

# Introduction to Git

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# Initial Setup

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

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

# Clone

```
$ git clone repo_url
```

# Stage, commit and push

Stage

```
git add repo/filename
```

Commit

```
git commit -m "commit message"
```

Push

```
git push
```

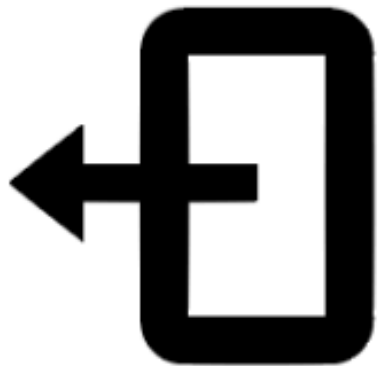
# In case of fire



1. `git commit`



2. `git push`



3. `leave building`

# Gitignore (python example)

.gitignore

```
# Byte-compiled / optimized / DLL files
__pycache__/  
*.py[cod]  
*$py.class
```



# Diff

```
$ git diff filename
```

# Conflicts

Conflicts are solved

- automatically by git when they do not affect the same lines of code
- or manually by you when they affect the same line of code



# Branch

Create a branch

```
$ git branch branch_name
```

Switch to that branch

```
$ git checkout branch_name
```

First commit on a branch

```
$ git push origin branch_name
```

```
$ git pull origin branch_name
```

# **GIT MERGE**



# Merge

## **Always merge the master into the dev branch first**

- Step 1 : merge master into branch  
`$ git merge master`
- Step 2 : solve conflicts (if any)
- Step 3 : merge branch into master (no conflict this time)  
`git checkout master`  
`git merge development`