

# Git Cheat Sheet

## What I just learned about Git

### Settings

- list Git configuration:

```
git config --list
```

- set configuration:

```
git config --global --add user.name "John Doe"  
git config --add color.ui "auto"
```

--global makes the setting global for all repos.

- show configuration:

```
git config --get user.name
```

- some common settings:

name	meaning
user.name	User name.
user.email	User email.
color.ui	Use colors?
core.editor	Which editor to use?

### Local use

- Create a repository:

```
cd projDir  
git init
```

- Add files to repository:

```
cd projDir  
git add file1 file2
```

or

```
git add *
```

- Status and log:

```
git status  
git log
```

- Commit changes:

```
git commit changedFile -m "Commit message."
```

or

```
git commit -a
```

(opens editor and allows to change the commit message)

- remove file from version control:

- also remove file from disk:

```
git rm file
```

- keep file on disk:

```
git rm --cached file
```

- go back to last committed version:

```
git checkout
```

## Usage with central repository

- Create a repository on central server:

```
git init --bare --shared foo.git  
chgrp -R dev foo.git (optional)
```

shared makes the repo group writable.

- push local repo to server:

```
cd localRepo  
git push ssh://user@host.domain.tld/home/user/foo.git '*:*
```

(this pushes the local repo with everything to the server)

- after hacking, update repo on server:

```
cd localRepo  
git push
```

## GitHub

- create repository repoName from the web interface
- teach local repository about the remote one:

```
cd repoName  
git remote add origin git@github.com:githubuser/repoName.git
```

- push files to GitHub:

```
cd repoName  
git push
```

- to clone the GitHub repo:

```
git clone git@github.com:githubuser/repoName.git newRepo
```

- push changes back to GitHub:

```
cd repoName  
git push
```

## Links

- Git community book <http://book.git-scm.com/>
- Git with central sever: <http://toroid.org/ams/git-central-repo-howto>

## TODO

- stashes
- notions (staging, head...)
- learn about branches