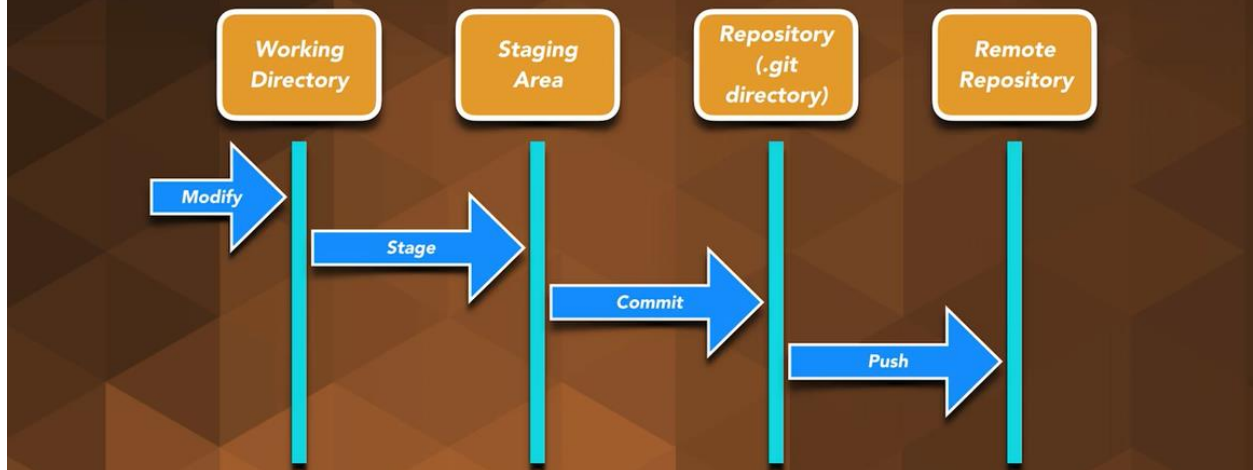
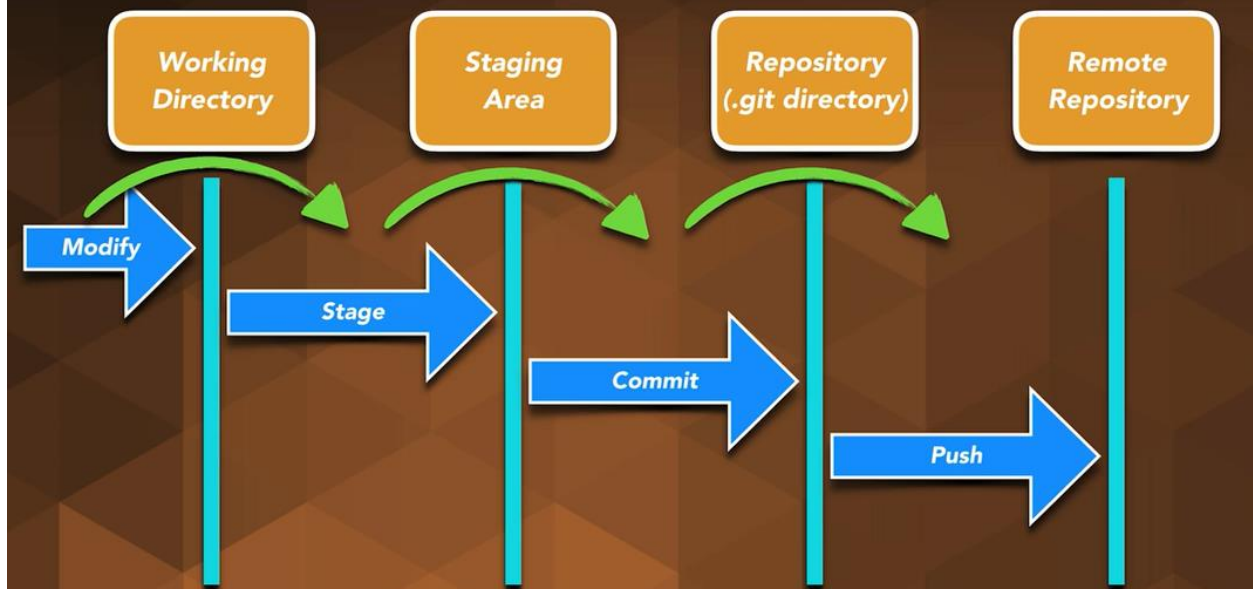


How to check commit history

In the diagram you can also see the remote repository where we push our committed changes in local repository. More on this in future videos in the course.



3 States of Git Artifact



```

Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$ ls
file1 file2

Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$ git log
commit 19dfcdceffd3e835fd406c25d3cf2a8d10fadb2b
Author: sivakethineni <sivakethineni2006@gmail.com>
Date: Fri Apr 13 15:56:59 2018 -0700

    gh

commit acef95940c7af5bb9d7fbf00bf65a728627be511
Author: sivakethineni <sivakethineni2006@gmail.com>
Date: Fri Apr 13 15:53:14 2018 -0700

    first commit

commit 4deaf01976f375953e9dc52211351921d0d93269
Author: sivakethineni <sivakethineni2006@gmail.com>
Date: Fri Apr 13 15:50:04 2018 -0700

    klcjklx

commit 7a92d539b4f32c5967b40e5f213d7a598ee2818e
Author: sivakethineni <sivakethineni2006@gmail.com>
Date: Fri Apr 13 15:47:36 2018 -0700

    jghg
: ...skipping...

```

git log

```

Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$ git log --oneline
19dfcdc gh
acef959 first commit
4deaf01 klcjklx
7a92d53 jghg
ecc6681 second comit
0174ef9 first commit at new branch
dd78f64 first commit

Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$ █

```

git log --oneline

```

Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$ git log --oneline file1
4deaf01 klcjklx
7a92d53 jghg
ecc6681 second comit
0174ef9 first commit at new branch
dd78f64 first commit

Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$ █

```

Specific about file commits

```
Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$ git log --oneline
19dfcdc gh
acef959 first commit
4deaf01 klcjklx
7a92d53 jghg
ecc6681 second comit
0174ef9 first commit at new branch
dd78f64 first commit

Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$ git log -n 3 --oneline
19dfcdc gh
acef959 first commit
4deaf01 klcjklx
```

```
Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$ git log ecc6681..19dfcdc --oneline
19dfcdc gh
acef959 first commit
4deaf01 klcjklx
7a92d53 jghg

Home@Welcome MINGW64 /c/gitbranches/testbranch (master|MERGING)
$
```

While doing commits how to check the difference between the files before committing with last commit status files.

```
Home@Welcome MINGW64 /c/gitrepos/Reset (master)
$ cat file1.sh
This is first version of code
This is second version of code

Home@Welcome MINGW64 /c/gitrepos/Reset (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   file1.sh

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

Home@Welcome MINGW64 /c/gitrepos/Reset (master)
$ git diff file1.sh
diff --git a/file1.sh b/file1.sh
index e1395d7..610faba 100644
--- a/file1.sh
+++ b/file1.sh
@@ -1,2 @@
 This is first version of code
+This is second version of code
```

This is how we are going to check the difference between file with last commit stage and with staging area stage.

So here if we want to continue to add file to staging area we can go with commit command or if we don't want to continue with new changes we can come back from staging area to unstage area using below checkout command

git checkout <filename> ----- > To discard changes in working tree.

If we want to check what are all changes have been done on one particular commit id we can use show command like below

git show <commit id>

```
$ git show b06f131
commit b06f131ea03545f744e9843fa5298ad7051765fe
Author: sivakethineni <sivakethineni2006@gmail.com>
Date: Mon May 28 21:50:26 2018 -0700

    This is first version of code

diff --git a/file1.sh b/file1.sh
new file mode 100644
index 0000000..e1395d7
--- /dev/null
+++ b/file1.sh
@@ -0,0 +1 @@
+This is first version of code
diff --git a/file2.sh b/file2.sh
new file mode 100644
index 0000000..e1395d7
--- /dev/null
+++ b/file2.sh
@@ -0,0 +1 @@
+This is first version of code
diff --git a/file3.sh b/file3.sh
new file mode 100644
index 0000000..e1395d7
--- /dev/null
+++ b/file3.sh
@@ -0,0 +1 @@
+This is first version of code
diff --git a/file4.sh b/file4.sh
new file mode 100644
index 0000000..e1395d7
--- /dev/null
+++ b/file4.sh
@@ -0,0 +1 @@
+This is first version of code
```