

## start

```
git config [--system --global --local]
[--add user.name "A.Khmelev" user.email a@it.by]
[--list]
```

```
git init - create local repo
```

```
git status - current state repo
```

## commit

```
git diff [-- staged]- diff work area / stage
```

```
git add filename
```

```
git commit --[a]m[end] (message)
  a = all in work area, amend = fix last commit
```

```
git restore filename - revert to last commit
```

```
git log [-p] history  p = with details
```

```
git blame file - history one file and see authors
-L 1,5 strings1-5 -e email -M moved -C copy
```

## move and remove

```
git mv from to - move/rename
```

```
git rm [--cached] name - remove cached = only from index
```

## branches

```
git branch [-d] bugfix - new branch d = delete D = delete in any case
```

```
git branch --all - view all branches
```

```
git merge/rebase bugfix - (merge or rebase bugfix to master)
```

## remote

```
git clone "path as https:// or git@ ... /Name" && need cd Name
  https==user/password    git==ssh need github_rsa.pub (see below)
```

```
git push --set-upstream origin master (default target for just push)
```

```
git push/pull origin master (pull==fetch+checkout)
```

```
git push --all (all branches -> remote)
```

```
git push --tags (all tags -> remote)
```

```
git tag name (light tag) git tag -a name - m "message" (annotated tag)
```

## ssh (from git bash)

```
cd ~/.ssh
ssh-keygen -t github_rsa (github_rsa.pub -> add to ssh key github)
```

```
vim config
Host github github.com
  HostName github.com
  User git
  IdentityFile ~/.ssh/github_rsa
:x
```