## Git Cheat Sheet for First-Time Users on Linux

### Installation

* **Ubuntu/Debian Installation:**
* sudo apt-get update  
  sudo apt-get install git
* This command updates your package lists and installs Git.
* **Fedora Installation:**
* sudo dnf install git
* This command installs Git on Fedora.

### Configuration

* **Set Your Name:**
* git config --global user.name "Your Name"
* This sets your name for all Git commits.
* **Set Your Email:**
* git config --global user.email "you@example.com"
* This sets your email for all Git commits.

### Basic Commands

* **Initialize a New Git Repository:**
* git init
* This initializes a new Git repository in the current directory.
* **Clone an Existing Repository:**
* git clone https://github.com/user/repo.git
* This clones (downloads) a repository from the specified URL.
* **Add Files to Staging Area:**
* git add .
* This adds all changed files in the current directory to the staging area.
* **Commit Changes:**
* git commit -m "Commit message"
* This commits all staged changes along with a commit message.
* **Push Changes to Remote Repository:**
* git push origin master
* This pushes all committed changes to the master branch of the remote repository.
* **Pull Changes from Remote Repository:**
* git pull origin master
* This pulls all changes from the master branch of the remote repository to your local repository.

### Branching

* **Create a New Branch:**
* git checkout -b branch-name
* This creates a new branch and switches to it.
* **Switch to an Existing Branch:**
* git checkout branch-name
* This switches to an existing branch.
* **Delete a Branch:**
* git branch -d branch-name
* This deletes a specified branch.

### Viewing Changes

* **View Changes to Files:**
* git status
* This shows the status of changes as untracked, modified, or staged.
* **View Differences Between Files:**
* git diff
* This shows the line differences between the staged and the latest version.

### Help

* **Get Help on Git Commands:**
* git help command-name
* This provides help for a specific Git command.