Git Essential Commands

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1. Introduction

This document provides a concise guide to essential Git commands that will help you manage your projects effectively.

2. Configuration Commands

Set User Name

```
git config --global user.name "Your Name"
```

• Set User Email

```
git config --global user.email "you@example.com"
```

View Configuration

```
git config --list
```

3. Repository Commands

• Initialize a New Repository

git init

• Clone a Repository

git clone <repository-url>

4. Branching Commands

• List Branches

git branch

• Create a New Branch

git branch <branch-name>

Switch Branches

git checkout <branch-name>

• Create and Switch Branch

git checkout -b <branch-name>

• Delete a Branch

git branch -d <branch-name>

5. Staging and Committing

Stage Changed Files

```
git add <file>
```

• Stage All Changes

```
git add .
```

• Commit Changes

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

• Amend Last Commit

```
git commit --amend
```

6. Remote Repository Commands

• Add a Remote Repository

```
git remote add <name> <url>
```

• View Remote Repositories

```
git remote -v
```

Push Changes

```
git push <remote> <branch>
```

Pull Changes

```
git pull <remote> <branch>
```

Fetch Changes

git fetch <remote>

7. Viewing Commands

Show Status

git status

• Show Commit History

git log

• Show Changes

git diff

• Show a Specific Commit

git show <commit-id>

8. Help Commands

• Get Help for Git Commands

git help <command>

• Get Help for Git in General

git --help

9. Conclusion

Git is a powerful tool for version control that allows you to manage code changes effectively. The above commands are essential for anyone looking to start using Git or improve their workflow.