Git Branch Control

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```
MINGW64:/f/gittest

user@TorAleksander MINGW64 /f
$ mkdir gittest

user@TorAleksander MINGW64 /f
$ cd gittest

user@TorAleksander MINGW64 /f/gittest
$ git init
Initialized empty Git repository in F:/gittest/.git/
user@TorAleksander MINGW64 /f/gittest (master)
$ vi index.html
```

```
MINGW64:/f/gittest
user@TorAleksander MINGW64 /f/gittest (master)
$ git add index.html
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory
user@TorAleksander MINGW64 /f/gittest (master)
$ git commit -am "Add Hello HTML"
[master (root-commit) 8f2b763] Add Hello HTML
1 file changed, 5 insertions(+)
create mode 100644 index.html
user@TorAleksander MINGW64 /f/gittest (master)
$ |
```

```
MINGW6
user@TorAleksander MINGW64 /f/gittest (master)
$ vi index.html |
```

```
MINGW64:/f/gittest
user@TorAleksander MINGW64 /f/gittest (master)
$ vi index.html
user@TorAleksander MINGW64 /f/gittest (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: index.html

no changes added to commit (use "git add" and/or "git commit -a")
user@TorAleksander MINGW64 /f/gittest (master)
$ |
```

```
MINGW64:/f/gittest
user@TorAleksander MINGW64 /f/gittest (master)
$ git add index.html
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory
user@TorAleksander MINGW64 /f/gittest (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified: index.html
user@TorAleksander MINGW64 /f/gittest (master)
$ git commit -am "add <head> and <title>"
[master 25cf362] add <head> and <title>
1 file changed, 3 insertions(+)
user@TorAleksander MINGW64 /f/gittest (master)
```

```
MINGW64:/f/gittest
user@TorAleksander MINGW64 /f/gittest (master)
$ git log
commit 25cf36228acbd98c3aa2a6210b49404d80550cfa (HEAD -> master)
Author: silenc3502 <gcccompil3r@gmail.com>
Date: Wed Dec 11 01:51:07 2019 +0900

    add <head> and <title>

commit 8f2b763b03682ac2ac16580c1f43b554d8457204
Author: silenc3502 <gcccompil3r@gmail.com>
Date: Wed Dec 11 01:46:14 2019 +0900

    Add Hello HTML

user@TorAleksander MINGW64 /f/gittest (master)
$ |
```

```
MINGW6
user@TorAleksander MINGW64 /f/gittest (master)
$ git branch branchtest master
user@TorAleksander MINGW64 /f/gittest (master)
$ vi index.html
```

```
MINGW64:/f/gittest
user@TorAleksander MINGW64 /f/gittest (master)
$ git commit -am "Add href"
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory
[master 98026c8] Add href
1 file changed, 3 insertions(+)

user@TorAleksander MINGW64 /f/gittest (master)
$ git checkout branchtest
Switched to branch 'branchtest'

user@TorAleksander MINGW64 /f/gittest (branchtest)
$ |
```

```
MINGW64:/f/gittest
user@TorAleksander MINGW64 /f/gittest (branchtest)
$ vi index.html |
```

```
MINGW64:/f/
user@TorAleksander MINGW64 /f/gittest (branchtest)
$ vi index.html

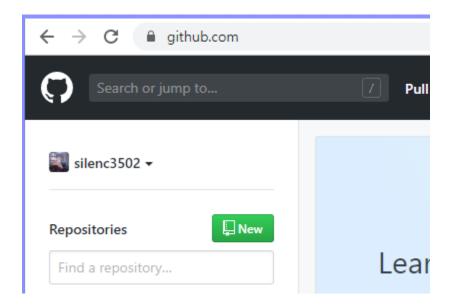
user@TorAleksander MINGW64 /f/gittest (branchtest)
$ git commit -am "Add Branch Content"
[branchtest 6cf35b1] Add Branch Content
1 file changed, 1 insertion(+)

user@TorAleksander MINGW64 /f/gittest (branchtest)
$ |
```

```
MINGW64:/f/
user@TorAleksander MINGW64 /f/gittest (branchtest)
$ git tag 1.0 branchtest
user@TorAleksander MINGW64 /f/gittest (branchtest)
$ git tag
1.0
user@TorAleksander MINGW64 /f/gittest (branchtest)
$ |
```

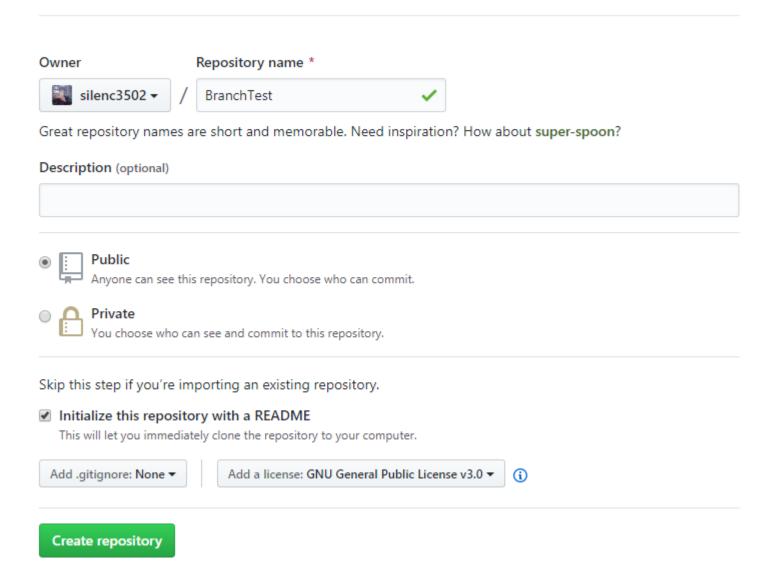
```
MINGW64:/f/gittest
user@TorAleksander MINGW64 /f/gittest (branchtest)
$ git checkout master
Switched to branch 'master'
user@TorAleksander MINGW64 /f/gittest (master)
$ git rebase branchtest
First, rewinding head to replay your work on top of it...
Applying: Add href
user@TorAleksander MINGW64 /f/gittest (master)
$ |
```

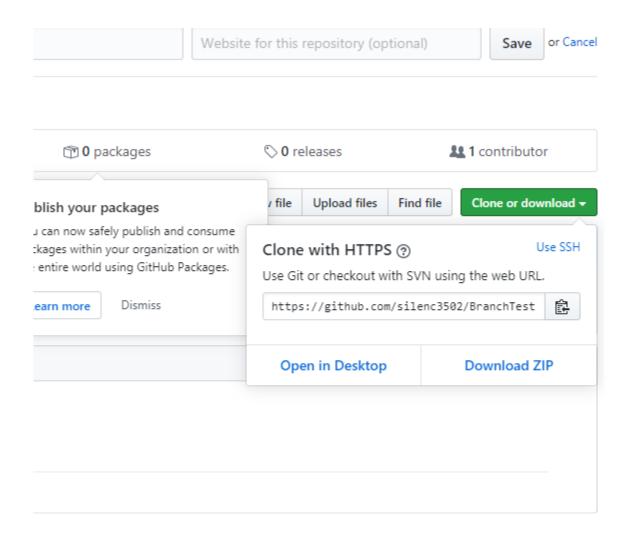
```
MINGW6
user@TorAleksander MINGW64 /f/gittest (master)
$ git branch -d branchtest
Deleted branch branchtest (was 6cf35b1).
user@TorAleksander MINGW64 /f/gittest (master)
$ |
```



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.





```
MINGW64:/f/gittest

user@TorAleksander MINGW64 /f/gittest (master)
$ git remote add origin https://github.com/silenc3502/BranchTest.git

user@TorAleksander MINGW64 /f/gittest (master)
$ git remote -v
origin https://github.com/silenc3502/BranchTest.git (fetch)
origin https://github.com/silenc3502/BranchTest.git (push)

user@TorAleksander MINGW64 /f/gittest (master)
$ git push origin master
```

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```
MINGW64:/f/gittest
user@TorAleksander MINGW64 /f/gittest (master)
$ git pull origin master
warning: no common commits
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), done.
From https://github.com/silenc3502/BranchTest
* branch
                               -> FETCH_HEAD
                    master
* [new branch]
                    master
                               -> origin/master
fatal: refusing to merge unrelated histories
user@TorAleksander MINGW64 /f/gittest (master)
$ git push origin master
To https://github.com/silenc3502/BranchTest.git
                    master -> master (non-fast-forward)
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
user@TorAleksander MINGW64 /f/gittest (master)
```

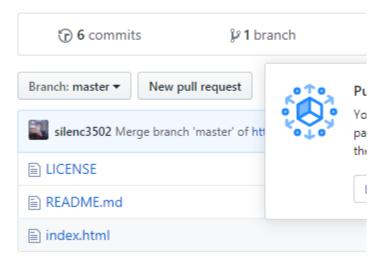
```
user@TorAleksander MINGW64 /f/gittest (master)
$ git push origin master
To https://github.com/silenc3502/BranchTest.git
                   master -> master (non-fast-forward)
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
user@TorAleksander MINGW64 /f/gittest (master)
$ git pull origin master --allow-unrelated-histories
From https://github.com/silenc3502/BranchTest
 * branch
                   master
                             -> FETCH_HEAD
Merge made by the 'recursive' strategy.
 LICENSE
          README.md | 1 +
2 files changed, 675 insertions(+)
 create mode 100644 LICENSE
 create mode 100644 README.md
user@TorAleksander MINGW64 /f/gittest (master)
$ 1s
index.html LICENSE README.md
user@TorAleksander MINGW64 /f/gittest (master)
```

```
user@TorAleksander MINGW64 /f/gittest (master)
$ git push --set-upstream origin master
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (14/14), 1.44 KiB | 1.44 MiB/s, done.
Total 14 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/silenc3502/BranchTest.git
    dcbef90..ddae906 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.

user@TorAleksander MINGW64 /f/gittest (master)
$ |
```

No description, website, or topics provided.

Manage topics



```
MINGW64:/f/
user@TorAleksander MINGW64 /f/gittest (master)
$ git branch -m master proj_master

user@TorAleksander MINGW64 /f/gittest (proj_master)
$ git branch
# proj_master

user@TorAleksander MINGW64 /f/gittest (proj_master)
$ git branch -m proj_master master

user@TorAleksander MINGW64 /f/gittest (master)
$ git branch
# master

user@TorAleksander MINGW64 /f/gittest (master)
$ git branch
# master
```

```
wser@TorAleksander MINGW64 /f/gittest (master)
$ git branch new_branch
user@TorAleksander MINGW64 /f/gittest (master)
$ git branch
# master
new_branch
user@TorAleksander MINGW64 /f/gittest (master)
$ git checkout new_branch
Switched to branch 'new_branch'
user@TorAleksander MINGW64 /f/gittest (new_branch)
$ git branch
master
# new_branch
user@TorAleksander MINGW64 /f/gittest (new_branch)
$ git branch
user@TorAleksander MINGW64 /f/gittest (new_branch)
$ |
```

```
MINGW64:/f/
user@TorAleksander MINGW64 /f/gittest (new_branch)
$ git checkout -b alternate master
Switched to a new branch 'alternate'
user@TorAleksander MINGW64 /f/gittest (alternate)
$ git branch
# alternate
master
new_branch
user@TorAleksander MINGW64 /f/gittest (alternate)
$ |
```

```
user@TorAleksander MINGW64 /f/gittest (alternate)
$ vi test.txt
user@TorAleksander MINGW64 /f/gittest (alternate)
$ git add test.txt
warning: LF will be replaced by CRLF in test.txt.
The file will have its original line endings in your working directory
user@TorAleksander MINGW64 /f/gittest (alternate)
$ git commit -m "Add Test Text"
[alternate 9834e8a] Add Test Text
1 file changed, 1 insertion(+)
 create mode 100644 test.txt
user@TorAleksander MINGW64 /f/gittest (alternate)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
user@TorAleksander MINGW64 /f/gittest (master)
$ git merge alternate
Updating ddae906..9834e8a
Fast-forward
test.txt | 1 +
1 file changed, 1 insertion(+)
 create mode 100644 test.txt
user@TorAleksander MINGW64 /f/gittest (master)
```

```
MINGW64:/f/gittest
user@TorAleksander MINGW64 /f/gittest (master)
$ git status
On branch ma<u>ste</u>r
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
nothing to commit, working tree clean
user@TorAleksander MINGW64 /f/gittest (master)
$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 275 bytes | 275.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/silenc3502/BranchTest.git
   ddae906..9834e8a master -> master
user@TorAleksander MINGW64 /f/gittest (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean
user@TorAleksander MINGW64 /f/gittest (master)
```