Git Reset Command Guide

1. Basic `git reset`

- **Command:** `git reset <commit>`
- **Use:** Moves the current branch pointer to a specified commit. Changes in working directory or staging area may remain depending on options.
- **Example:**

```
git reset a1b2c3d4
```

2. `git reset --soft <commit>`

- **Use:** Moves HEAD to the specified commit but **keeps all changes staged**.
- **Example:**

```
git reset --soft a1b2c3d4
```

3. `git reset --mixed <commit>` *(default)*

- **Use:** Moves HEAD to the specified commit and **unstages changes**, but keeps them in the working directory.
- **Example:**

```
git reset --mixed a1b2c3d4
```

4. `git reset --hard <commit>`

- **Use:** Moves HEAD to the specified commit and **discards all changes** in staging area and working directory.
- **Example:**

```
git reset --hard a1b2c3d4
```

5. Resetting a single file

- **Use:** You can reset a single file instead of the entire commit.
- **Example:**

```
git reset HEAD file.txt
```