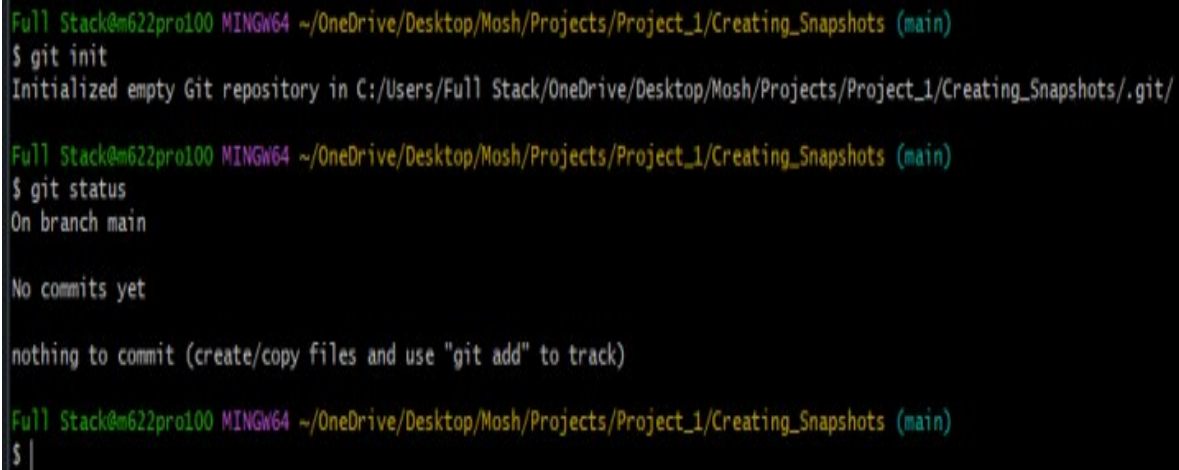


Student: Michael Proctor  
Lessons derived from: Code with Mosh  
Topic: GIT Procedures: Creating Snapshots  
Date: Feb 1, 2024

## Creating Snapshots

**\*\*\* Initialize a new repository. Add two files in your working directory.**



```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git init
Initialized empty Git repository in C:/Users/Full Stack/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots/.git/

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git status
On branch main

No commits yet

nothing to commit (create/copy files and use "git add" to track)

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ |
```

**\*\*\* View the status of the working directory and the staging area.**

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```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ touch text_one.txt text.two

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git status -s
?? text.two
?? text_one.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$
```

The two red marks means that these are two new files not yet added to the staging and working directory.

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**\*\*\* Stage both files**

**\*\*\* View the changes in the staging area.**

```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git add .

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git status -s
A  text.two
A  text_one.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$
```

The **A** means added to the Staging area.

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### \*\*\* Create a commit

```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git commit -m "Both files committed to repository."
[main (root-commit) 97d424c] Both files committed to repository.
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 text.two
 create mode 100644 text_one.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ !
```

### View the list of commits

Student: Michael Proctor  
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```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git log
commit 97d424c507a4d6c1ffe543f15060ff5ccb71a02c (HEAD -> main)
Author: Michael V Proctor <V18041965@hotmail.com>
Date: Thu Feb 1 13:22:41 2024 -0500

    Both files committed to repository.

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$
```

**View the content of the last commit**

Student: Michael Proctor  
Lessons derived from: Code with Mosh  
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Date: Feb 1, 2024

```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git log --oneline --reverse
97d424c (HEAD -> main) Both files committed to repository.

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git show 97d424c
commit 97d424c507a4d6c1ffe543f15060ff5ccb71a02c (HEAD -> main)
Author: Michael V Proctor <V18041965@hotmail.com>
Date: Thu Feb 1 13:22:41 2024 -0500

    Both files committed to repository.

diff --git a/text.two b/text.two
new file mode 100644
index 0000000..e69de29
diff --git a/text_one.txt b/text_one.txt
new file mode 100644
index 0000000..e69de29

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$
```

**\*\*\* Update one of the files. View the changes in the working directory (Modified file is "text\_one.txt")**

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```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ echo "The rain is coming soon" > text_one.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git status -s
M text_one.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git status
On branch main
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   text_one.txt

no changes added to commit (use "git add" and/or "git commit -a")

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$
```

**It's a non modified file and not in the work directory  
{text\_one.txt}**

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```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git add text_one.txt
warning: in the working copy of 'text_one.txt', LF will be replaced by CRLF the next time Git touches it

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git status -s
M  text_one.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$
```

**Its now a modified file (staging area)**

```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git commit -m "Modified file in the staging area now committed"
[main 04c0df3] Modified file in the staging area now committed
1 file changed, 1 insertion(+)
```

**File committed**



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Date: Feb 1, 2024

```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git log --oneline --reverse
97d424c Both files committed to repository.
04c0df3 (HEAD -> main) Modified file in the staging area now committed

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ :
```

## View the changes in the working directory

```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git log --oneline --reverse
97d424c Both files committed to repository.
04c0df3 (HEAD -> main) Modified file in the staging area now committed

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git show
commit 04c0df3ddaf7724212c3949b7262c48c7893a711 (HEAD -> main)
Author: Michael V Proctor <V18041965@hotmail.com>
Date: Thu Feb 1 13:45:11 2024 -0500

    Modified file in the staging area now committed

diff --git a/text_one.txt b/text_one.txt
index e69de29..b3ad39c 100644
--- a/text_one.txt
+++ b/text_one.txt
@@ -0,0 +1 @@
+The rain is coming soon

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ :
```

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```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git show 04c0df3
commit 04c0df3ddaf7724212c3949b7262c48c7893a711 (HEAD -> main)
Author: Michael V Proctor <V18041965@hotmail.com>
Date: Thu Feb 1 13:45:11 2024 -0500

    Modified file in the staging area now committed

diff --git a/text_one.txt b/text_one.txt
index e69de29..b3ad39c 100644
--- a/text_one.txt
+++ b/text_one.txt
@@ -0,0 +1 @@
+The rain is coming soon

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ !
```

**Commit Id:** 04c0df3ddaf7724212c3949b7262c48c7893a711

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## Un-stage the file...

```
Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git reset HEAD text_one.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git status -s

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ git status
On branch main
nothing to commit, working tree clean

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Mosh/Projects/Project_1/Creating_Snapshots (main)
$ .....
```