Basic git commands

◼◼ How to initialize git for directory as local git repository?

```
~$ git init
~$ git init <repo-name>
```

> 👉 : repo-name = specify directory for local git repository

◼◼ How to configure git to user ?

```
~$ git config --global user.name <user-name>
~$ git config --global user.email <user-email>

~$ git config --local user.name <user-name>
~$ git config --local user.email <user-email>
```

> 👉 : flag {global} for all repositories

> 👉 : flag {local} for specific repository

> 👉 : user-name = specify user name

> 👉 : user-email = specify user email address

◼◼ How to show tracking of files ?

```
~$ git status
```

◼◼ How to clone git repository from remote server?

```
~$ git clone <repo-url>
```

> 👉 : repo-url = remote repository url

◼◼ How to staged changes in files (i.e. ready to commit) ?

```
~$ git add <file-name>
~$ git add .
```

> 👉 : file-name = specify file name or use "." to specify all files

▮▮ How to commit staged changes ?

```
~$ git -commit -m "message"
```

> 👉 : message = use present tenses recommended

▮▮ How to create main branch ?

```
~$ git branch -M main
~$ git remote add origin <repo-url>
```

> 👉 : repo-url = specify repository url to create main branch

▮▮ How to push commits to main branch ?

```
~$ git push -u origin main
```

▮▮ How to create new branch ?

```
~$ git branch -b <branch-name>
```

> 👉 : branch-name = specify name of branch

▮▮ How to push commits to specific branch ?

```
~$ git push -u origin <branch-name>
```

▮▮ How to change branch (i.e. hopping between branches) ?

```
~$ git checkout <branch-name>
```

▮▮ How to check all git commits which are not in local branch ?

```
~$ git fetch origin
```

▮▮ How to pull all changes to local branch ?

```
~$ git pull origin <branch-name>
```

◻◼ How to initialize and checkout branch ?

```
~$ git checkout -b <branch-name>
```

◻◼ How to merge another branch into current branch ?

```
~$ git merge <branch-name>
```

◻◼ How to show all conflicts between branches before merging them ?

```
~$ git diff
```

◻◼ How to mark specific commits ?

```
~$ git tag <commit-tag>
```

> 👉 : commit-tag = specify tag to recognize commit

◻◼ How to undo changes ?

```
~$ git revert
```

◻◼ How to reset branch to last commited state ?

```
~$ git reset --hard HEAD
```

◻◼ How to remove file from current repository ?

```
~$ git rm <file-name>
```

◻◼ How to keep commit to side tray for further use ?

```
~$ git stash
```

◻◼ How to use side tray commit into current branch?

```
~$ git stash pop
```