

#### WHY CREATE A REMOTE BRANCH?

- When you need other people to work on your branch.
- Any branch that will last more than a day.





### CREATING A REMOTE BRANCH



Links local branch to

the remote branch

(tracking)

\$ git checkout -b shopping\_cart Switched to a new branch 'shopping\_cart'

\$ git push origin shopping\_cart

Counting objects: 10, done.

Delta compression using up to 4 threads.

Compressing objects: 100% (6/6), done.

Writing objects: 100% (6/6), 619 bytes, done.

Total 6 (delta 2), reused 0 (delta 0)

To https://github.com/codeschool/git-real.git

[new branch] shopping\_cart -> shopping\_cart



## PUSHING TO THE BRANCH



```
$ git add cart.rb

$ git commit -a -m "Add basic cart ability."
  [shopping_cart 2a0dbf9] Add basic cart ability
  1 file changed, 1 insertion(+)
  create mode 100644 cart.rb
```

#### \$ git push

Pushed changes from branch

```
Counting objects: 4, done.

Delta compression using up to 4 threads.

Compressing objects: 100% (2/2), done.

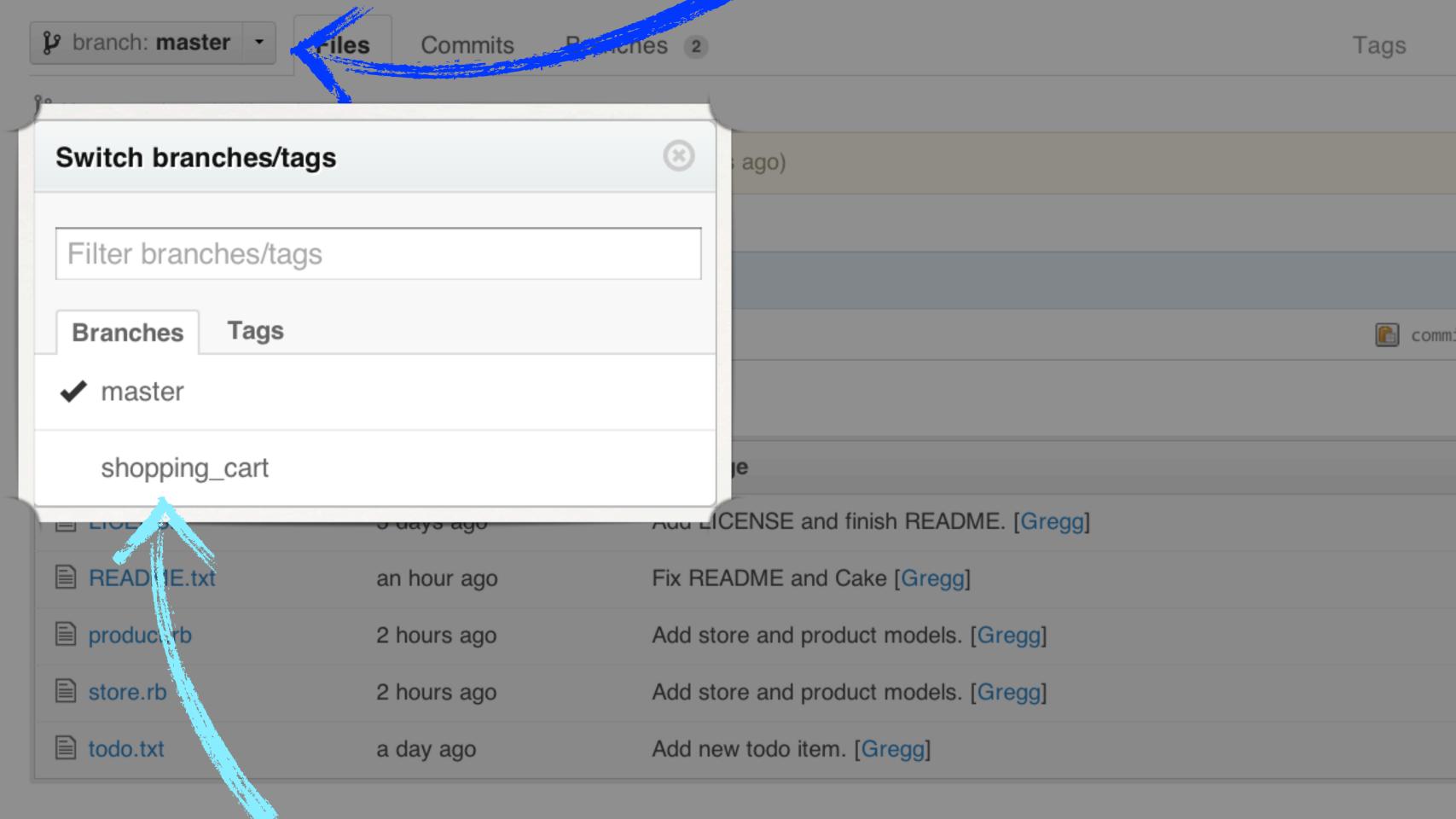
Writing objects: 100% (3/3), 302 bytes, done.

Total 3 (delta 1), reused 0 (delta 0)

To https://github.com/codeschool/git-real.git

786d7a1..2a0dbf9 shopping_cart -> shopping_cart
```





Latest commit to the **shopping\_cart** branch

Add basic cart ability



Gregg authored 23 minutes ago



#### git-real /

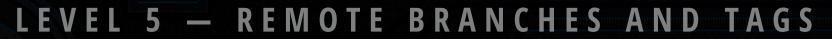
name	age	message	
LICENSE	5 days ago	Add LICENSE and finish README. [Gregg]	
■ README.txt	an hour ago	Fix README and Cake [Gregg]	
art.rb	23 minutes ago	Add basic cart ability [Gregg]	
product.rb	2 hours ago	Add store and product models. [Gregg]	
store.rb	2 hours ago	Add store and product models. [Gregg]	
■ todo.txt	a day ago	Add new todo item. [Gregg]	

#### CREATING A BRANCH

Hey Jane, 1 started a branch

Sweet, I'll check it out







## PULLING NEW BRANCHES



```
$ git pull
 remote: Counting objects: 13, done.
 remote: Compressing objects: 100% (6/6), done.
 remote: Total 9 (delta 3), reused 8 (delta 2)
 Unpacking objects: 100% (9/9), done.
 From https://github.com/Gregg/git-real
    4e76d35..786d7a1 master -> origin/master
  * [new branch] shopping_cart -> origin/shopping_cart
 Updating 4e76d35..786d7a1
 Fast-forward
  README.txt | 2 +-
  1 file changed, 1 insertion(+), 1 deletion(-)
```

remote branch



#### PULLING NEW BRANCHES



- \$ git branch
  - \* master
- \$ git branch -r list all remote branches origin/master origin/shopping\_cart
- \$ git checkout shopping\_cart

Branch shopping\_cart set up to track remote branch shopping\_cart from origin. Switched to a new branch 'shopping\_cart'

\$ git branch master

Now we can contribute and push!

\* shopping\_cart



## REMOTE SHOW



```
$ git remote show origin
* remote origin
  Fetch URL: https://github.com/Gregg/git-real.git
  Push URL: https://github.com/Gregg/git-real.git
  HEAD branch: master
  Remote branches:
    master tracked
    shopping_cart tracked
  Local branches configured for 'git pull':
    master merges with remote master
    shopping_cart merges with remote shopping_cart
  Local refs configured for 'git push':
    master pushes to master (up to date)
```

shopping\_cart pushes to shopping\_cart (local out of date)

#### REMOVING A BRANCH



- \$ git push origin :shopping\_cart Deletes remote branch
  To https://github.com/codeschool/git-real.git
   [deleted] shopping\_cart
- \$ git branch -d shopping\_cart Must delete local branch manually error: The branch 'shopping\_cart' is not fully merged.

  If you are sure you want to delete it, run 'git branch -D shopping\_cart'.
- \$ git branch -D shopping\_cart
  Deleted branch shopping\_cart (was ea0a1b9).



# WHAT ABOUT GREGG?







## ON DELETED REMOTE BRANCH

\* [pruned] origin/shopping\_cart

```
$ git commit -m -a "Add ability to pay."
  [shopping_cart 9851887] Add ability to pay.
   1 file changed, 1 insertion(+), 1 deletion(-)
                No remote to push to (it's just a local branch now)
$ git push
   Everything up-to-date
$ git remote show origin
Remote branches:
  master
                                  tracked
  refs/remotes/origin/shopping_cart stale (use 'git remote prune' to remove)
$ git remote prune origin
                         To clean up deleted remote branches
Pruning origin
URL: https://github.com/codeschool/git-real.git
```

## REMOTE BRANCH NAMES

\$ git branch
\* staging

master

Heroku deploys only master branch



\$ git push heroku-staging staging

Would not work, would push to staging

local:remote

\$ git push heroku-staging staging:master

Will push and deploy staging on heroku



#### TAGGING

A tag is a reference to a commit (used mostly for release versioning)

```
$ git tag list all tags
v0.0.1
v0.0.2
$ git checkout v0.0.1 check out code at commit
```

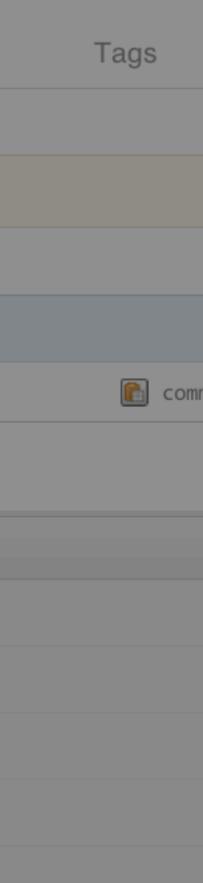
To add a new tag

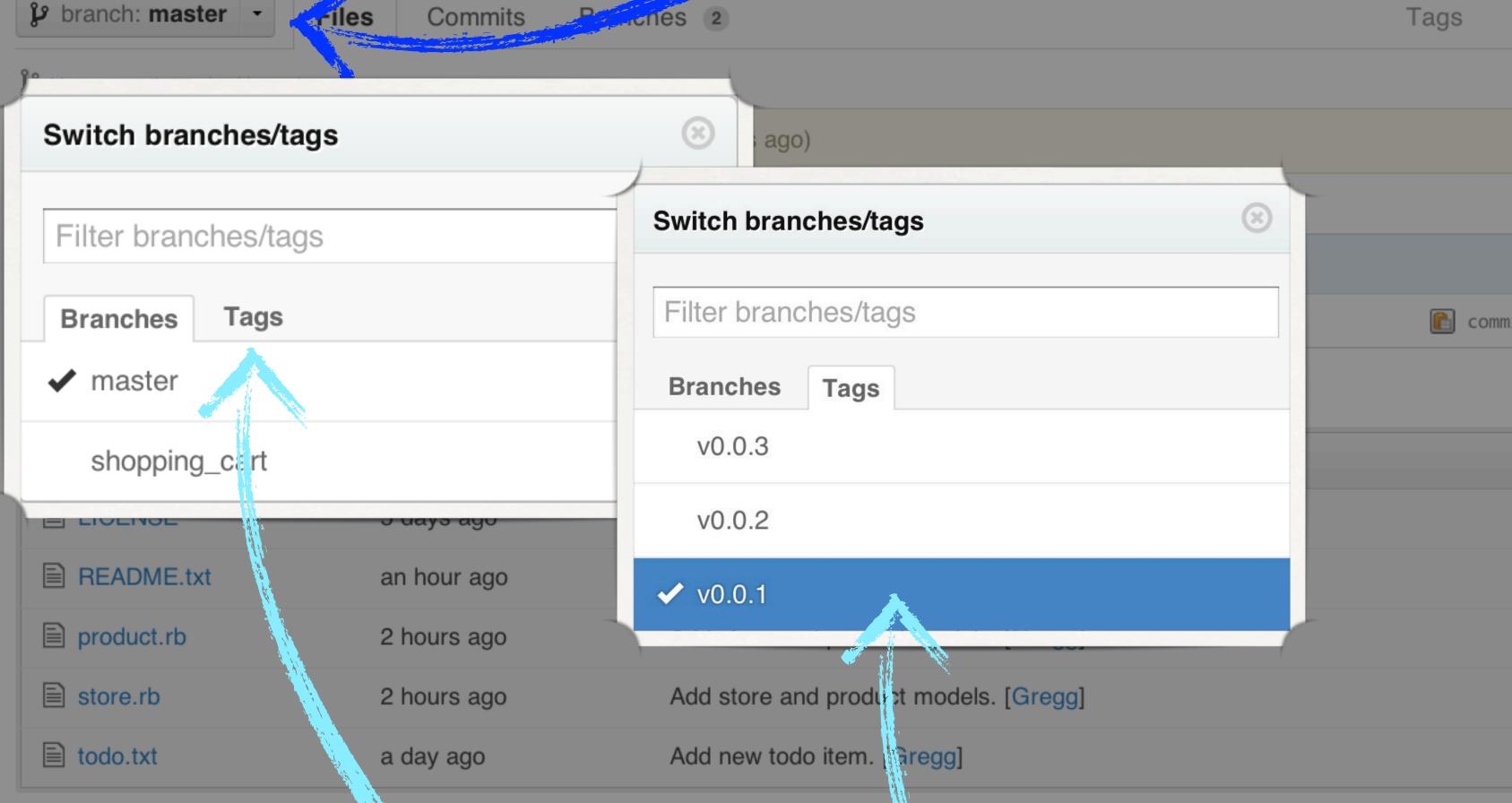
```
$ git tag -a v0.0.3 -m "version 0.0.3"
```

To push new tags

```
$ git push --tags
```









Latest commit to the **v0.0.1** tag

Update Readme with lie.



Gregg authored 3 hours ago

#### git-real /

name	age	message
LICENSE	6 days ago	Add LICENSE and finish README. [Gre
README.txt	3 hours ago	Update Readme with lie. [Gregg]
product.rb	8 hours ago	Add product and store models. [Gregg]
shopping_cart.rb	3 hours ago	Add shopping cart [Gregg]

