

# Git Cheat Sheet

## Documentation (<http://progit.org/book/>)

```
git help [cmd]
```

## For SVN Users

### Tracking Projects

```
git clone url      svn checkout url
git pull           svn update
```

### Create Repository

```
git init          svnadmin create repo
git add .         svn import file://repo
git commit
```

### Files

```
git add file      svn add file
git rm file       svn rm file
git mv file       svn mv file
```

### Committing

```
git commit -a     svn commit
```

### Browsing

```
git log           svn log | less
git blame file    svn blame file
git diff          svn diff | less
```

## Getting Started

### Setup

```
Install: sudo port install git-core +svn
Name:    git config --global user.name \
        "Nate Murray"
Email:   git config --global user.email \
        "nate@xcombinator.com"
```

### First Repo

```
cd ~
mkdir -p projects/demo
cd projects/demo
git init
git status
ls -a
echo "version 1" > test.txt
git status
git add test.txt
git status
git commit -m "added version one"
git status
```

### Aliases

```
st: git config -global alias.st status
ci: git config -global alias.ci commit
ca: git config -global alias.ca commit -a
```

## GUI

```
Commits: gitx
Merge:    git mergetool -t opendiff
```

## Internals

```
View Log: git log
Show:     git show a8dn3 # sha
Cat:     git cat-file -p 9s2j # sha
```

## Branching & Merging

```
List:      git branch
Create:    git branch testing
Checkout:  git checkout testing
           # work, make some commits
Back:     git checkout master
Merge:    git merge testing
Create:    git checkout -b new-branch
Delete:   git branch -d new-branch
```

## Managing Remotes

```
Clone:    git clone url
List:     git remote -v
Send:     git push
           git push origin master
Recv:    git pull
           git pull origin master
Add:     git remote add name url
Fetch:   git fetch name
Checkout: git checkout name/master
```

## 3 Principles

1. (Almost) everything is local
2. Git commits are snapshots
3. Branching is cheap, use it often

## Next Steps

```
git tag name
git rebase commit
git cherry-pick commit
git bisect
git-svn
hooks
tracking branches
submodules
interactive staging
squashing commits
repository hosting
patches via email
gitjour
```

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\$Revision: 1.1, \$Date: August 31, 2010

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See also: <http://book.git-scm.com/>

<http://git.or.cz/course/svn.html>

Based on Steve Taylon's Clojure Cheat Sheet