

Undoing Changes and Reverting Commits - Task 3

➤ Undo changes after modifying a tracked file

- Creating a new file:

```
C:\k\Presidio\Git\Task3>echo "This is line 1">newfile.txt
```

```
C:\k\Presidio\Git\Task3>git add newfile.txt
```

```
C:\k\Presidio\Git\Task3>git commit -m "Initial commit"
```

```
[master (root-commit) 2dd54d3] Initial commit
```

```
1 file changed, 1 insertion(+)  
create mode 100644 newfile.txt
```

```
C:\k\Presidio\Git\Task3>git status
```

```
On branch master
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
Task3.docx
```

```
sample1.txt
```

```
~$Task3.docx
```

- Making changes to the file:

```
C:\k\Presidio\Git\Task3>git status
```

```
On branch master
```

```
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: newfile.txt
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
Task3.docx
```

```
sample1.txt
```

```
~$Task3.docx
```

- Undo changes in the tracked file using "git restore":

```
C:\k\Presidio\Git\Task3>git restore newfile.txt
```

```
C:\k\Presidio\Git\Task3>git status
```

```
On branch master
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
Task3.docx
```

```
sample1.txt
```

```
~$Task3.docx
```

➤ Undoing a commit

- Adding a file, and committing it:

```
C:\k\Presidio\Git\Task3>git log --oneline  
bea6486 (HEAD -> master) A commit that will be undone
```

- Reverting the commit using “git revert”:

```
Revert "A commit that will be undone"  
  
This reverts commit bea6486fe3f903309793a528e55cb650abe904d5.  
  
# Please enter the commit message for your changes. Lines starting  
# with '#' will be ignored, and an empty message aborts the commit.  
#  
# On branch master  
# Changes to be committed:  
#       deleted:    sample2.txt  
#  
# Untracked files:  
#       Task3.docx  
#       sample1.txt  
#       ~$Task3.docx  
#       ~WRL0534.tmp  
#
```

➤ DIFFERENCES

git restore:

- Used to discard uncommitted changes/local modifications in the working directory.
- Does not create a new commit.
- Only affects uncommitted changes, reverting the file back to its last committed state.

git revert:

- Used to undo a committed change by creating a new commit that reverses the effects of a previous commit.
- Does not modify commit history.