Git it Done!!! A Story of Two Collaborators

NOTE: go to settings to make someone a **collaborator.**

Richard makes project
Creates project in Xcode
Creates new repo in git account
Initializes with readme
Clone repo (get https from repo project)
Open terminal - git clone
Move to another folder (or clone it into the correct folder in the first place.)

Kevin copying this same project…
In terminal…cd into desktop or desired folder
Git **clone** <https>
Added a new file into the folder.
Git status
Git commit -m "add new file"
Git push

Richard
Must **git pull** first to update repo
'ls' and sees the new file that Kevin added
***Creating a storyboard merge conflict for FUN. (We want to avoid this.)
In Xcode, adds button
Git status
Git add -A
Git commit -m "storyboard"
Git push
Refreshed his GitHub… sees storyboard of initial commit up to his storyboard commit.

Kevin
In Xcode…
Kevin hates the big green button. AND the ViewController. So he deletes the VIewController in defiance and creates a tableViewController.
Git status
Git add -A
Git commit -m "delete VC and add new TableViewController"
Git push
Error - failed to push some refs…
Terminal gives hints about what to do.. suggests to pull
Git pull
CONFLICT!!!
Open the source code for the storyboard. Open as SourceCode.
The HEAD is Kevin's version (local)
Under ======= is the other version

Delete from ====== to >>>>>>>> 9b69c8ef…..
Also delete the notation <<<<<<<<< HEAD
Close and auto saves. Can check out storyboard to see changes.
Git status
Git add -A
Git commit -m "fixed merge conflict"
Git push
Check out GitHub for recent changes…

NOTE: Collaborators should create their own branches.

Rich creates a branch!
Git checkout -b Richard-branch
Git branch to checkout the branches. He is in his own branch now.
In Xcode, created a nav controller
Git add -A
Git commit -m "added nav controller"
Git push
Terminal hints how to push upstream.. just copy and paste that line of code.

Kevin creates a branch from Richard-branch! Ya!
Git pull
Git checkout Richard-branch
Looked at XCODE and saw the changes
Creating his own branch from Richard-branch (not from the master)
Git checkout -b kevin-branch
In Xcode, added image into resized table view cell
Git add -A
Git commit -m "added cell with image"
Git push
Copy and paste suggested push command.

Richard merges through remote pull request on Github remote site.
Requested a pull request from Kevin's branch…
This then adds the commits made on Richard-branch and Kevin-Branch onto the master branch

Additional Notes:
*** For this project, recommended to just have a branch per person and merge into master as needed.
For larger projects...
- Development branch
- Staging branch
- Production branch

*** can also create more than one storyboard file. Like branches!!!
Double click storyboard…

In viewDidload..

```
let richardStoryboard = UIStoryboard(name: "RichardStory", bundle: nil)
let firstVC = richardStoryboard.instantiateInitialViewController()!
present(firstVC, animated: true, completion: nil)
```