

Installing & Setup of Git

 MINGW64:/e/Code/GitTutorials

```
avnish@Avnish MINGW64 /e/Code/GitTutorials
$ git config --global user.name "Avnish"

avnish@Avnish MINGW64 /e/Code/GitTutorials
$ git config --global user.email "avnishy84@gmail.com"

avnish@Avnish MINGW64 /e/Code/GitTutorials
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=Avnish
user.email=avnishy84@gmail.com
```

Folder Initialization & Basic Commands

```
avnish@Avnish MINGW64 /e/Code/GitTutorials
$ git config user.name
Avnish

avnish@Avnish MINGW64 /e/Code/GitTutorials
$ git config user.email
avnishy84@gmail.com

avnish@Avnish MINGW64 /e/Code/GitTutorials
$ git status
fatal: not a git repository (or any of the parent directories): .git

avnish@Avnish MINGW64 /e/Code/GitTutorials
$ git init
Initialized empty Git repository in E:/Code/GitTutorials/.git/

avnish@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git status
On branch master

No commits yet

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

add & commit Command

```
MINGW64:/e/Code/GitTutorials

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git add --a

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   1125.java
    new file:   App.js
    new file:   Assign1.class
    new file:   Assign1.java
    new file:   Ex.html
    new file:   ex.js
    new file:   main.css
    new file:   main.js
    new file:   new a2.txt
    new file:   new2.txt
    new file:   new222.java
    new file:   newfrm.css
    new file:   newfrm.html

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git commit -m "Initial Commit 1"
[master (root-commit) c38bd68] Initial Commit 1
13 files changed, 602 insertions(+)
create mode 100644 1125.java
create mode 100644 App.js
create mode 100644 Assign1.class
create mode 100644 Assign1.java
create mode 100644 Ex.html
create mode 100644 ex.js
create mode 100644 main.css
create mode 100644 main.js
create mode 100644 new a2.txt
create mode 100644 new2.txt
create mode 100644 new222.java
create mode 100644 newfrm.css
create mode 100644 newfrm.html

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git status
On branch master
nothing to commit, working tree clean
```

rm -rf .git (remove a file from a Git repository.)

```
avnish@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git commit -m "Chnages3"
[master 7ea9f87] Chnages3
1 file changed, 1 insertion(+)

avnish@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git status
On branch master
nothing to commit, working tree clean

avnish@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git log
commit 7ea9f87bc106b11ad4f45b1b60e13f885d71d72b (HEAD -> master)
Author: Avnish <avnishy84@gmail.com>
Date:   Fri Feb 25 14:21:29 2022 +0530

    Chnages3

commit e45ec4ad6c6bbe1488b87f3d3acb4c101e1d18a5
Author: Avnish <avnishy84@gmail.com>
Date:   Fri Feb 25 14:17:07 2022 +0530

    Changes in new2.txt Adding Some Add

commit c38bd68667f1e9bf94e6d5567d1c03e0856f576a
Author: Avnish <avnishy84@gmail.com>
Date:   Fri Feb 25 14:13:10 2022 +0530

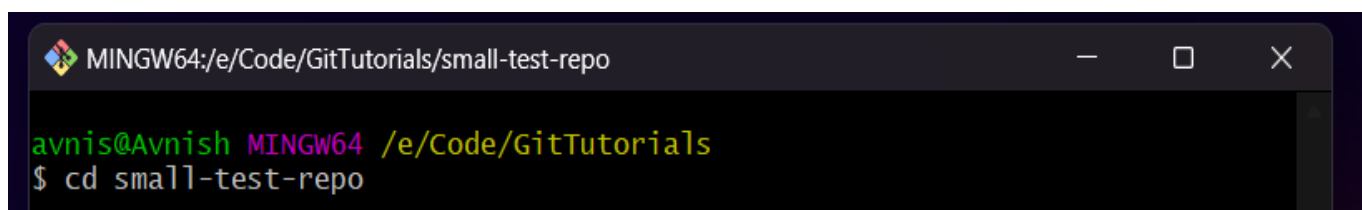
    Initial Commit 1

avnish@Avnish MINGW64 /e/Code/GitTutorials (master)
$ rm -rf .git

avnish@Avnish MINGW64 /e/Code/GitTutorials
$ git status
fatal: not a git repository (or any of the parent directories): .git

avnish@Avnish MINGW64 /e/Code/GitTutorials
$
```

Copying Small git Repo using clone command.



The screenshot shows a terminal window with the title bar "MINGW64:/e/Code/GitTutorials/small-test-repo". The terminal content shows the user navigating to the "small-test-repo" directory using the "cd" command.

```
avnish@Avnish MINGW64 /e/Code/GitTutorials
$ cd small-test-repo
```

```
avnis@Avnish MINGW64 /e/Code/GitTutorials/small-test-repo (master)
$ git status
On branch master
Your branch is up to date with 'origin/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:   EXAMPLE

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

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

avnis@Avnish MINGW64 /e/Code/GitTutorials/small-test-repo (master)
$ git add --a

avnis@Avnish MINGW64 /e/Code/GitTutorials/small-test-repo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   EXAMPLE
        new file:   EXAMPLE.bak

avnis@Avnish MINGW64 /e/Code/GitTutorials/small-test-repo (master)
$ git add --a

avnis@Avnish MINGW64 /e/Code/GitTutorials/small-test-repo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   EXAMPLE
        new file:   EXAMPLE.bak
```

```
avnis@Avnish MINGW64 /e/Code/GitTutorials/small-test-repo (master)
$ git log
commit ce1e0703402e989bedf03d5df535401340f54b42 (HEAD -> master, origin/master, origin/HEAD)
Author: Roberto Tyley <roberto.tyley@guardian.co.uk>
Date:   Fri Aug 26 22:22:55 2011 +0100

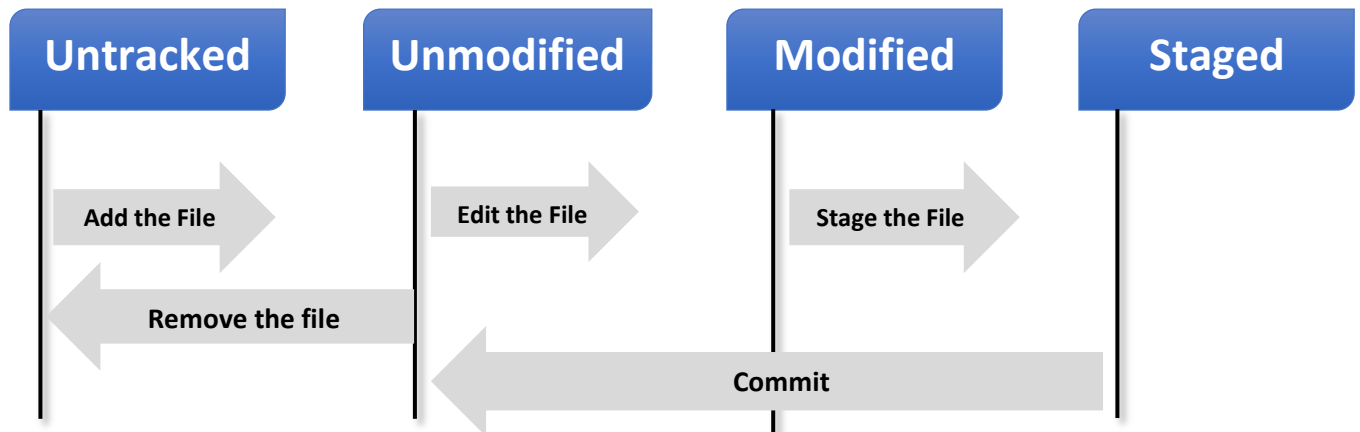
    commit1

commit 3974996807a9f596cf25ac3a714995c24bb97e2c
Author: Roberto Tyley <roberto.tyley@guardian.co.uk>
Date:   Fri Aug 26 22:18:53 2011 +0100

    commit0

avnis@Avnish MINGW64 /e/Code/GitTutorials/small-test-repo (master)
$
```

File Status Lifecycle



Example of Untracked Position

```
MINGW64:/e/Code/GitTutorials
avnis@Avnish MINGW64 /e/Code/GitTutorials
$ git status
fatal: not a git repository (or any of the parent directories): .git

avnis@Avnish MINGW64 /e/Code/GitTutorials
$ git init
Initialized empty Git repository in E:/Code/GitTutorials/.git/

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    new a12.txt
    new222.java
    newfrm.css
    newfrm.html

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

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$
```

Comes into Unmodified Status

```
MINGW64:/e/Code/GitTutorials
avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git add --a

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   new a12.txt
    new file:   new222.java
    new file:   newfrm.css
    new file:   newfrm.html
```

Modified

```
MINGW64:/e/Code/GitTutorials

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   new a12.txt
        new file:   new222.java
        new file:   newfrm.css
        new file:   newfrm.html

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:   new a12.txt

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
```

Staged

```
MINGW64:/e/Code/GitTutorials

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git add --a

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   new a12.txt
        new file:   new222.java
        new file:   newfrm.css
        new file:   newfrm.html

avnis@Avnish MINGW64 /e/Code/GitTutorials (master)
$ A
```

Creating git Branch

```
avnish@Avnish MINGW64 /e/Code/GitTutorials (master)
$ git checkout -b develop
Switched to a new branch 'develop'

avnish@Avnish MINGW64 /e/Code/GitTutorials (develop)
$ git status
On branch develop
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    newfrm.html

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







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

avnish@Avnish MINGW64 /e/Code/GitTutorials (develop)
$ git status
On branch develop
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    new222.java
        deleted:    newfrm.css
        deleted:    newfrm.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Static/
        css/
        html/
        js/

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

Make Changes in present working directory

Name	Date modified	Type	Size
 .git	25-02-2022 03:49 PM	File folder	
 css	25-02-2022 03:47 PM	File folder	
 html	25-02-2022 03:47 PM	File folder	
 js	25-02-2022 03:48 PM	File folder	
 Static	25-02-2022 03:47 PM	File folder	
 new a12	25-02-2022 03:28 PM	Text Document	1 KB

Switch to Master Branch

```
MINGW64:/e/Code/GitTutorials
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    new222.java
        deleted:    newfrm.css
        deleted:    newfrm.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Static/
        css/
        html/
        js/

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

avis@Avnish MINGW64 /e/Code/GitTutorials (develop)
$ git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'?
hint: Turn this message off by running
hint: "git config advice.addEmptyPathsSpec false"

avis@Avnish MINGW64 /e/Code/GitTutorials (develop)
$ git add --a

avis@Avnish MINGW64 /e/Code/GitTutorials (develop)
$ git status
On branch develop
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:    new222.java -> Static/new222.java
        renamed:    newfrm.css -> css/newfrm.css
        renamed:    newfrm.html -> html/newfrm.html
        new file:   js/new222.java

avis@Avnish MINGW64 /e/Code/GitTutorials (develop)
$ git commit -m "Restructred"
[develop dcae0dc] Restructred
 4 files changed, 95 insertions(+)
 rename new222.java => Static/new222.java (100%)
 rename newfrm.css => css/newfrm.css (100%)
 rename newfrm.html => html/newfrm.html (100%)
 create mode 100644 js/new222.java

avis@Avnish MINGW64 /e/Code/GitTutorials (develop)
$ git status
On branch develop
nothing to commit, working tree clean

avis@Avnish MINGW64 /e/Code/GitTutorials (develop)
$ git checkout master
Switched to branch 'master'

avis@Avnish MINGW64 /e/Code/GitTutorials (master)
$
```

This PC > Drive (E:) > Code > GitTutorials >					Search GitTutorials	
	Name	Date modified	Type	Size		
	.git	25-02-2022 03:54 PM	File folder			
	new a12	25-02-2022 03:28 PM	Text Document	1 KB		
	new222	25-02-2022 03:54 PM	Java Source File	2 KB		
	newfrm	25-02-2022 03:54 PM	CSS Source File	1 KB		
	newfrm	25-02-2022 03:54 PM	Chrome HTML Do...	3 KB		