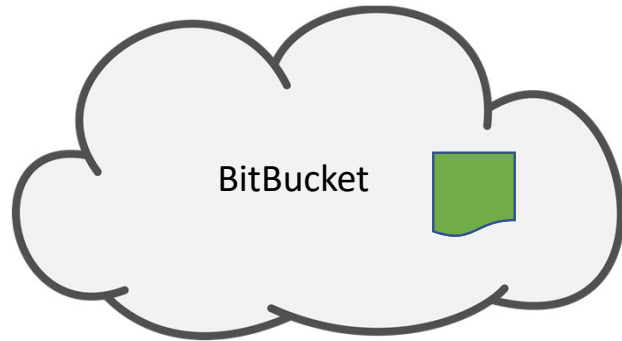MODULE 3

Git Branching

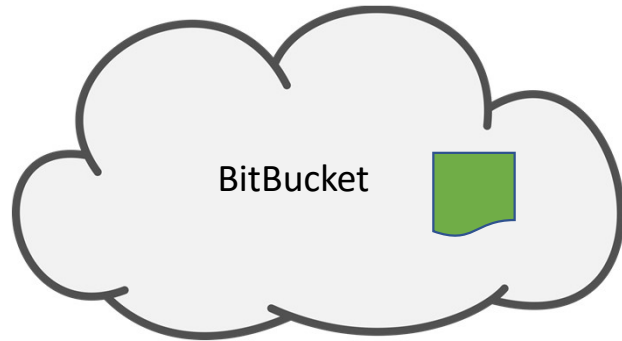# Git – Just Me.

BitBucket
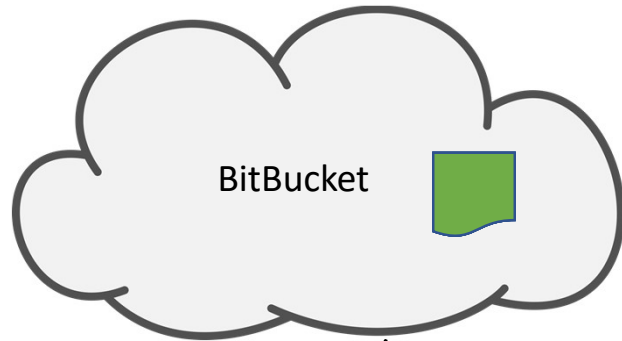
git clone or git pull origin master

Git – Just Me.

BitBucket

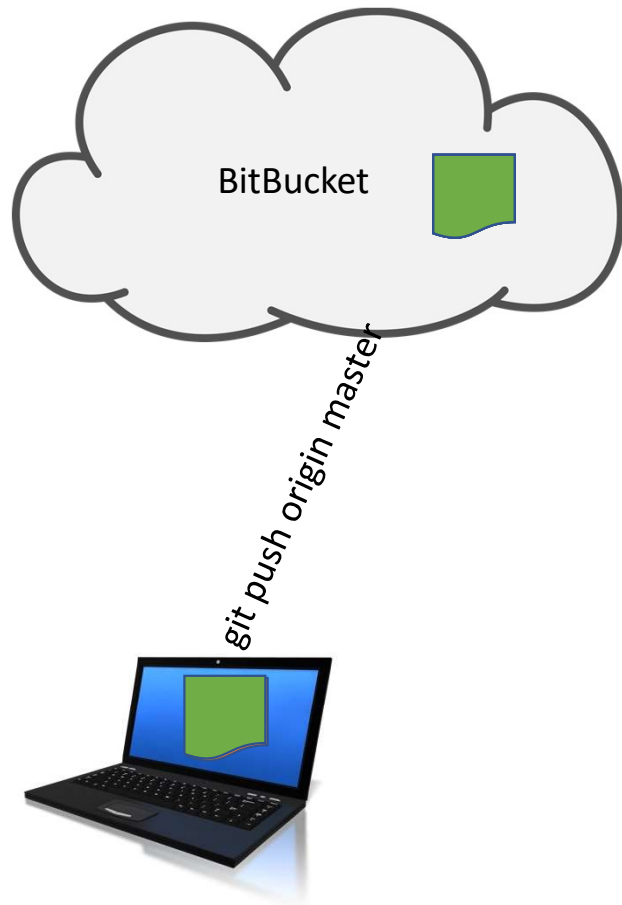git push origin master

Git – Just Me and Bobby McGee

BitBucket
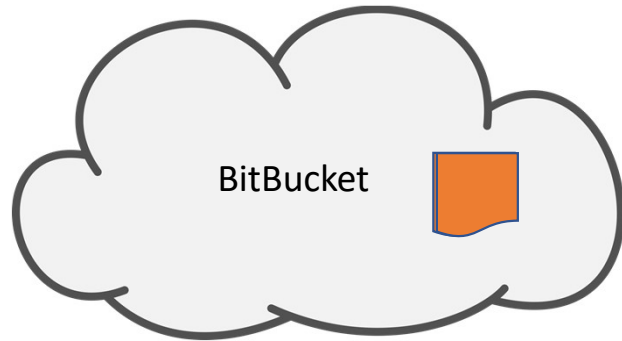
git clone or
git pull origin master

git clone or git pull origin master

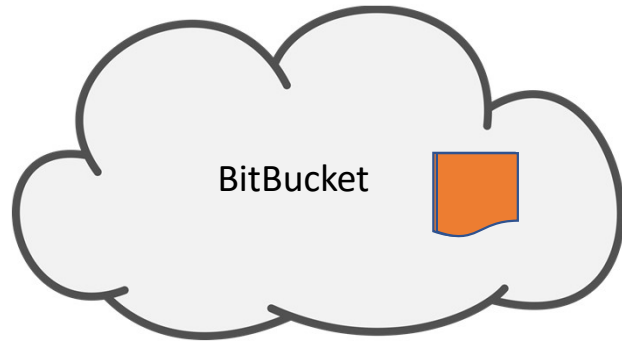# Git – Just Me and Bobby McGee

Git – Just Me and Bobby McGee

BitBucket

git push origin master

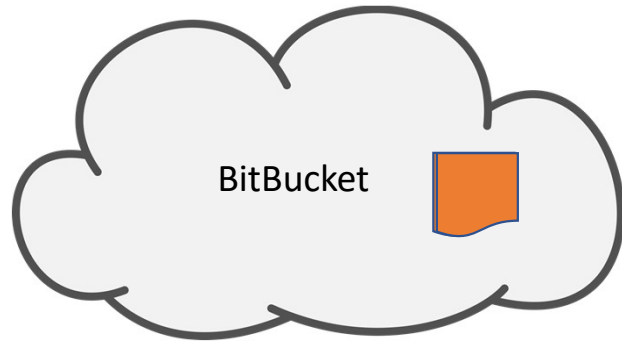# Git – Just Me and Bobby McGee

BitBucket

git pull origin master

Git – Just Me and Bobby McGee
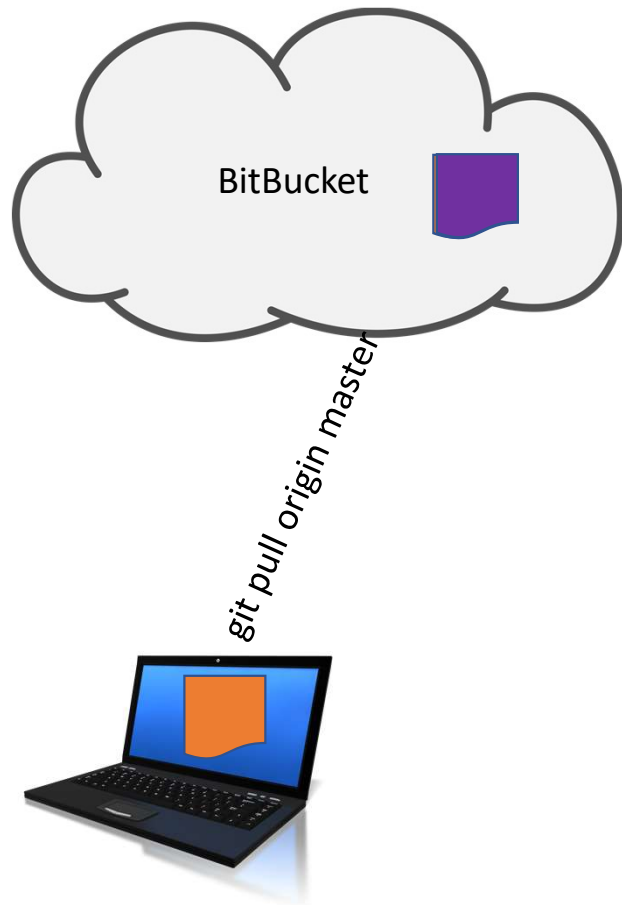
BitBucket

git push origin master

Fix merge conflicts

Git – Just Me and Bobby McGee

BitBucket

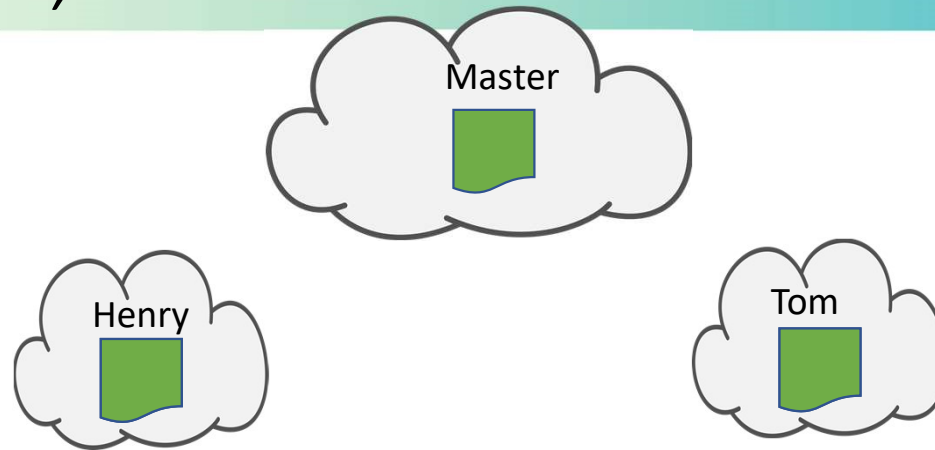git pull origin master

Branching

Pull Requests

What Happens in the Real World

- We use Branches!
- Master is golden
- Must protect master
- Limit Merge Conflicts
- Backup code to cloud
- Allow Experimentatio
- Facilitates Communica

Dobby is a free elf, and Dobby has come to save Source Code and his friends!

Once more, with BRANCHES!

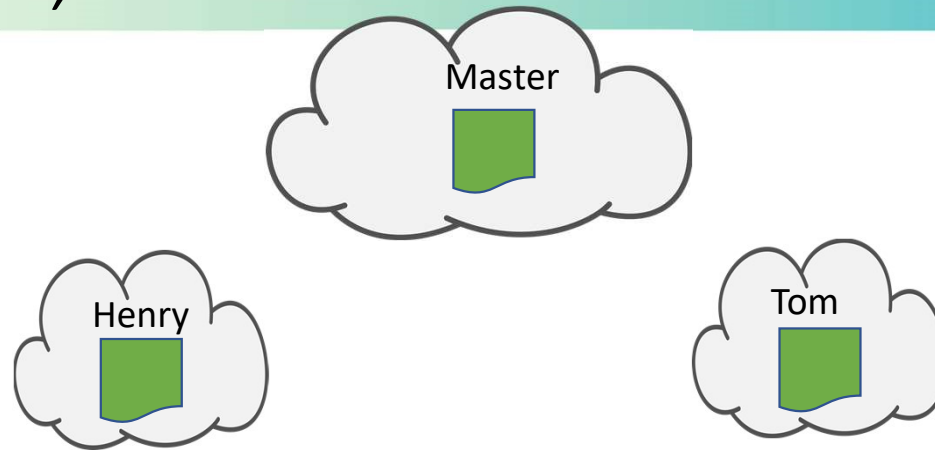Master

Henry

Tom

git clone or
git pull origin Henry

git clone or
git pull origin Tom

Once more, with BRANCHES!

Master

Henry

Tom

git push origin Henry

Once more, with BRANCHES!

Master

Henry

Pull Request

Tom

Once more, with BRANCHES!

git push origin Tom

Once more, with BRANCHES!

Master
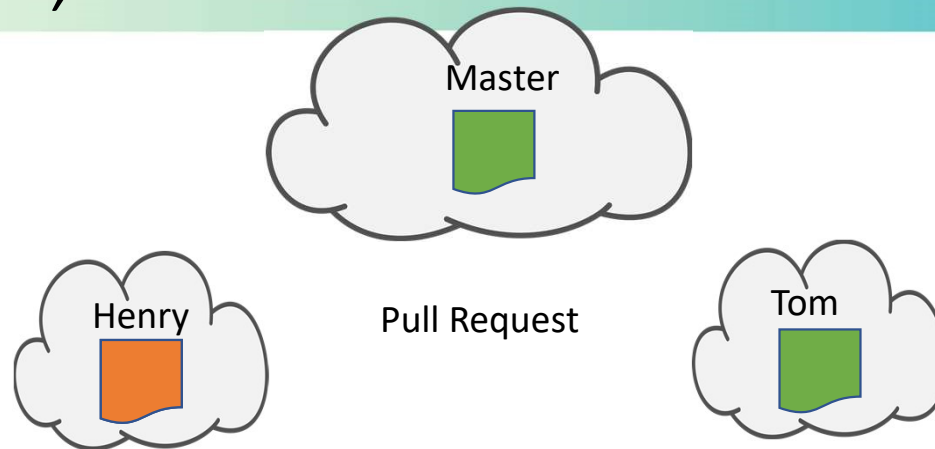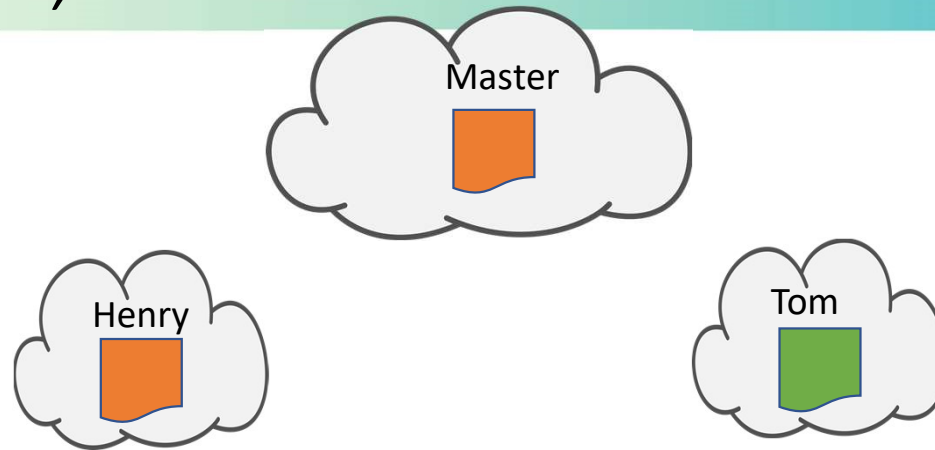
Henry

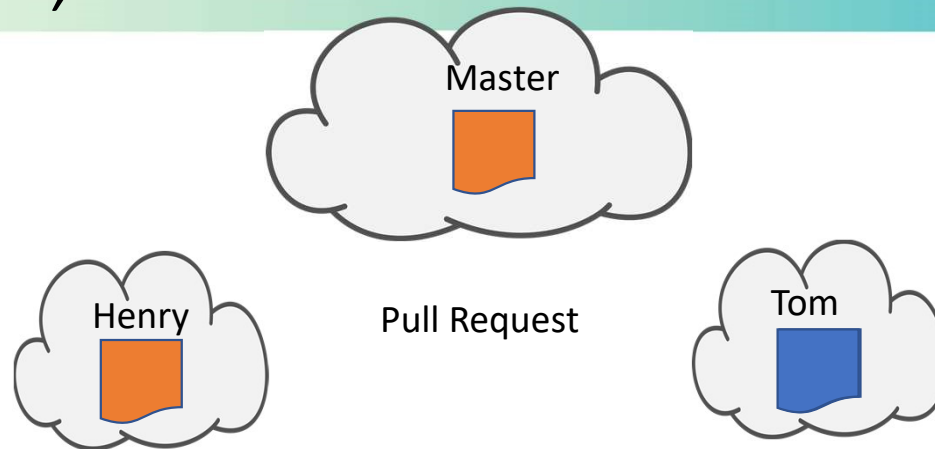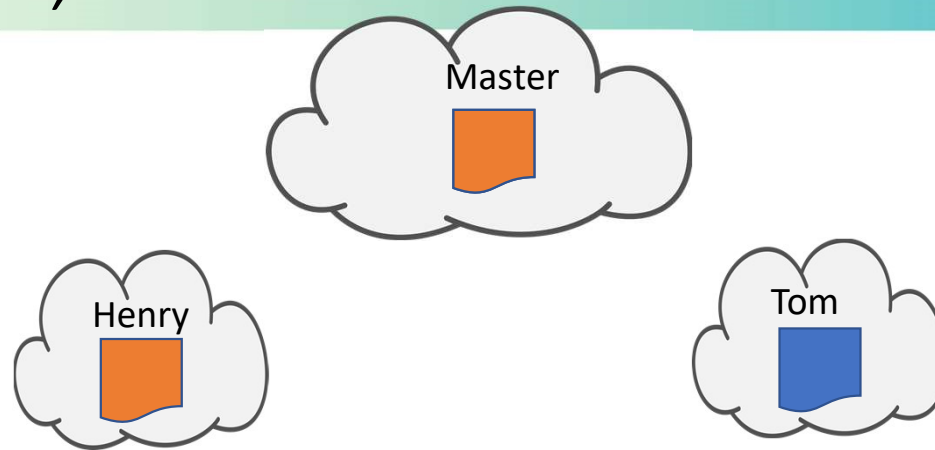Pull Request

Tom

Once more, with BRANCHES!

Once more, with BRANCHES!

git push origin Tom
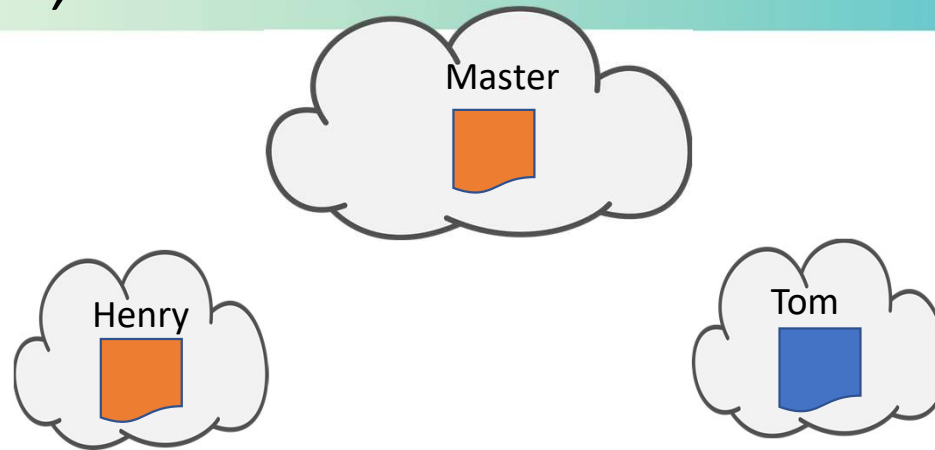
Once more, with BRANCHES!

Once more, with BRANCHES!

Master

Henry

Tom
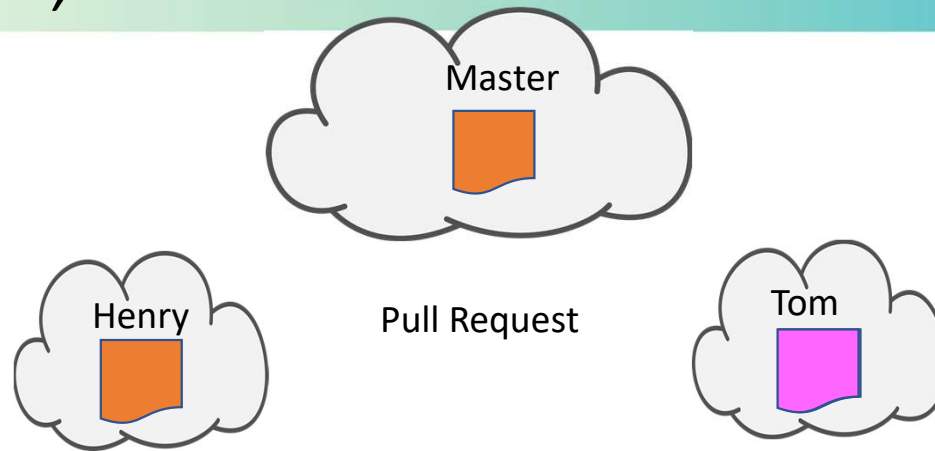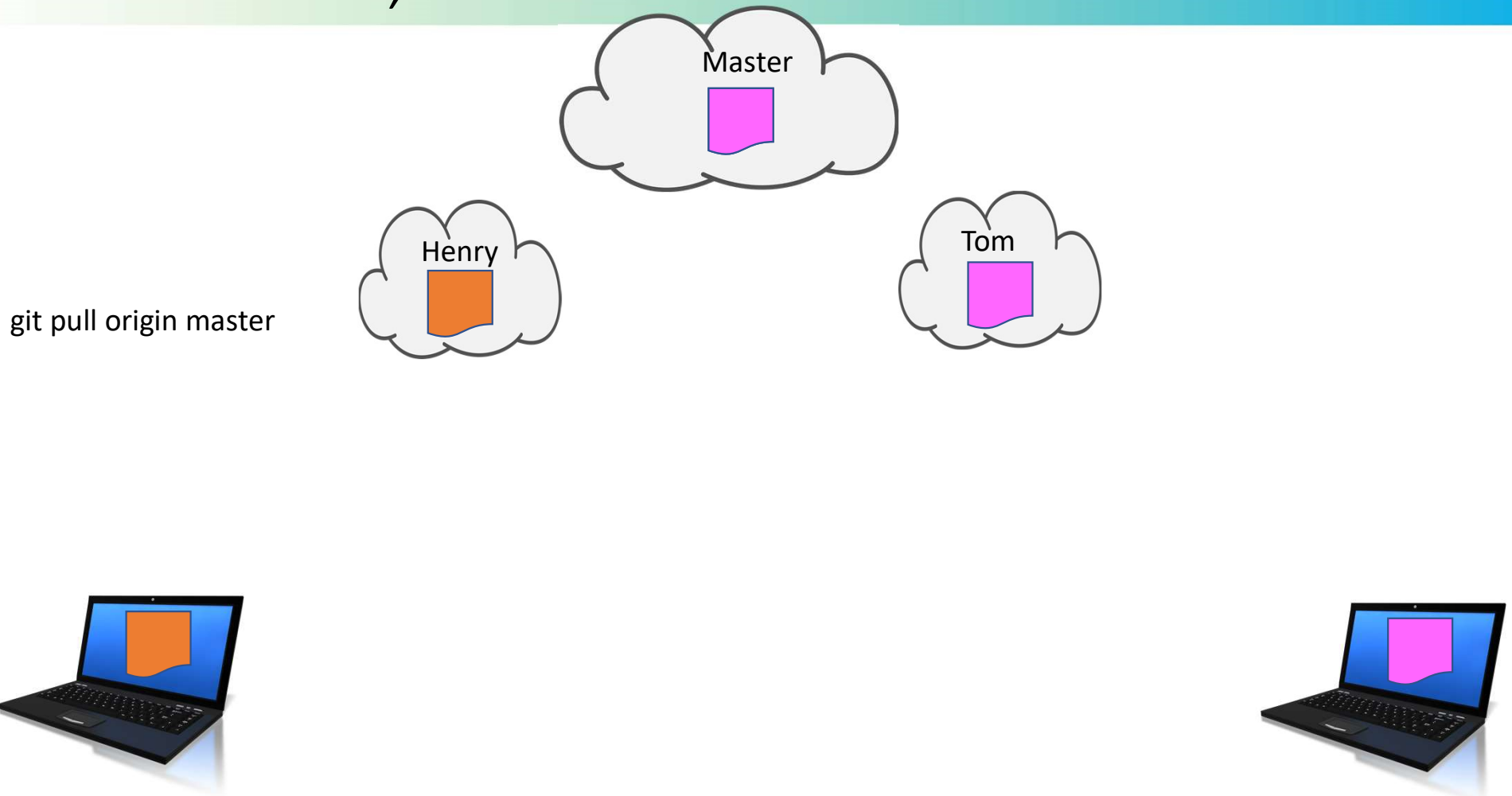
git pull origin master

ENGLISH, PLEASE

Steps for Git with Branches

- ALWAYS WORK IN YOUR BRANCH
    1. git checkout TomAnderson
    2. Do your code.

- Usual git steps to commit code
    1. git status
    2. git add –A
    3. git commit –m "Cool code"
    4. git pull origin TomAnderson
    5. git push origin TomAnderson

Create a Pull Request

Create a Pull Request

Create a Pull Request
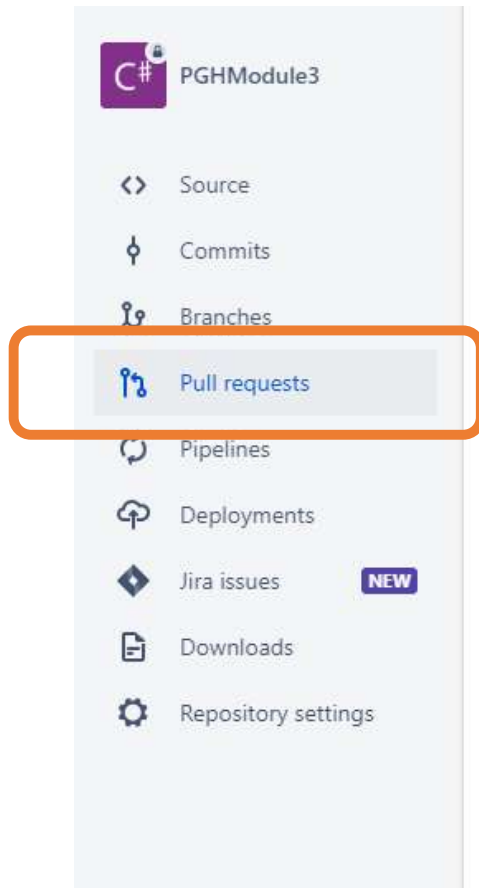
Tom Anderson / TechElevator / PGHModule3 / Pull requests

No more testing

#1 OPEN | HenryEdwards → master

Merge | Edit | Decline | ⊘ Approve | 0

Overview Commits Activity

Author Tom Anderson

👁 Stop watching

Reviewers *No reviewers*

Description *No description*

Comments (0)

What would you like to say?

Create a Pull Request

Pull Requests – TomAnderson

- After pushing your WORKING code to your branch
- Click **Pull Requests** in Bitbucket
- Click **Create pull request**
- Choose **your branch** from the left and **master** from the right
- Click **Create pull request** at the bottom
- Notify your team/partner that there's a pull request

Verifying a Pull Request – Henry Edwards

- First, commit/save your current work in your branch (don't want to lose anything)
- Change to the branch for the pull request
  - git checkout TomAnderson
  - git pull origin TomAnderson
- **VALIDATE THAT THE CODE WORKS AND DOES WITH IT SHOULD**
- Click Approve in BitBucket for the pull request (if above is true)
- Return to your branch
  - git checkout HenryEdwards
- Continue working on your code.

Finishing Pull Request

- Tom Anderson
  - Click **Merge** in BitBucket Pull Request
  - Notify your team/partner the pull request has been merged

- Team/Partner
  - Verify you are in your branch
    - git checkout HenryEdwards
    - git pull origin master

- All done!

If creating your Pull Request fails

- If there is a merge conflict between your branch and master
  - Pull master into your branch
    - git checkout TomAnderson
    - git pull origin master

  - Fix the merge conflicts.
  - git status
  - git add –A
  - git commit –m "Cool code"
  - git pull origin TomAnderson
  - git push origin TomAnderson

Questions?