

Git Cheat Sheet

Prepare environment

Use global config

```
$ git config --global <key> <value>
```

Deal with CR/LF issues (Windows)

```
$ git config core.autocrlf true
```

Set name

```
$ git config user.name <name>
```

Set email (in case of SSH issues)

```
$ git config user.email <email>
```

Set alias

```
$ git config alias.<alias> <cmd>
```

Common aliases

st status

br branch

ci commit

co checkout

Create a repository

Create new local repository

```
$ git init <project_name>
```

Download from an existing repository

```
$ git clone <my_url>
```

Observe your repository

List new or modified files

```
$ git status
```

Show the changes to files not yet staged / staged

```
$ git diff [--cached]
```

Show all changes

```
$ git diff HEAD
```

Show the changes between two commits

```
$ git diff <commit_id1> <commit_id2>
```

List the change dates and authors to a file

```
$ git blame <file>
```

Show the file changes for a commit id and/or file

```
$ git show <commit>:<file>
```

Show full change history

```
$ git log
```

Show change history for a file/directory including diffs

```
$ git log -p <file/directory>
```

Show modify/delete conflict – deleted by me

```
$ git diff ...origin/master - <file>
```

Show modify/delete conflict – deleted by them

```
$ git diff origin/master... - <file>
```

Working with branches

List all local (local and remote) branches

```
$ git branch [-av]
```

Switch to a different branch

```
$ git checkout <branch_name>
```

Switch to a new branch

```
$ git checkout -b <branch_name>
```

Create a new branch

```
$ git branch <branch_name>
```

Delete a branch

```
$ git branch -d <branch_name>
```

Delete a remote branch

```
$ git push <origin> --delete  
<branch_name>
```

Merge a branch into the current branch

```
$ git merge <branch_name>
```

Merge a branch into the current branch without using fast-forward

```
$ git merge --no-ff <branch_name>
```

Tag the current branch

```
$ git tag <tag>
```

Make a change

Stage a file, ready for commit

```
$ git add <file>
```

Add all files

```
$ git add --all
```

Commit all staged (tracked) files

```
$ git commit [-a] -m "commit message"
```

Change last commit

```
$ git commit --amend
```

Unstage file, keeping the file changes

```
$ git reset <file>
```

Revert everything to the last commit

```
$ git reset --hard
```

Synchronize

Get the latest changes without merge

```
$ git fetch
```

Fetch the latest changes and merge

```
$ git pull
```

Fetch the latest changes and rebase

```
$ git pull -- rebase
```

Push local changes (and set upstream for later use)

```
$ git push [-u <upstream> <branch>]
```

Stash

Save local changes into stash

```
$ git stash
```

Apply changes from stash

```
$ git stash apply
```

Save local changes as a new stash

```
$ git stash save
```

List all the stashes

```
$ git stash list
```

Clears all the stashes

```
$ git stash clear
```

