



Git Tips And Tricks I wish I knew



INTRODUction



Meriem Zaid
@_iMeriem
#GitKraken

Overview:

- Git world
 - Github & UI
 - Tips to get along
 - Get help
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Github != Git

What is Git ?

Git is a version control system (VCS) for tracking changes in computer files

Once installed it can be initialized to a git repository

Who is Git ?

- Git was written by Linus Torvalds(Founder of Linux) in 2005 for the development of the Linux Kernel
- Open Source
- Used by a large continent of the software development community



Why is Git ?

Git records a snapshot of every record you make

If you stuff something up, you can go back and fix everything



Why is Github ?

It's a web-based interface that uses Git, the open source version control software that lets multiple people make separate changes to web pages at the same time

Tips to get along



**“Talk is
cheap. Show
me the code.”**

Linus Torvalds

.gitkeep

1. Create a folder with the **mkdir** command
2. Move into the empty folder with the **cd** command
3. Create the .gitkeep file with the '**touch .gitkeep**' command
4. Use **git add .** to update the Git index
5. Perform a **Git commit**
6. **Push** the empty Git folder to remote Git repositories

```
gitkeep@example:~$ mkdir empty-directory
gitkeep@example:~$ cd empty-directory
gitkeep@example:~$ touch .gitkeep
gitkeep@example:~$ git add .
gitkeep@example:~$ git commit -m "Commit empty folder in Git with
gitkeep"
gitkeep@example:~$ git push origin
```

Perform a shallow git clone

```
git clone --depth 5 https://github.com/cameronmcnz/my-github-repo.git
```

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- A shallow Git clone makes it easier to search the recent Git history and troubleshoot problems
 - Only the Git branch of interest is cloned
 - A long history of unneeded commits is not downloaded
 - The disk space used by a shallow Git clone is minimal
 - A shallow Git clone runs faster than a normal Git clone
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Git Stash merge conflict

```
$ git init
$ touch stash-pop-conflict.html
$ git add .
$ git commit -m "First commit"
```

```
$ echo "Hello World" >> stash-pop-conflict.html
$ git stash
$ echo "Goodbye World" >> stash-pop-conflict.html
$ git commit -a -m "Work Done!"
```

```
$ git stash pop
Auto-merging stash-pop-conflict.html
CONFLICT (content): Merge conflict in stash-pop-conflict.html
The stash entry is kept in case you need it again.
```

Advanced Git add

One command: `git add -p`

Speaking of that “p” flag

can also be used with ***git stash*** when you don't want to stash ***all files*** or the entirety of one file with changes



```
git config --global help.autocorrect 20
```

git: 'cmmit' is not a git command. See 'git --help'.

Did you mean this?

commit

Rebase Opsie

Using `git rebase` is an extremely valuable command, but sometimes, you accidentally rebase away a commit and start sweating

No More Blaming!

```
git config --global alias.investigate blame
```

(You can change *investigate* to whatever word you'd like)

Need Help ?

A scene from a movie showing two men in a futuristic, metallic environment. The man on the left is carrying the man on the right. The man on the right has a pained expression. The background features glowing blue and white geometric patterns.

Get help!

git help

git help tutorial

Wrapping up :/
