

git/github - Resources

- github.com
- git-scm.com
- git-scm.com/book/en/v2/Getting-Started-About-Version-Control
- guides.github.com/activities/hello-world

git/github - simple versioning

git/github - Creating Repo in github

Owner



nlabrador ▾

Repository name

/ demo ✓

Great repository names are short and memorable. Need inspiration? How about **furry-funicular**.

Description (optional)



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.


Add .gitignore: **None** ▾

Add a license: **None** ▾



Create repository

git/github - Creating Repo in github

 nlabrador / demo

Unwatch ▾ 1

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<> Code

🔔 Issues 0

🔗 Pull requests 0

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📊 Graphs

⚙️ Settings

No description or website provided. Edit

📦 1 commit

🌿 1 branch

📦 0 releases

👤 1 contributor

Branch: master ▾


New pull request

Create new file


Upload files

Find file

Clone or download ▾


 nlabrador Initial commit

Latest commit f9bd248 just now

 README.md

Initial commit

just now

 README.md

demo

git commands - basic

- git clone
- git status
- git add
- git commit
- git push
- git pull
- git log
- git merge
- git checkout

```
Ninos-MacBook-Pro:~ nlabrador$ git clone git@github.com:nlabrador/demo.git demo1
Cloning into 'demo1'...
remote: Counting objects: 3, done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
Ninos-MacBook-Pro:~ nlabrador$ git clone git@github.com:nlabrador/demo.git demo2
Cloning into 'demo2'...
remote: Counting objects: 3, done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
Ninos-MacBook-Pro:~ nlabrador$ cd demo1
Ninos-MacBook-Pro:demo1 nlabrador$ pwd
/Users/nlabrador/demo1
Ninos-MacBook-Pro:demo1 nlabrador$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working tree clean
Ninos-MacBook-Pro:demo1 nlabrador$ cd ../demo2
Ninos-MacBook-Pro:demo2 nlabrador$ pwd
/Users/nlabrador/demo2
Ninos-MacBook-Pro:demo2 nlabrador$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working tree clean
Ninos-MacBook-Pro:demo2 nlabrador$
```

```
Ninos-MacBook-Pro:demo1 nlabrador$ pwd
```

```
/Users/nlabrador/demo1
```

```
Ninos-MacBook-Pro:demo1 nlabrador$ vim README.md
```

```
Ninos-MacBook-Pro:demo1 nlabrador$ 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 checkout -- <file>..." to discard changes in working directory)
```

```
    modified:   README.md
```

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

```
Ninos-MacBook-Pro:demo1 nlabrador$ █
```

git commands - add



demo1 — -ba

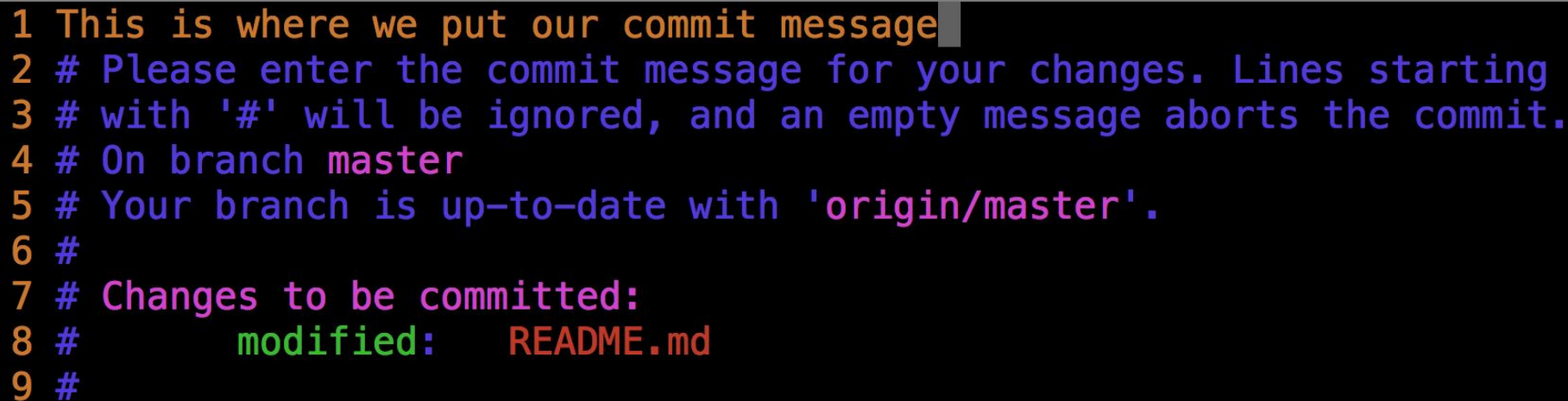
```
Ninos-MacBook-Pro:demo1 nlabrador$ git add README.md
Ninos-MacBook-Pro:demo1 nlabrador$ git status

On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   README.md

Ninos-MacBook-Pro:demo1 nlabrador$
```


git commands - commit

A terminal window with a title bar showing 'demo1 — vi git commit — 104x28'. The terminal content shows a git commit message being entered. Line 1 is the commit message 'This is where we put our commit message'. Lines 2-6 are comments explaining the commit process. Line 7 shows the files to be committed. Line 8 shows the file 'README.md' as modified. Line 9 is an empty line. The terminal has a dark background with colored text for different parts of the message.

```
1 This is where we put our commit message
2 # Please enter the commit message for your changes. Lines starting
3 # with '#' will be ignored, and an empty message aborts the commit.
4 # On branch master
5 # Your branch is up-to-date with 'origin/master'.
6 #
7 # Changes to be committed:
8 #   modified:   README.md
9 #
```

```
Ninos-MacBook-Pro:demo1 nlabrador$ git commit
[master 0b3e597] This is where we put our commit message
1 file changed, 2 insertions(+), 1 deletion(-)
Ninos-MacBook-Pro:demo1 nlabrador$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
nothing to commit, working tree clean
Ninos-MacBook-Pro:demo1 nlabrador$
```

git commands - log

demo1 — -bash — 104x28

```
Ninos-MacBook-Pro:demo1 nlabrador$ git log
commit 0b3e597ba6e72a2b1eb28d1f71d942a0ef648713
Author: Nino Labrador <nino.labrador@codingaveue.com>
Date: Fri Jan 13 07:58:55 2017 +0800
```


This is where we put our commit message

```
commit f9bd24804f47f327972fede2eb0f3ff45fb4ea25
Author: Nino Anthony Labrador <nino.labrador@codingavenue.com>
Date: Thu Jan 12 23:15:14 2017 +0800
```

Initial commit

```
Ninos-MacBook-Pro:demo1 nlabrador$
```

git commands - push



demo1 — -bash — 104

```
Ninos-MacBook-Pro:demo1 nlabrador$ git push origin master
Counting objects: 3, done.
Writing objects: 100% (3/3), 296 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To github.com:nlabrador/demo.git
    f9bd248..0b3e597  master -> master
Ninos-MacBook-Pro:demo1 nlabrador$
```

nlabrador / demo

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

This is where we put our commit message

Browse files

master

Nino Labrador committed 6 hours ago 1 parent f9bd248 commit 0b3e597ba6e72a2b1eb28d1f71d942a0ef648713

Showing 1 changed file with 2 additions and 1 deletion.

Unified Split

3 README.md

<> View

```
... @@ -1,2 @@
1 -# demo
1 +# demo
2 +Change from demo1 clone
```

0 comments on commit 0b3e597



This repository

Search

[Pull requests](#) [Issues](#) [Gist](#)



[nlabrador](#) / [demo](#)

Unwatch ▾

1

★ Star

0

Fork

0

Code

Issues 0

Pull requests 0

Projects 0

Wiki

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Graphs

Settings

Branch: master ▾

[demo](#) / [README.md](#)

Find file

Copy path



Nino Labrador This is where we put our commit message

0b3e597 6 hours ago

1 contributor

3 lines (2 sloc) | 31 Bytes

Raw

Blame


History



demo


Change from demo1 clone

git commands - pull



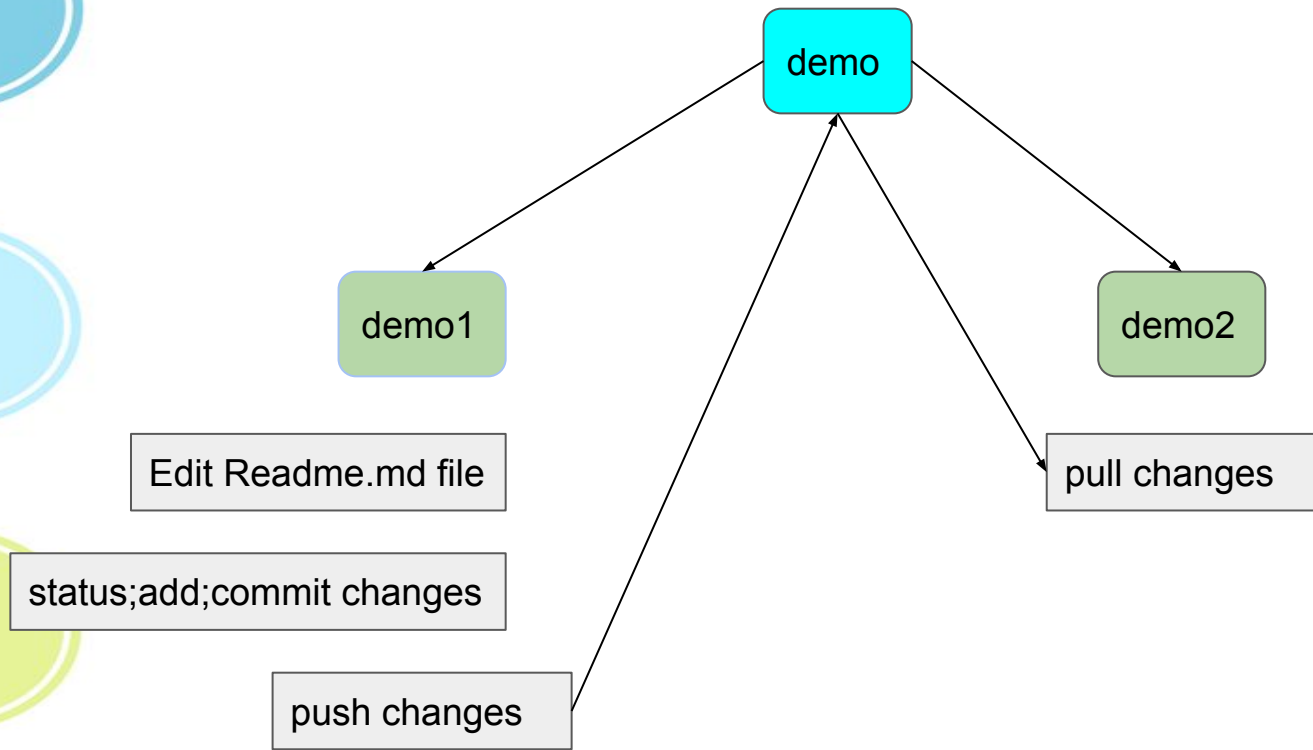
A terminal window with a macOS-style title bar. The title bar has three colored window control buttons (red, yellow, green) on the left and a text label 'demo2 — -bash — 104x28' on the right. The terminal content shows the execution of the 'git pull' command, which updates the local repository from the remote. It shows that 3 objects were counted, 3 were reused, and 100% of objects were unpacked. The pull is from 'github.com:nlabrador/demo' and results in a fast-forward update of the 'master' branch from commit 'f9bd248' to '0b3e597'. A diff for 'README.md' is shown with 3 changes (2 insertions, 1 deletion). The prompt returns to 'Ninos-MacBook-Pro:demo2 nlabrador\$'.

```
Ninos-MacBook-Pro:demo2 nlabrador$ git pull
remote: Counting objects: 3, done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From github.com:nlabrador/demo
   f9bd248..0b3e597  master    -> origin/master
Updating f9bd248..0b3e597
Fast-forward
 README.md | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)
Ninos-MacBook-Pro:demo2 nlabrador$
```



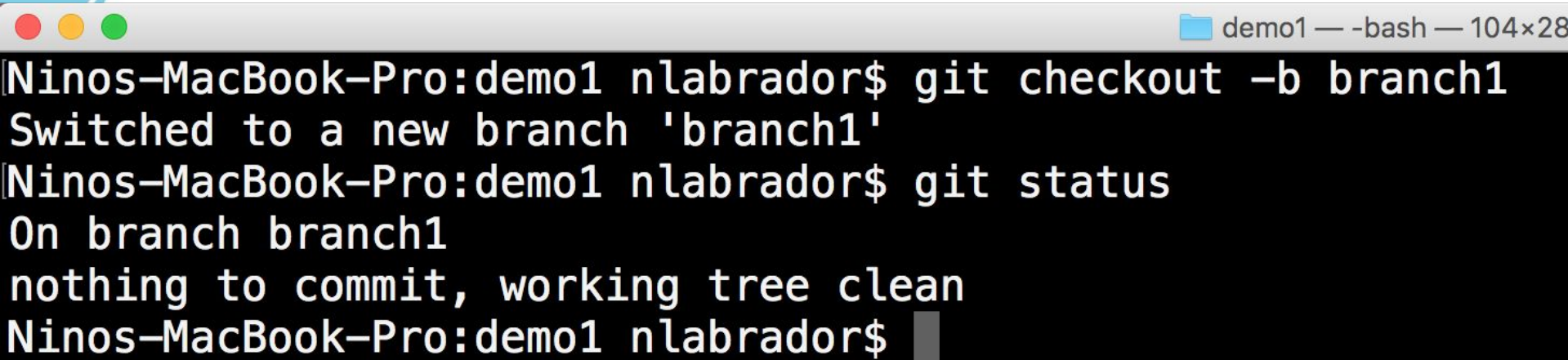
```
1 # demo
2 Change from demo1 clone
~
~
~
```


git/github - seeing the process



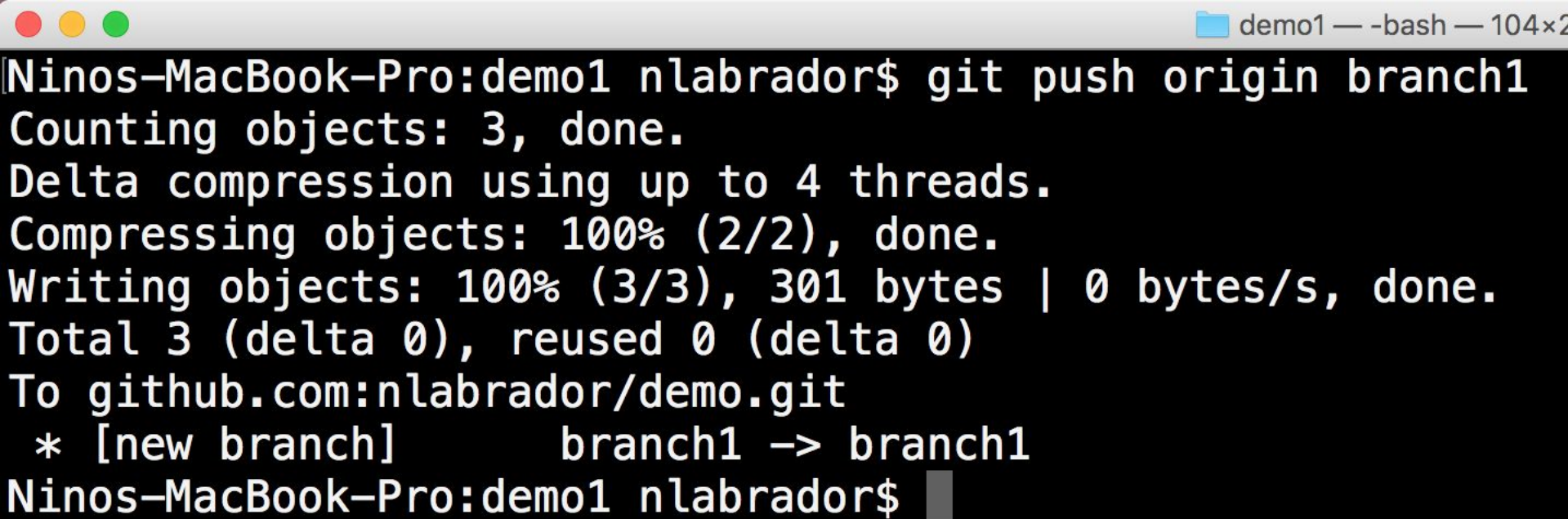
git/github - branching and merging

git commands - checkout branching



```
demo1 — -bash — 104x28
Ninos-MacBook-Pro:demo1 nlabrador$ git checkout -b branch1
Switched to a new branch 'branch1'
Ninos-MacBook-Pro:demo1 nlabrador$ git status
On branch branch1
nothing to commit, working tree clean
Ninos-MacBook-Pro:demo1 nlabrador$
```

git commands - push branch



A terminal window with a macOS-style title bar. The title bar has three colored window control buttons (red, yellow, green) on the left and a text label 'demo1 — -bash — 104x2' on the right. The terminal content shows the execution of a git push command and its output.

```
Ninos-MacBook-Pro:demo1 nlabrador$ git push origin branch1
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 301 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To github.com:nlabrador/demo.git
 * [new branch]      branch1 -> branch1
Ninos-MacBook-Pro:demo1 nlabrador$
```

<> Code

Issues 0

Pull requests 0

Projects 0

Wiki

Pulse

Graphs

Settings

No description or website provided.

Edit

2 commits

2 branches

0 releases

1 contributor

Your recently pushed branches:

branch1 (1 minute ago)

Compare & pull request

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

Switch branches/tags

×

Find or create a branch...

Branches

Tags

branch1

✓ master

demo

Commit message

Latest commit 0b3e597 7 hours ago

Here we put our commit message

7 hours ago

No description or website provided.

Edit

3 commits

2 branches

0 releases

1 contributor

Your recently pushed branches:

branch1 (2 minutes ago)

Compare & pull request

Branch: branch1 ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾

This branch is 1 commit ahead of master.

Pull request Compare

Nino Labrador Commit for branch1 in demo1

Latest commit a2e78b4 4 minutes ago

README.md

Commit for branch1 in demo1

4 minutes ago

README.md

demo

Change from demo1 clone Change from branch1 of demo1 clone

Commit for branch1 in demo1

[Browse files](#)

branch1

Nino Labrador committed 4 minutes ago

1 parent [0b3e597](#)

commit [a2e78b45336bf462ca1af8dab055ceb66f692dfc](#)

Showing 1 changed file with 1 addition and 0 deletions.

Unified

Split

1 README.md

<>

📄

View

@@ -1,2 +1,3 @@

1 1 # demo

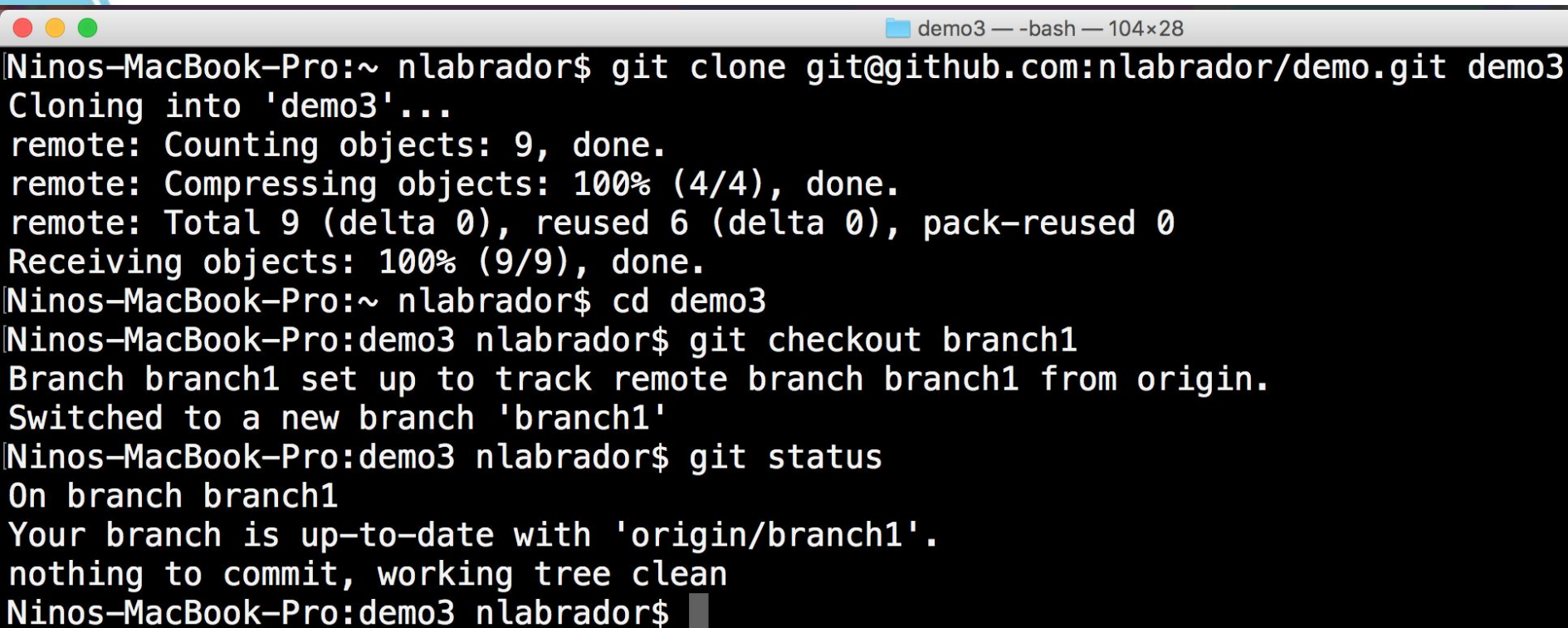
2 2 Change from demo1 clone

3 +Change from branch1 of demo1 clone

0 comments on commit [a2e78b4](#)

Lock conversation

git commands - checkout branch



A terminal window titled 'demo3 — -bash — 104x28' showing a series of git commands and their output. The commands are: 'git clone git@github.com:nlabrador/demo.git demo3', 'cd demo3', 'git checkout branch1', and 'git status'. The output shows the cloning process, switching to a new branch, and confirming the branch is up-to-date.

```
Ninos-MacBook-Pro:~ nlabrador$ git clone git@github.com:nlabrador/demo.git demo3
Cloning into 'demo3'...
remote: Counting objects: 9, done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 9 (delta 0), reused 6 (delta 0), pack-reused 0
Receiving objects: 100% (9/9), done.
Ninos-MacBook-Pro:~ nlabrador$ cd demo3
Ninos-MacBook-Pro:demo3 nlabrador$ git checkout branch1
Branch branch1 set up to track remote branch branch1 from origin.
Switched to a new branch 'branch1'
Ninos-MacBook-Pro:demo3 nlabrador$ git status
On branch branch1
Your branch is up-to-date with 'origin/branch1'.
nothing to commit, working tree clean
Ninos-MacBook-Pro:demo3 nlabrador$
```


git commands - fetch

demo2 — -bash — 104×28

```
Ninos-MacBook-Pro:demo2 nlabrador$ git checkout branch1
error: pathspec 'branch1' did not match any file(s) known to git.
Ninos-MacBook-Pro:demo2 nlabrador$ git fetch
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From github.com:nlabrador/demo
 * [new branch]      branch1      -> origin/branch1
Ninos-MacBook-Pro:demo2 nlabrador$ git checkout branch1
Branch branch1 set up to track remote branch branch1 from origin.
Switched to a new branch 'branch1'
Ninos-MacBook-Pro:demo2 nlabrador$ git status
On branch branch1
Your branch is up-to-date with 'origin/branch1'.
nothing to commit, working tree clean
Ninos-MacBook-Pro:demo2 nlabrador$
```

Your recently pushed branches:

 **branch1** (4 minutes ago)

 **Compare & pull request**



base: **master** ▼

...

compare: **branch1** ▼

✓ **Able to merge.** These branches can be automatically merged.



Commit for branch1 in demo1

Write

Preview

AA ▼ B i



Leave a comment

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

 Styling with Markdown is supported

Create pull request

Reviewers



No reviews— request one

Assignees



No one—assign yourself

Labels



None yet

Milestone



No milestone

Commit for branch1 in demo1 #1



nlabrador wants to merge 1 commit into `master` from `branch1`



Conversation 0

Commits 1



Files changed 1



nlabrador commented just now

Owner



No description provided.



Commit for branch1 in demo1

a2e78b4

Add more commits by pushing to the **branch1** branch on **nlabrador/demo**.



This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request



You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



Commit for branch1 in demo1

a2e78b4



nlabrador merged commit **7d24590** into **master** just now

[Revert](#)



Avoid bugs by automatically running your tests.

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Pull request successfully merged and closed

You're all set—the **branch1** branch can be safely deleted.



Delete branch



**coding
avenue**

4 commits

1 branch

0 releases

1 contributor

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾

 **nlabrador** committed on **GitHub** Merge pull request [#1](#) from nlabrador/branch1 ...

Latest commit 7d24590 18 minutes ago

 [README.md](#)

Commit for branch1 in demo1

6 hours ago

 [README.md](#)

demo

Change from demo1 clone Change from branch1 of demo1 clone

```
Ninos-MacBook-Pro:demo1 nlabrador$ git checkout master
```

```
Switched to branch 'master'
```

```
Your branch is up-to-date with 'origin/master'.
```

```
Ninos-MacBook-Pro:demo1 nlabrador$ git status
```

```
On branch master
```

```
Your branch is up-to-date with 'origin/master'.
```

```
nothing to commit, working tree clean
```

```
Ninos-MacBook-Pro:demo1 nlabrador$
```

```
Ninos-MacBook-Pro:demo1 nlabrador$ git pull
```

```
remote: Counting objects: 1, done.
```

```
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
```

```
Unpacking objects: 100% (1/1), done.
```

```
From github.com:nlabrador/demo
```

```
0b3e597..7d24590 master -> origin/master
```

```
Updating 0b3e597..7d24590
```

```
Fast-forward
```

```
README.md | 1 +
```

```
1 file changed, 1 insertion(+)
```

```
Ninos-MacBook-Pro:demo1 nlabrador$
```


Ninos-MacBook-Pro:demo1 nlabrador\$ git log
commit 7d245901be6799f31c3be85a0425a8e19d2a31e6
Merge: 0b3e597 a2e78b4
Author: Nino Anthony Labrador <nino.labrador@codingavenue.com>
Date: Fri Jan 13 19:49:14 2017 +0800

Merge pull request #1 from nlabrador/branch1

Commit for branch1 in demo1

commit a2e78b45336bf462ca1af8dab055ceb66f692dfc
Author: Nino Labrador <nino.labrador@codingaveue.com>
Date: Fri Jan 13 14:32:48 2017 +0800

Commit for branch1 in demo1

commit 0b3e597ba6e72a2b1eb28d1f71d942a0ef648713
Author: Nino Labrador <nino.labrador@codingaveue.com>
Date: Fri Jan 13 07:58:55 2017 +0800

This is where we put our commit message

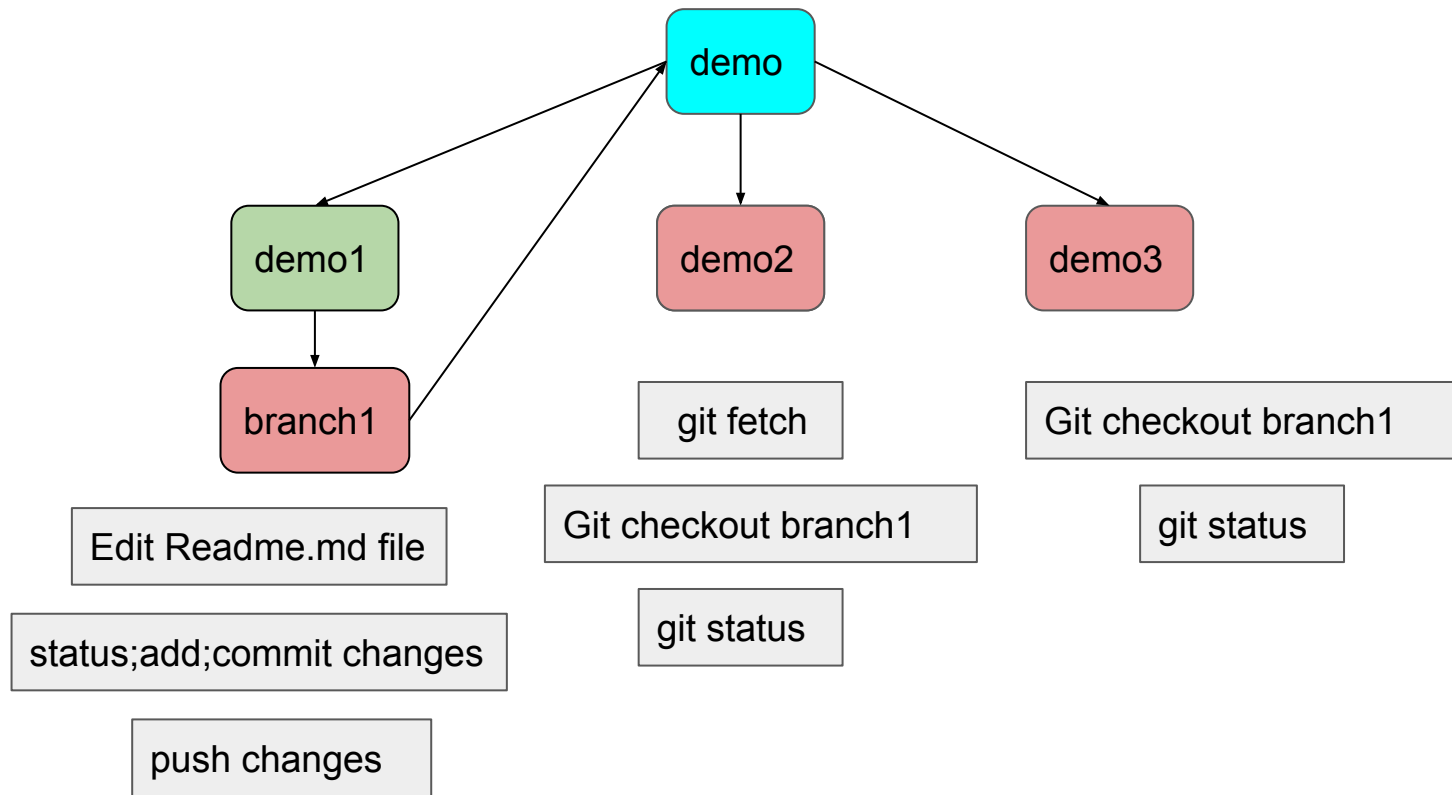
commit f9bd24804f47f327972fede2eb0f3ff45fb4ea25
Author: Nino Anthony Labrador <nino.labrador@codingavenue.com>
Date: Thu Jan 12 23:15:14 2017 +0800

Initial commit

Ninos-MacBook-Pro:demo1 nlabrador\$



git/github - seeing the process



Some notes...

- Version control is a system that records changes to a file or set of files over time so that you can recall specific versions later.
- Version Control System (VCS) allows you to revert files back to a previous state, revert the entire project back to a previous state, compare changes over time, see who last modified something that might be causing a problem, who introduced an issue and when, and more.
- Git is a free and open source distributed version control system.
- Github made process easier by providing repository and having a UI to easily see new changes, able to create pull request for easy merging of branches, control user access to repo, and other cool things that makes things done easily.