"GIT AND GITHUB"

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Version Control

Version Control is a kind of database. A version control system records the changes you make to your project's files and when you later take a look at an older snapshot (version), your VCS shows you exactly how it differed from the previous one.. This is what version control is about. Version control is independent of the kind of project / technology / framework you're working with.

Don't confuse VCS with a backup or a deployment system. You don't have to change or replace any other part of your tool chain when you start using version control.

The most basic building block of version control is a "repository". In Git, the repository is just a simple hidden folder named ".git" in the root directory of your project.

Why Use a Version Control System?

Collaboration

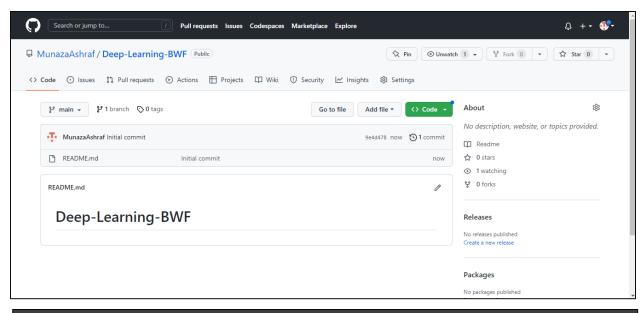
Storing Versions

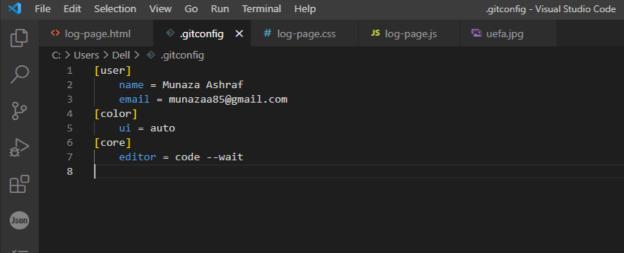
Restoring Previous Versions

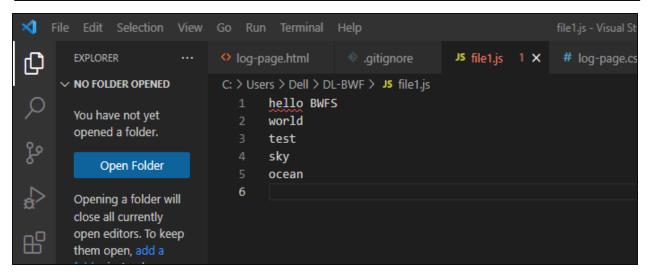
Understanding What Happened (Every time you save a new version of your project, your VCS requires you to provide a short description of what was changed. This helps you understand how your project evolved between version.)

Backup (every team member has a full-blown repository of the project on his disk - including the project's complete history. Should your beloved central server break down (and your backup drives fail), all you need for recovery is one of your teammates' local Git repository.)

Working







COMMANDS

```
Dell@DESKTOP-L7MCO2J MINGW64 ~
$ git config --global user.name "Munaza Ashraf"
Dell@DESKTOP-L7MCO2J MINGW64 ~
$ git config --global user.email munazaa85@gmail.com
Dell@DESKTOP-L7MCO2J MINGW64 ~
$ code
Dell@DESKTOP-L7MCO2J MINGW64 ~
Dell@DESKTOP-L7MCO2J MINGW64 ~
$ git config --global core.editor "code --wait"
Dell@DESKTOP-L7MCO2J MINGW64 ~
$ git config --global -e
Dell@DESKTOP-L7MCO2J MINGW64 ~
$ git config --global core.autocrlf true
Dell@DESKTOP-L7MCO2J MINGW64 ~
$ mkdir DL-BWF
Dell@DESKTOP-L7MCO2J MINGW64 ~
$ cd DL-BWF
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF
$ git init
Initialized empty Git repository in C:/Users/Dell/DL-BWF/.git/
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ 1s
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ ls -al
total 32
drwxr-xr-x 1 Dell 197121 0 Mar 16 19:29 ./
drwxr-xr-x 1 Dell 197121 0 Mar 16 19:28 ../
drwxr-xr-x 1 Dell 197121 0 Mar 16 19:29 .git/
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ open .git
bash: open: command not found
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ 1s -a
         .git/
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ cd .git
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF/.git (GIT_DIR!)
$ cd-
bash: cd-: command not found
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF/.git (GIT_DIR!)
/c/Users/Dell/DL-BWF
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo hello > file1.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo hello > file2.txt
```

```
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
No commits yet
Untracked files:
        "git add <file>..." to include in what will be committed)
         file1.txt
        file2.txt
nothing added to commit but untracked files present (use "git add" to track)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master) $ git add file1.txt file2.txt
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time
Git touches it
warning: in the working copy of 'file2.txt', LF will be replaced by CRLF the next time
Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ get status
bash: get: command not found
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:
                    file1.txt
                    file2.txt
        new file:
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo world >> file1.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
No commits yet
Changes to be committed: (use "git rm --cached <file>..." to unstage)
        new file: file1.txt
        new file:
                     file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add file1.txt
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time
Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
No commits yet
Changes to be committed:
   (use "git rm --cached <file>..." to unstage)
    new file: file1.txt
                   file2.txt
        new file:
```

```
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git commit
[master (root-commit) e1825e3] Initial commit.
 2 files changed, 3 insertions(+) create mode 100644 file1.txt
 create mode 100644 file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo test >> file1.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master) $ git commit -a im "Fix the bug that prevented users for signing up." fatal: paths 'im ...' with -a does not make sense
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master) $ git commit -a -m "Fix the bug." warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it
[master b994e3f] Fix the bug.
 1 file changed, 1 insertion(+)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ rm file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
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)
                           file2.txt
           deleted:
no changes added to commit (use "git add" and/or "git commit -a")
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git ls-files
file1.txt
file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git ls-files
file1.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master) $ git commit -m "Remove unused code."
[master 9f577ec] Remove unused code.
1 file changed, 1 deletion(-)
delete mode 100644 file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git rm file2.txt
fatal: pathspec 'file2.txt' did not match any files
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo yeahh > file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git rm file2.txt
fatal: pathspec 'file2.txt' did not match any files
```

```
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add file2.txt
warning: in the working copy of 'file2.txt', LF will be replaced by CRLF the next time
Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git rm file2.txt
error: the following file has changes staged in the index:
     file2.txt
(use --cached to keep the file, or -f to force removal)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git -f
unknown option: -f
             [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
[-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
[--config-env=<name>=<envvar>] <command> [<args>]
usage: git
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
bash: -f: command not found
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
Changes to be committed:

(use "git restore --staged <file>..." to unstage)
         new file: file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git rm file2.txt
error: the following file has changes staged in the index:
     file2.txt
(use --cached to keep the file, or -f to force removal)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git ls-files
file1.txt
file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ rm file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add file2.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git ls-files
file1.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git commit -m "Remved file"
On branch master
nothing to commit, working tree clean
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ 1s
```

```
file1.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ mv file1.txt main.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
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:
                      file1.txt
Untracked files:
  (use "git add <file>..." to include in what will be committed)
         main.is
no changes added to commit (use "git add" and/or "git commit -a")
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add file1.txt
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add main.js
warning: in the working copy of 'main.js', LF will be replaced by CRLF the next time
Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
                      file1.txt -> main.js
         renamed:
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git mv main.js file1.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git commit -m "Refactor code"
[master 7aa9658] Refactor code
1 file changed, 0 insertions(+), 0 deletions(-)
rename file1.txt => file1.js (100%)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ mkdir logs
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo hello >> logs/dev.log
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo logs/ > .gitignore
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ code .gitignore
```

```
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
Untracked files:
   (use "git add <file>..." to include in what will be committed)
          .gitignore
nothing added to commit but untracked files present (use "git add" to track)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add .gitignore
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next
time Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master) $ git commit -m "Add gitignore"
[master 3923062] Add gitignore
1 file changed, 3 insertions(+)
create mode 100644 .gitignore
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ mkdir bin
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo hello > bin/app.bin
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
Untracked files:
         "git add <file>..." to include in what will be committed)
  (use
nothing added to commit but untracked files present (use "git add" to track)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add .
warning: in the working copy of 'bin/app.bin', LF will be replaced by CRLF the next
time Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master) $ git commit -m "Add bin." [master 6191d28] Add bin.
 1 file changed, 1 insertion(+)
 create mode 100644 bin/app.bin
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ code .gitignore
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ 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
                                     to discard changes in working directory)
         modified:
                        .gitignore
no changes added to commit (use "git add" and/or "git commit -a")
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add .
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next
time Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master) $ git commit -m "Include bin/ in gitignore." [master 92c2bb0] Include bin/ in gitignore.
 1 file changed, 1 insertion(+)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo helloworld > bin/aap.bin
```

```
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
nothing to commit, working tree clean
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo helloworld > bin/app.bin
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ 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:
                   bin/app.bin
no changes added to commit (use "git add" and/or "git commit -a")
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git ls-files
.gitignore
bin/app.bin
file1.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git rm -h
usage: git rm [-f | --force] [-n] [-r] [--cached] [--ignore-unmatch]
                --quiet] [--pathspec-from-file=<file> [--pathspec-file-nul]]
               [--] [<pathspec>...]
    -n, --dry-run
-q, --quiet
                            dry run
                            do_not list removed files
    --cached
                            only remove from the index
    -f, --force
                            override the up-to-date check
                            allow recursive removal
    --ignore-unmatch
                            exit with a zero status even if nothing matched
    --sparse
                            allow updating entries outside of the sparse-checkout cone
    --pathspec-from-file <file>
                            read pathspec from file
    --pathspec-file-nul
                            with --pathspec-from-file, pathspec elements are separated
with NUL character
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git rm --cached bin/
fatal: not removing 'bin/' recursively without -r
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git rm -h
usage: git rm [-f \mid --force] [-n] [-r] [--cached] [--ignore-unmatch]
                --quiet] [--pathspec-from-file=<file> [--pathspec-file-nul]]
               [--] [<pathspec>...]
    -n, --dry-run
-q, --quiet
                            dry run
                            do not list removed files
    --cached
                            only remove from the index
    -f, --force
                            override the up-to-date check
                            allow recursive removal
    -r
    --ignore-unmatch
                            exit with a zero status even if nothing matched
    --sparse
                            allow updating entries outside of the sparse-checkout cone
    --pathspec-from-file <file>
                            read pathspec from file
                            with --pathspec-from-file, pathspec elements are separated
    --pathspec-file-nul
with NUL character
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
```

```
$ git rm --cached -r bin/
rm 'bin/app.bin'
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git ls-files
 .gĩtignore
file1.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
Changes to be committed:

(use "git restore --staged <file>..." to unstage)

deleted: bin/app.bin
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git commit -m "Remoe the bin directory that was accidentally committed."
[master 4c4678e] Remoe the bin directory that was accidentally committed.
1 file changed, 1 deletion(-)
 delete mode 100644 bin/app.bin
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo test > bin/app.bin
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status
On branch master
nothing to commit, working tree clean
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status -s
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo sky >> file1.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo sky > file2.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ 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: file1.js
Untracked files:
         "git add <file>..." to include in what will be committed)
   (use
no changes added to commit (use "git add" and/or "git commit -a")
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status -s
M file1.js
?? file2.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add file1.js
warning: in the working copy of 'file1.js', LF will be replaced by CRLF the next time
Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status -s
M file1.js
?? file2.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ echo ocean >> file1.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
```

```
$ git status -s
MM file1.js
?? file2.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add file1.js
warning: in the working copy of 'file1.js', LF will be replaced by CRLF the next time
Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status -s
M file1.js
?? file2.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git add file2.js
warning: in the working copy of 'file2.js', LF will be replaced by CRLF the next time
Git touches it
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status -s
M file1.js
A file2.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git diff --staged
diff --git a/file1.js b/file1.js
index badfb70..47c3216 100644
--- a/file1.js
+++ b/file1.js
@@ -1,3 +1,5 @@
 hello
 world
 test
+sky
+ocean
diff --git a/file2.js b/file2.js
new file mode 100644
index 0000000..f5e95e7
--- /dev/null
+++ b/file2.js
@@ -0,0 +1 @
+sky
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git diff
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git_status -s
M file1.js
A file2.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ code file1.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git status -s
MM file1.js
A file2.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git diff
warning: in the working copy of 'file1.js', LF will be replaced by CRLF the next time Git touches it diff --git a/file1.js b/file1.js index 47c3216..1646bc2 100644
--- a/file1.js
+++ b/file1.js
@@ -1,4 +1,4 @@
-hello
+hello BWFS
 world
```

```
test
 sky
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git log
commit 4c4678ec865de19320d61614a5342e1d031f7adf (HEAD -> master)
Author: Munaza Ashraf <munazaa85@gmail.com>
Date: Thu Mar 16 20:14:29 2023 +0500
     Remoe the bin directory that was accidentally committed.
commit 92c2bb011abaf97c03930a25bb2d99129a0bfb3d
Author: Munaza Ashraf <munazaa85@gmail.com>
Date: Thu Mar 16 20:10:45 2023 +0500
     Include bin/ in gitignore.
commit 6191d28295d5148f3022f548fed892d372d7bea5
Author: Munaza Ashraf <munazaa85@gmail.com>
Date: Thu Mar 16 20:08:21 2023 +0500
     Add bin.
commit 39230626bb2f5c625de9e727be21c6cd27b8ec4e
Author: Munaza Ashraf <munazaa85@gmail.com>
         Thu Mar 16 20:05:58 2023 +0500
     Add gitignore
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git log --oneline
                   master) Remoe the bin directory that was accidentally committed.
92c2bb0 Include bin/ in gitignore.
6191d28 Add bin.
3923062 Add gitignore
7aa9658 Refactor code
9f577ec Remove unused code.
b994e3f Fix the bug.
e1825e3 Initial commit.
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git log --oneline --reverse
e1825e3 Initial commit.
b994e3f Fix the bug.
9f577ec Remove unused code.
7aa9658 Refactor code
3923062 Add gitignore
6191d28 Add bin.
92c2bb0 Include bin/ in gitignore.
4c4678e (HEAD -> master) Remoe the bin directory that was accidentally committed.
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git show ^C
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git show 92c2bb0
commit 92c2bb011abaf97c03930a25bb2d99129a0bfb3d
Author: Munaza Ashraf <munazaa85@gmail.com>
         Thu Mar 16 20:10:45 2023 +0500
Date:
     Include bin/ in gitignore.
diff --git a/.gitignore b/.gitignore index b35834d..de80a7b 100644
--- a/.gitignore
+++ b/.gitignore
@@ -1,3 +1,4 @@
logs/
 main.log
 *.log
+bin/
```

```
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git show HEAD~2
commit 6191d28295d5148f3022f548fed892d372d7bea5
Author: Munaza Ashraf <munazaa85@gmail.com>
         Thu Mar 16 20:08:21 2023 +0500
Date:
    Add bin.
diff --git a/bin/app.bin b/bin/app.bin new file mode 100644
index 0000000..ce01362
--- /dev/null
+++ b/bin/app.bin
@@ -0,0 +1 @@
+hello
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git show HEAD~1:.gitignore
logs/
main.log
*.log
bin/
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git show HEAD
commit 4c4678ec865de19320d61614a5342e1d031f7adf (HEAD -> master)
Author: Munaza Ashraf <munazaa85@gmail.com>
Date: Thu Mar 16 20:14:29 2023 +0500
    Remoe the bin directory that was accidentally committed.
diff --git_a/bin/app.bin b/bin/app.bin
deleted file mode 100644 index ce01362..0000000
--- a/bin/app.bin
+++ /dev/null
@@ -1 +0,0 @@
-hello
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ ait 1s-tree
usage: git ls-tree [<options>] <tree-ish> [<path>...]
                             only show trees
    -d
                             recurse into subtrees
    -r
    -t
                             show trees when recursing
                             terminate entries with NUL byte
                             include object size
    -1, --long
                             list only filenames
list only filenames
    --name-only
    --name-status
    --object-only
                             list only objects
    --full-name
                             use full path names
     --full-tree
                             list entire tree; not just current directory (implies --
full-name)
                             format to use for the output
    --format <format>
    --abbrev[=<n>]
                             use <n> digits to display object names
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git ls-tree HEAD~1
100644 blob de80a7b9265aa3e11b1a8804a3c62a9492a0e23d
                                                               .gitignore
040000 tree 64629cd51ef4a65a9d9cb9e656e1f46e07e1357f
                                                               bin
100644 blob badfb70fd8b1725682b26674f7b2882e94078579
                                                               file1.js
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
$ git show 64629
tree 64629
app.bin
Dell@DESKTOP-L7MCO2J MINGW64 ~/DL-BWF (master)
```