

### Installation and setup

<https://git-scm.com/downloads>

```
git config --global user.name "John Doe"
```

```
git config --global user.email johndoe@example.com
```

### Get repository

```
git clone <url>           use ssh not https
```

```
git init                 new local repository
```

### Basic workflow

```
what I have edited      git status
```

```
mark for commit (move to green)  git add <file>
```

```
commit from staging (green area)  git commit
```

```
look at my commit in history      git log
```

```
push to server              git push origin
                             <branch>
```

```
download and merge latest server  git pull origin
work                               <branch>
```

### Resolve conflict

```
see conflicting files      git status
```

```
abort merge               git merge --abort
```

```
accept only my changes    git checkout --ours <file>
```

```
accept only incoming changes  git checkout --theirs <file>
```

```
mark conflict as resolved  git add <file>
```

```
finish merge              git commit
```

### Branching

```
create and switch to branch      git checkout -b <name>
```

```
list local branches             git branch
```

```
switch active branch           git checkout <name>
```

```
merge branch                    git merge <name>
```

```
delete branch                   git branch -D <name>
```

### Tag

```
new tag                          git tag <name>
```

```
list of tags                     git tag
```

```
remove tag                       git tag -d <name>
```

### Remove edits

```
from stage to changes (green to red)  git reset HEAD <file>
```

```
remove edits                     git checkout <file>
```

### Stash

```
move edits to stash              git stash
```

```
apply topmost stashed edits      git stash apply
```

```
clear stash                       git stash clear
```

### Tips

```
get branch to server state      git reset --hard
                                origin/<branch>
```

```
load up sources from prev.      git checkout HEAD^
commit
```

