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DISSECTING GIT'S GUTS OSCON 2016 Command Cheatsheets

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git init	initialize a git repository
git hash-object -w [filename]	save given file to git database
git cat-file -p [SHA hash]	inspect git file. "p" stands for pretty, as in human readable
ls .git	see the contents of your .git directory

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git update-indexadd [path to file]	add a file to the index, aka the staging area
git ls-filesstage	examine all files in your staging area
git write-tree	write a tree object based on the index file, aka staging
find .git/objects -type f	list all of the objects in your git database

Note: if you are getting a message like: "fatal: This operation must be run in a work tree" it means that you are trying to run a command that requires you to be inside the working directory, but you have cd'ed into the .git folder. To fix this, cd back to your root directory and try running the command from there instead.

git log --stat [SHA HASH]

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echo 'your commit message here' git commit-tree [tree hash]	write a commit msg, create a commit out of a tree object	
find .git/objects -type f	list all of the objects in your git database	
git cat-file -p [SHA hash]	inspect git file. "p" stands for pretty, as in human readable	
git update-indexadd [path to file]	add a file to the index, aka the staging area	
git write-tree	write a tree object using what's in the index file aka staging	
echo 'your commit message here' git commit-tree [tree hash] -p [previous commit hash] write a commit msg, create a commit with it out of a tree object, and link it to a previous commit object. the -p stands for "parent"		

run a git log on a commit object

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ls .git/heads/refs	list everything in your refs folder
git update-ref refs/heads/master [commit hash]	create a master branch and save it into your refs directory
cat .git/refs/heads/[branch name]	read a branch file
git add .	porcelain command to add a new git file to staging
git commit -m "your commit message here"	porcelain command to commit your changes

DISSECTING GIT'S GUTS: MISC COMMANDS

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git cat-file -t [SHA hash]

inspect git file type. the "t" here stands for type