Tracking changes

1. change directory

cd Desktop/planets

2. create a file

nano mars.txt

type out:

Cold and dry, but everything is my favorite color

3. check files in the directory

ls

it prints out:

mar.txt

4. check git status

git status

it prints out:

Untracked files:

mars.txt

5. ask git to keep track of this file

git add mars.txt

it prints:

No commits yet

Changes to be committed:

new file: mars.txt

6. commit a file

git commit -m "Start notes on Mars as a base"

it prints out:

1 file changed, 1 insertion(+)

7. check current git status

git status

it prints out:

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

7. check git history

git log

it prints out:

commit 4f6b638468976d98cbe9bc6db9c9362b658d9cdc (HEAD -> master)

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Date: Sat Feb 6 20:15:37 2021 -0800

8. edit the mars.txt file

nano mars.txt

Type out:

The two moons may be a problem for Wolfman

9. check git status

git status

it prints:

modified: mars.txt

10. look at changes to the mars.txt file

git diff

it prints:

**--- a/mars.txt**

**+++ b/mars.txt**

@@ -1 +1,2 @@

Cold and dry, but everything is my favorite color

+The two moons may be a problem for Wolfman

11. commit the file change again to git

git add mars.txt

git commit -m "Add concerns about effects of mars moons on Wolfman"

it prints out:

1 file changed, 1 insertion(+)

12. make another change to the file

nano mars.txt

type out:

But the Mummy will appreciate the lack of humidity

13. look at changes to the mars.txt file

git diff

it prints out:

**--- a/mars.txt**

**+++ b/mars.txt**

@@ -1,2 +1,3 @@

Cold and dry, but everything is my favorite color

The two moons may be a problem for Wolfman

+But the Mummy will appreciate the lack of humidity

14. commit the file

git add mars.txt

show the difference in the file

git diff

no output, because there’s no difference between ‘what’s been asked to save permanently’ and ‘what’s in the current directory.’

git diff --staged

it prints out:

**--- a/mars.txt**

**+++ b/mars.txt**

@@ -1,2 +1,3 @@

Cold and dry, but everything is my favorite color

The two moons may be a problem for Wolfman

+But the Mummy will appreciate the lack of humidity

git commit -m "Discuss concerns about Mars"

it prints out:

1 file changed, 1 insertion(+)

Check status

git status

check history

git log

it shows 3 commits

Quiz

**Question 1:** Which of the following commit messages would be most appropriate for the last commit made to mars.txt?

A. “Changes”

B. “Added line ‘But the Mummy will appreciate the lack of humidity’ to mars.txt”

C. “Discuss the effects of Mars’ climate on the Mummy” (**Correct**: short & descriptive)

**Question 2:** Which command(s) below would save the changes of myfile.txt to my local Git repository?

$ git add myfile.txt $ git commit -m "my recent changes"