Cheat Sheet for Git and GitHub Commands

1. Check Git version:
   `git --version`

2. Configure user name and email globally:

```
git config --global user.name "Vaibhav Singh"
git config --global user.email "vaibhav@gmail.com"
```

3. Initialize a Git repository in a directory:
   `git init`

4. Check the status of files: `git status`

5. Add all files in the current directory to the staging area: `git add --all`

6. Commit changes with a message: `git commit -m "Hello World!"`

- Commit changes directly, skipping the staging area: `git commit -a -m "Hello World!"`

7. View commit history: `git log`

8. Create a new branch: `git branch <branch-name>`

9. Switch to a newly created branch: `git checkout <branch-name>`

10. Merge a branch into the current branch:

```
git checkout master # Move to master
git merge <newly created branch name>
```

Git and GitHub Integration:

1. Add a remote repository as the origin: `git remote add origin <github-repo-url>`

2. Push the master branch to the origin repository and set it as the default remote branch:

`git push --set-upstream origin master`

3. Fetch updates from the remote repository:

`git fetch origin`

4. Show differences between local master and origin/master:
   `git diff origin/master`
5. Merge the current branch with origin/master:
   `git merge origin/master`

Keeping Your Local Copy Up-to-Date:

6. Pull changes from a remote repository into the current branch:
   `git pull origin`

Git Undo:

7. Reset the repository to a previous commit (discarding changes after that commit):
   `git reset <hash-key>`
8. Revert a previous commit, keeping the commit history intact:
   `git revert <hash-key>`
9. Amend the latest commit with changes in the staging area:
   `git commit --amend -m "Added lines to README.md"`

These commands cover a wide range of Git and GitHub operations and should help you get started with version control and collaboration on Git projects. Remember to replace placeholders like `<branch-name>` and `<github-repo-url>` with actual branch names and URLs as needed.