Git commands Cheat Sheet by itsellej via cheatography.com/55812/cs/14830/

SETTING UP A REPOSITORY		Git commit
		git commit
Git init		Opens atom, so you can add a commit message on top line. Remember to save
git init		git commit -m ["commit message"]
Creates a new repository in a directory		Add commit message using the command line
Git clone		git commit -a -m ["commit message"]
git clone [url] [new directory name]		Commits changed tracked files
Clone a repo into a new directory		* Style guide for writing commit messages: http://udacity.github.io/g
git clone [url]		styleguide/
Clone a repo into the current directory		Keep commits small. Make one commit per logical change. Messages written in present tense.
		Messages whiten in present tense.
SAVING CHANGES		https://www.atlassian.com/git/tutorials/saving-changes#git-commit
		Git diff
Git add		git diff
git add [file name]		Display changes to files in working directory (not staged)
Add files to staging area		git diffstaged
git add .		Display changes to staged files
Add all changed files to staging area		**git diff [commit id 1] [commit id 2]
git add '*[file type]'		Compare two commits
Example "git add *.txt" to add only text files to the staging area		git diff HEAD
git add [directory]		Display changes between staged and unstaged file changes
Stages changes of files in a directory		Compare changes between files
https://www.atlassian.com/git/tutorials/saving-ch	nanges#git-add	
	0 0	UNDOING CHANGES
Git reset		
git reset HEAD [file name]		
Resets file in working directory to be the same as the HEAD (last)		git clean
commit		git clean -n
git reset [commit ID]		Dry run. Does not delete files, but shows which files would be
Resets files in working directory to be the same	as the commit	deleted
specified		git clean -f
		git clean -d
By itsellej cheatography.com/itsellej/	Published 5th March Last updated 5th Ma Page 1 of 5.	

Git commands Cheat Sheet by itsellej via cheatography.com/55812/cs/14830/

git clean (cont)

Remove any untracked directories. Use in combination with previous commands above

- Command works on untracked files (not added to staging area yet)
- Hard filesystem deletion
- Works on files, not directories

https://www.atlassian.com/git/tutorials/undoing-changes/git-clean

git revert

git commit HEAD

Reverses most recent commit

git commit [commit ID]

Reverses changes made associated with a specific commit ID

git commit [commit ID] --no-edit

Will not open the editor. Default command will open editor

- Inverts changes made from the previous commit
- History of commits is not lost
- Good for shared repos

https://www.atlassian.com/git/tutorials/undoing-changes/git-revert

REWRITING HISTORY

git commit --amend

git commit --amend m [new commit message]*

Edit the commit message on last commit

git commit --amend --no-edit

Adding forgotten staged files to recent commit with no commit message

git commit --amend

Take most recent commit and add new staged changes to it

- Run when nothing is staged*

- Amended commits are new commits. Previous commit will no longer be available

- Don't use on public commits which other devs have based their work on

https://www.atlassian.com/git/tutorials/rewriting-history



By itsellej cheatography.com/itsellej/ Published 5th March, 2018. Last updated 5th March, 2018. Page 2 of 5.

Sponsored by Readable.com

Measure your website readability! https://readable.com

COLLABORATING AND SYNCING - GITHUB

Git remote

git remote

Check if you have any remote repositories. *Exception* - if you have cloned a repo, command will return original repo as a remote repo

git remote -v

Displays the full path to the remote repo

git remote add origin [github url]

Add a remote repo. Origin = name of remote repo. Can add alternative name instead of origin

git remote [url] [branch name]

Point remote branch to correct url

git remote rm [remote repo name]

Remove connection to remote repo specified

git remote rename [remote repo name] [new name]

Rename a remote repo

When you have multiple branches, you can:

 merge all branches into your local repo, and push to remote repo, or;

- push individual branches from local to remote repo

https://www.atlassian.com/git/tutorials/syncing#git-remote

Git fetch

git fetch [remote repo name]

Retrieve all branches from remote repo

git fetch [remote repo name] [branch]

Retrieve all commits on remote's (origin) master branch*. Use when both local and remote have changes the other does not have

git fetch --dry-run

Git commands Cheat Sheet by itsellej via cheatography.com/55812/cs/14830/

Git fetch (cont)

See changes to the remote repo before pulling into local repo

- Use to see what everybody else has been working on

- Fetched content is represented as a remote branch. Does not affect local repo

- Follow with git merge origin/master to merge remote repo changes to local repo

- Then push new merge commit back to the remote repo

- git push origin master

https://www.atlassian.com/git/tutorials/syncing#git-fetch

Git pull

git pull [remote repo]

Pull changes from remote repo to your local repo. Fast forward merge. Alternative is **git fetch**

git pull [remote repo]/[branch name]

Pull changes from remote repo branch to your local repo

git pull --rebase [remote repo]*

Pull and merge remote into local

- To be used if remote repo may have changes in the form of merged commits

- Git pull command = git fetch and git merge

- using rebase ensures a linear history by preventing unnecessary merge commits

- can use following command to ensure git pull uses rebase automatically, instead of merge:

git config --global branch.autosetuprebase always

https://www.atlassian.com/git/tutorials/syncing#git-pull

git push

git push [remote repo] [branch name]

Push commits from local repo to remote repo. *Example: git push* origin master

git push [remote repo] --all

Push commits from all local branches to remote repo

git push [remote repo] --tags*

Sends all of your local tags to the remote repository

- Tags are not automatically pushed with other git push commands

https://www.atlassian.com/git/tutorials/syncing#git-push



By **itsellej** cheatography.com/itsellej/ Published 5th March, 2018. Last updated 5th March, 2018. Page 3 of 5.

INSPECTING A REPOSITORY

Git shortlog & git log

git shortlog

Alphabetical list of names and commit messages made by each person

git shortlog -s -n

Displays the number of commits made next to each person's name

git log

Shows all commits made. Full history

git log — stat

Displays names of files changed during the commits

git log --graph

Visual representation of branches, including commits

git log --graph --oneline

Condensed visual representation of branches, including commits

git log -n [number]

Displays specified number of commits only

git log -p [commit id]

Displays changes made to the file(s)

git log -patch [commit id]

Displays changes made to the file(s)

git log -p -w

Ignores whitespace changes

git log -p [file/directory]

Displays change history of file or directory

git log --author=[name]

Filter by author name. Show only their commits

git log --author="full name"

Filter by author's full name. Show only their commits

git log --author="[person 1]\[[person 2]"

Show commits by either person 1 or person 2

git log --grep="Search term"

Show commits which contain the search term only in the commit message

git log --after="[date]"

Display commits made after a certain date

Sponsored by **Readable.com** Measure your website readability! https://readable.com

Git commands Cheat Sheet by itsellej via cheatography.com/55812/cs/14830/

Git shortlog & git log (cont)	USING BRANCHES
git logbefore="[date]"	
Display commits made before a certain date	
git logafter="[date]"before="[date]"	Git branch
Display commits made after but before a certain date	git branch
git log [file name 1] [file name 2]	List of branches in repository
Display history related to file or files	git branch [new branch name]
git logbranches= *	Creates a new branch
View commits across all branches	git branch [new branch name] [commit id]
Displays list of commits made.	Creates a new branch and points it to the commit specified
- Down arrow scrolls through commit history.	git branch -d [branch name]
- Press q to exit.	Deletes a branch. Use -D to force delete
- date format = yy-m-d	git branch -m [new name]
	Rename an existing branch
https://www.atlassian.com/git/tutorials/git-log	git branch -a
Git status	List all remote branches
git status	https://www.atlassian.com/git/tutorials/using-branches
List which files are staged, unstaged, and untracked.	Git checkout
Git show	git checkout [branch name]
git show	Switch to working on another branch
Display changes made in the last commit	git checkout -b [new branch name]
git show [commit id]	Create a new branch and switch to it
Display changes made in a specific commit	git checkout [commit id]
git show HEAD	Viewing how files were when the commit was created
Show details of the commit HEAD is currently pointing at	git checkout HEAD [filename]
	Use with unstaged changes. Restore file in working directory to how it is at the last commit
	https://www.atlassian.com/git/tutorials/using-branches/git-checkout
	Cit moreo

Git merge

git merge [branch name]

С

By **itsellej** cheatography.com/itsellej/ Published 5th March, 2018. Last updated 5th March, 2018. Page 4 of 5. Sponsored by **Readable.com** Measure your website readability! https://readable.com

Git commands Cheat Sheet by itsellej via cheatography.com/55812/cs/14830/

Git merge (cont)

[Branch name] is name of branch that will be merged into receiving branch (where HEAD is currently pointing to

- Integrate independent lines of development, created by git branch,

and integrate them into a single branch

- use git status to ensure HEAD is pointing to merge receiving branch

- use git fetch to ensure all branches are up to date with remote changes

https://www.atlassian.com/git/tutorials/using-branches/git-merge

OTHER

Git tag

git tag

Displays all current tags

git tag -a [new tag name]

Create a new tag at current commit

git tag -a [new tag name] [7 digits of commit id]

Create a new tag at a previous commit

git tag -d [tag name]

Delete a tag

- Purpose: to point out particular commits / make them stand out

- Example: label with a version number
- Tag stays locked to a commit

git rebase

git rebase -i HEAD~[num]

Merge a number [num] of commits*. Creates a new commit id

*HEAD points to the current location

By itsellej

cheatography.com/itsellej/

Published 5th March, 2018. Last updated 5th March, 2018. Page 5 of 5. Sponsored by Readable.com Measure your website readability! https://readable.com