

## GIT cheatSheet 👍

Git cheat sheet tailored for Software Development Engineer in Test (SDET) perspective.

Git is a widely used version control system that helps you manage and track changes in your codebase. This cheat sheet covers basic Git commands and concepts that are useful for SDET tasks:

### Basic Commands:

#### 1. Clone a Repository:

```
git clone <repository_url>
```

#### 2. Check Repository Status:

```
git status
```

#### 3. Stage Changes:

```
git add <file_name>
```

#### 4. Commit Changes:

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

#### 5. Push Commits to Remote:

```
git push origin <branch_name>
```

#### 6. Pull Latest Changes:

```
git pull origin <branch_name>
```

#### 7. Create a New Branch:

```
git checkout -b <new_branch_name>
```

#### 8. Switch Branches:

```
git checkout <branch_name>
```

#### 9. Merge Branches:

```
git checkout <target_branch>  
git merge <source_branch>
```

### Working with Remote:

#### 1. Add a Remote Repository:

```
git remote add <remote_name> <repository_url>
```

#### 2. List Remote Repositories:

```
git remote -v
```

#### 3. Push Branch to Remote:

```
git push <remote_name> <branch_name>
```

## Viewing History and Differences:

### 1. View Commit History:

```
git log
```

### 2. View Changes in a Specific Commit:

```
git show <commit_hash>
```

### 3. View Differences Between Branches:

```
git diff <branch1>..<branch2>
```

## Undoing Changes:

### 1. Undo Last Commit (Keep Changes):

```
git reset HEAD~1
```

### 2. Discard Changes in Working Directory:

```
git checkout -- <file_name>
```

## Advanced Topics:

### 1. Rebase Interactive Mode (Combine, Edit, Reorder Commits):

```
git rebase -i <base_commit>
```

## 2. Cherry-pick a Commit from Another Branch:

```
git cherry-pick <commit_hash>
```

## 3. Stash Changes:

```
git stash
```

```
git stash pop
```

you can explore more advanced commands and strategies. It's also recommended to refer to the official Git documentation for a comprehensive understanding: <https://git-scm.com/docs>