github\_cheatsheet

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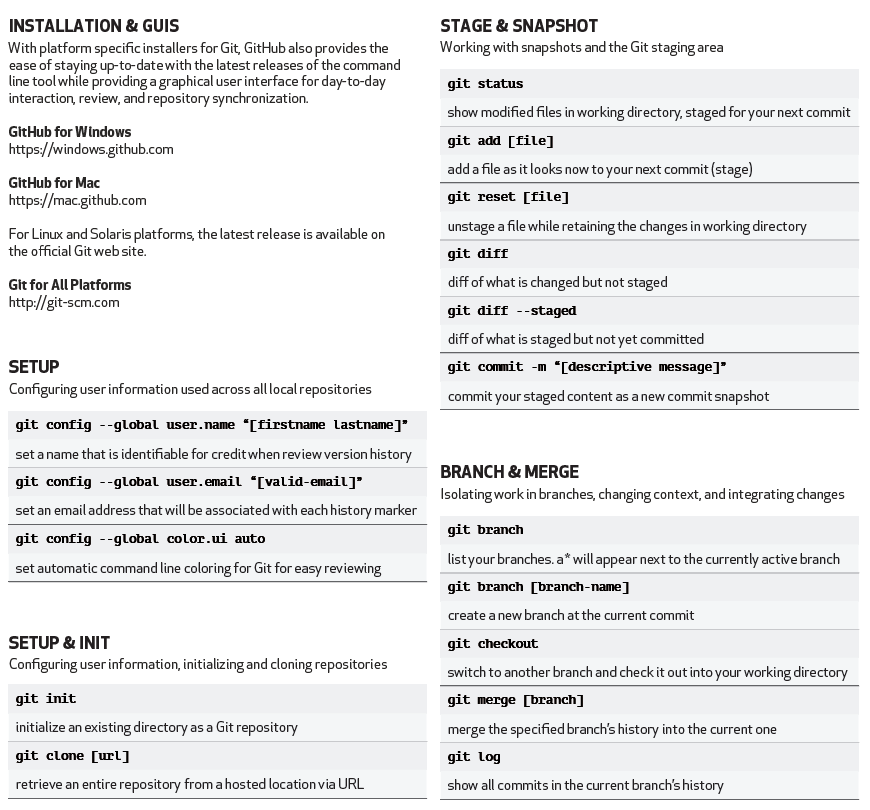
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# add/add Conflicts

<https://www.dmuth.org/node/1428/git-101-how-handle-merge-conflicts>

# Clone a Private Repository

git clone https://Prettyfield:<insert\_pwd\_here>@github.com/savitech/notebooks.git

## Example: Create a local repository directory, and clone the github repository to the local machine

Create the git local repository

mb-bbeauchamp:dev bruce$

mb-bbeauchamp:dev bruce$ pwd

/Users/bruce/dev

mb-bbeauchamp:dev bruce$ **git init**

Initialized empty Git repository in /Users/bruce/dev/.git/

Clone the github repository into the local repository

mb-bbeauchamp:dev bruce$ **git clone https://github.com/BAPrettyfield/CheatSheets.git cheatsheets**

Cloning into 'cheatsheets'...

remote: Enumerating objects: 96, done.

remote: Counting objects: 100% (96/96), done.

remote: Compressing objects: 100% (68/68), done.

remote: Total 1707 (delta 55), reused 69 (delta 28), pack-reused 1611

Receiving objects: 100% (1707/1707), 43.63 MiB | 8.16 MiB/s, done.

Resolving deltas: 100% (999/999), done.

mb-bbeauchamp:dev bruce$ ls

cheatsheets

mb-bbeauchamp:dev bruce$ cd cheatsheets

mb-bbeauchamp:cheatsheets bruce$ ls

Cassandra\_Cheatsheet.docx github\_cheatsheet.docx

DevCenter Cheatsheet.docx iPython\_cheatsheet.docx

GraphLab\_Cheatsheet.docx jupyter\_cheatsheet.docx

Hadoop Cheatsheet.docx linux\_cheatsheet.docx

Lego\_Robotics\_Cheatsheet.docx mac\_cheatsheet.docx

Oracle\_Cheatsheet.docx machine\_learning\_cheatsheet.docx

Postgres Cheatsheet.docx markdown\_cheatsheet.docx

Python\_Cheatsheet.docx pySpark\_Cheatsheet.docx

R Cheatsheet.docx scikit\_learn\_cheatsheet.docx

R Cheatsheet2.docx sparkSQL\_cheatsheet.docx

README.md spark\_cheatsheet.docx

Ruby Cheatsheet.docx sql\_cheatsheet.docx

Scikit-learn algorithm cheat-sheet.pptx tableau\_cheatsheet.docx

Unix Cheatsheet.docx tableau\_example\_workbooks

bitbucket cheatsheet.docx windows\_cmd\_cheatsheet.docx

conda-cheatsheet.pdf ~$Cheatsheet.docx

conda\_cheatsheet.docx ~$Spark Cheatsheet.docx

educational\_subjects.docx ~$c\_cheatsheet.docx

ev3\_cheatsheet.docx ~$doop Cheatsheet.docx

# Force a Push to a Github Repository

git push origin master –-force

# GitHub Flow Process

a.k.a. “Git Feature Workflow” and “Feature Branches”

See: <https://gist.github.com/blackfalcon/8428401>

Note: The original document describing this approach was

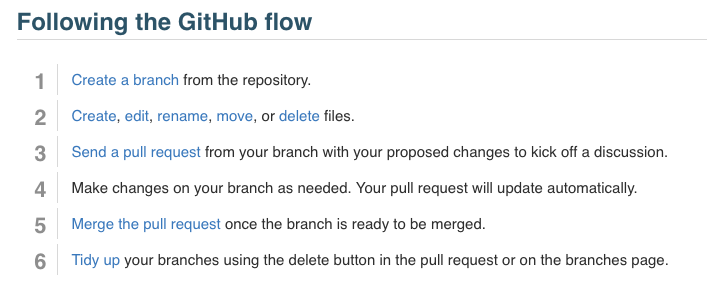


Figure 1 - https://help.github.com/articles/github-flow/

1. Create a branch in github.

<https://help.github.com/articles/creating-and-deleting-branches-within-your-repository/>

1. something

## Examples

# [Example Github Flow](#_Appendix_1_-)

# Merge Binary Files

Problem:

c:\gitrepo\CheatSheets>git pull

warning: Cannot merge binary files: Python\_Cheatsheet.docx (HEAD vs. 47369c46c4becd577b1522576620109121823c9e)

Auto-merging Python\_Cheatsheet.docx

CONFLICT (content): Merge conflict in Python\_Cheatsheet.docx

Automatic merge failed; fix conflicts and then commit the result.

Solution:

c:\gitrepo\CheatSheets>git checkout --theirs -- Python\_Cheatsheet.docx

c:\gitrepo\CheatSheets>git commit -m "fixing merges"

[master 188d4cb] fixing merges

c:\gitrepo\CheatSheets>git push

# Throw Out All Changes and Revert to the Origin Master

git reset --hard origin/master

# Undo a git add

To **undo git add** . use **git** reset (no dot)

# Appendix 1 - Example Github Flow (a.k.a. “Feature Branch”) Session

a.k.a. “git\_feature\_workflow”

Last login: Mon Oct 8 13:07:40 on ttys002

**➜ ~** pwd

/Users/bbeauchamp

**➜ ~** cd ..

**➜ /** cd Users

**➜ /Users** cd bbeauchamp

**➜ ~** ls

...

**dev**

**...**

**➜ ~** cd dev

**➜ dev** cd data-science

**➜ data-science** **git:(master) ✗** cd eta

**➜ eta** **git:(master) ✗** cd ocean\_eta

**➜ ocean\_eta** **git:(master) ✗** ls

Actual Distance ETA Annotated 2018-04-17.ipynb

DTW Annotated 2018-04-13.ipynb

IMO List From Schedules.ipynb

Ocean\_Generic\_ETA\_Model\_Training\_Baseline.ipynb

Ocean\_Leg\_ETA\_Model\_Training\_km-rem.ipynb

Ocean\_Leg\_ETA\_Model\_Training\_km-rem\_speed.ipynb

Total Distance ETA.ipynb

**ship\_sched**

**vessel\_odpair\_eta**

**➜ ocean\_eta** **git:(master) ✗** cd vessel\_odpair\_eta

**➜ vessel\_odpair\_eta** **git:(master) ✗** git pull

Already up to date.

**➜ vessel\_odpair\_eta git:(master) ✗ git checkout -b vessel\_odpair\_model**

**Switched to a new branch 'vessel\_odpair\_model'**

**➜ vessel\_odpair\_eta** **git:(vessel\_odpair\_model) ✗** ls

**data**

**➜ vessel\_odpair\_eta** **git:(vessel\_odpair\_model) ✗** mkdir notebooks

**➜ vessel\_odpair\_eta** **git:(vessel\_odpair\_model) ✗** cd notebooks

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** pwd

/Users/bbeauchamp/dev/data-science/eta/ocean\_eta/vessel\_odpair\_eta/notebooks

Note: Here I moved the jupyter notebook I wanted to commit, to the notebooks directory.

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** ls

vessel\_leg\_turnaround\_transit\_modeler.ipynb

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git add vessel\_leg\_turnaround\_transit\_modeler.ipynb

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git commit -m "Initial commit of the vessel\_leg transit modeler."

[vessel\_odpair\_model 72b8370] Initial commit of the vessel\_leg transit modeler.

1 file changed, 5486 insertions(+)

create mode 100644 eta/ocean\_eta/vessel\_odpair\_eta/notebooks/vessel\_leg\_turnaround\_transit\_modeler.ipynb

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git push origin vessel\_odpair\_model

Counting objects: 7, done.

Delta compression using up to 8 threads.

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

Writing objects: 100% (7/7), 37.74 KiB | 5.39 MiB/s, done.

Total 7 (delta 3), reused 0 (delta 0)

remote: Resolving deltas: 100% (3/3), completed with 3 local objects.

remote:

remote: Create a pull request for 'vessel\_odpair\_model' on GitHub by visiting:

remote: https://github.com/savitech/data-science/pull/new/vessel\_odpair\_model

remote:

To https://github.com/savitech/data-science.git

\* [new branch] vessel\_odpair\_model -> vessel\_odpair\_model

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** pwd

/Users/bbeauchamp/dev/data-science/eta/ocean\_eta/vessel\_odpair\_eta/notebooks

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git branch

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git status

On branch vessel\_odpair\_model

Untracked files:

(use "git add <file>..." to include in what will be committed)

../../../../cust/ciri/

../../../../cust/pg/2018/

../../../../cust/pg/pg\_lanes\_export\_2017-05-18.csv

../.gitignore

nothing added to commit but untracked files present (use "git add" to track)

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git add vessel\_leg\*.ipynb

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git commit -m "Add modeler notebook which calculates the median speed for a particular vessel on a particular leg. Used to model vessel ETA on that leg."

[vessel\_odpair\_model 396006f] Add modeler notebook which calculates the median speed for a particular vessel on a particular leg. Used to model vessel ETA on that leg.

1 file changed, 1190 insertions(+), 5486 deletions(-)

rewrite eta/ocean\_eta/vessel\_odpair\_eta/notebooks/vessel\_leg\_turnaround\_transit\_modeler.ipynb (83%)

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git push origin vessel\_odpair\_model

Counting objects: 7, done.

Delta compression using up to 8 threads.

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

Writing objects: 100% (7/7), 1.08 KiB | 1.08 MiB/s, done.

Total 7 (delta 4), reused 0 (delta 0)

remote: Resolving deltas: 100% (4/4), completed with 4 local objects.

To https://github.com/savitech/data-science.git

72b8370..396006f vessel\_odpair\_model -> vessel\_odpair\_model

**Note: Repeat the above process for additional files to be added...**

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git push origin vessel\_odpair\_model

Everything up-to-date

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** ls

extract\_median\_abs\_err.ipynb

readme.txt

vessel\_leg\_turnaround\_transit\_modeler.ipynb

**➜ notebooks** **git:(vessel\_odpair\_model) ✗** git branch

Then use github