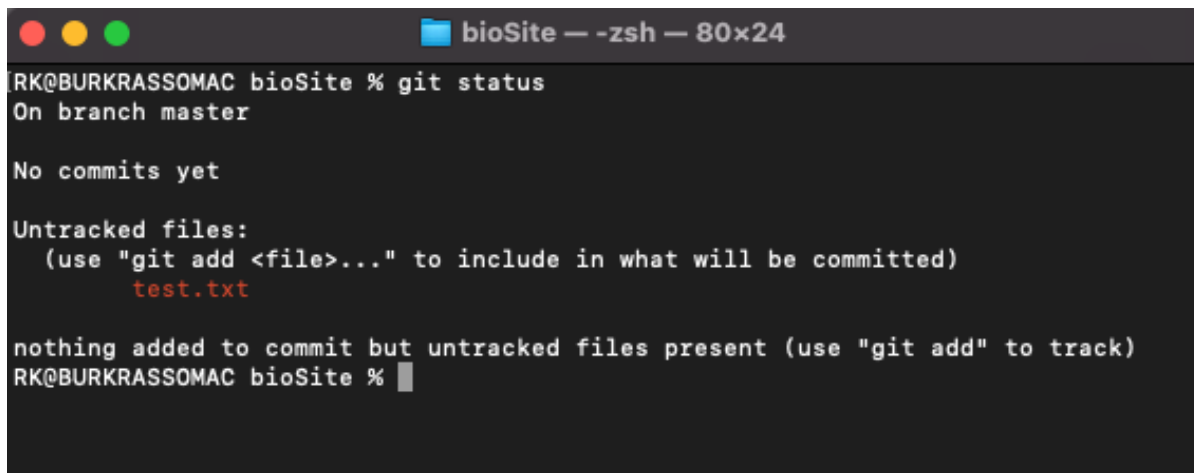
GitHub Stage, Commit, and Push

Stage code changes

- Open a new command prompt or terminal window
- Navigate to the directory where the repository is located
 - Hint: use the change directory command: `cd <folder_name>`
- Enter **git status**
 - Note: the first step is to always check the status of your repository to determine whether existing changes have been flagged by git. Changes that appear in red are ready for staging. Changes that appear in green have already been staged.

Something to consider: In this example the branch name is **master**. Your branch name may be different. Alternative names might include: main, prod, dev, etc. The name of the branch does not impact the steps in this document. Simply replace the branch name in these screenshots with whatever branch name you are using..

Exhibit A. git status

A terminal window titled 'bioSite - zsh - 80x24' showing the output of the 'git status' command. The output indicates that the user is on the 'master' branch, there are no commits yet, and there is one untracked file named 'test.txt'. It also provides instructions on how to use 'git add' to track the file.

```
bioSite % git status
On branch master

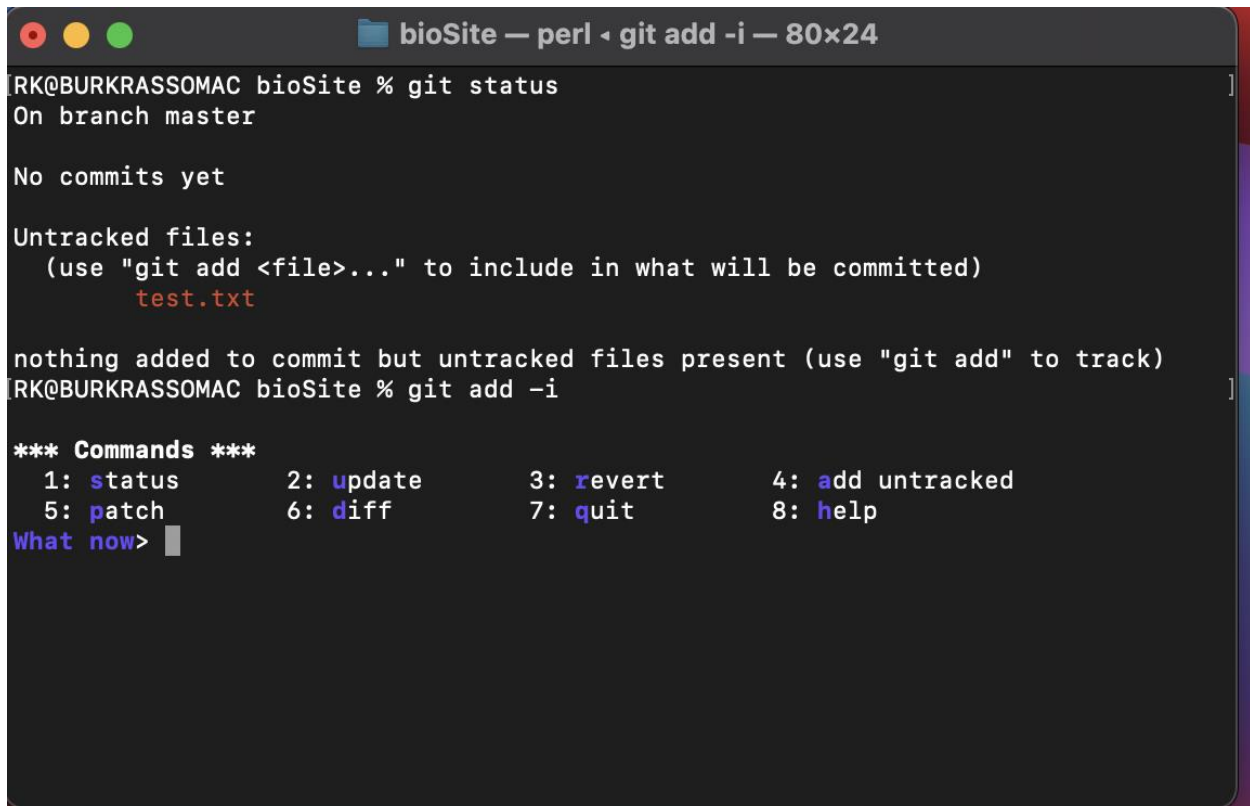
No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
       test.txt

nothing added to commit but untracked files present (use "git add" to track)
bioSite %
```

- Stage the changes
 - Enter **git add -i**
 - Choose option “4: add untracked” for new files

- Choose option “5: patch” for modified files
- Enter an “asterisk” (*), which selects all files
 - Optionally, you could select the individual files by entering the number to the right of the file
 - Enter **q** to exit the interactive window

Exhibit B. git add -i

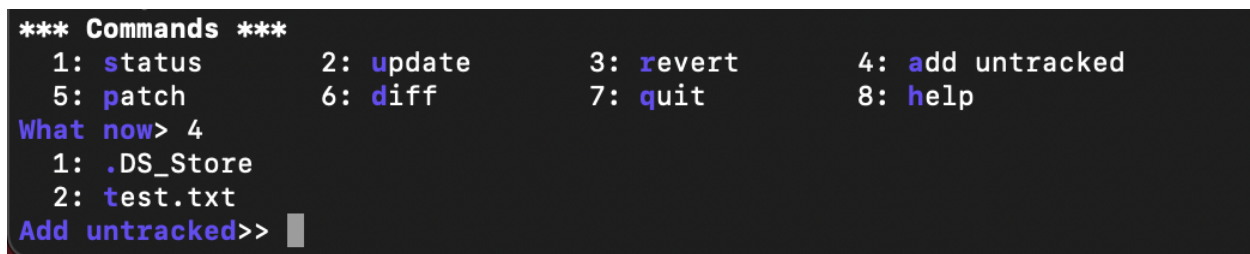
```
bioSite — perl ◀ git add -i — 80x24
RK@BURKRASSOMAC bioSite % git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
       test.txt

nothing added to commit but untracked files present (use "git add" to track)
RK@BURKRASSOMAC bioSite % git add -i

*** Commands ***
  1: status      2: update      3: revert      4: add untracked
  5: patch       6: diff        7: quit        8: help
What now> 
```

Exhibit C. add untracked

```
*** Commands ***
  1: status      2: update      3: revert      4: add untracked
  5: patch       6: diff        7: quit        8: help
What now> 4
  1: .DS_Store
  2: test.txt
Add untracked>> 
```

Exhibit D. select all files (*)

```
2: test.txt
Add untracked>> *
added 2 paths

*** Commands ***
 1: status      2: update      3: revert      4: add untracked
 5: patch       6: diff        7: quit        8: help
What now> █
```

Exhibit E. exit the interactive window

```
*** Commands ***
 1: status      2: update      3: revert      4: add untracked
 5: patch       6: diff        7: quit        8: help
What now> q
Bye.
RK@BURKRASSOMAC bioSite % █
```

Commit your work

- Enter **git commit -m "Initial commit."**
 - Note: the -m command allows you to add a message to the staged code/files. Always include a meaningful message when pushing your work to GitHub.

Exhibit F. git commit -m "Initial commit."

```
[RK@BURKRASSOMAC bioSite % git commit -m "Initial commit."
[master (root-commit) a4803ff] Initial commit.
2 files changed, 1 insertion(+)
create mode 100644 .DS_Store
create mode 100644 test.txt
RK@BURKRASSOMAC bioSite % █
```

Verify the commit

- Enter **git status** to verify the changes were committed

Exhibit G. git status to verify changes

```
RK@BURKRASSOMAC bioSite % git status
On branch master
Your branch is based on 'origin/master', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)

nothing to commit, working tree clean
RK@BURKRASSOMAC bioSite %
```

Push your work to GitHub

- Enter **git push -uv origin master**
 - Note: the branch name will either be named master or main. If you try pushing to master and it fails, try main

Exhibit H. git push -uv origin master

```
RK@BURKRASSOMAC bioSite % git push -uv origin master
Pushing to https://github.com/buwebdev/bioSite.git
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 501 bytes | 501.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
POST git-receive-pack (673 bytes)
To https://github.com/buwebdev/bioSite.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
updating local tracking ref 'refs/remotes/origin/master'
RK@BURKRASSOMAC bioSite %
```