Quick reference guide to Git

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This mini-tutorial will help you on basic Git commands for working with remotes. This mini-guide can, in principle be updated periodically as I find more useful commands.

1. Working with your Remotes

1.1. Cloning your Remotes

First, cd to your project directory. Then type the following:

```
git clone https://github.com/ezitoc/MySimpleScripts.git
```

This will create a new folder at the current working directory called MySimpleScripts. This is similar to checkout command from Subversion. Now if you run:

```
git remote -v
```

this will show:

```
origin https://github.com/ezitoc/MySimpleScripts.git
```

which is the URL that Git has stored for the shortname to be expanded to:

1.2. Adding Remote Repositories

Let's say you want to add a Remote but this time with a different shortname, for example, ezitoc (be aware, you are creating a new project, if you just want to rename, there is a special command for this). You should type:

Now, by running:

```
git remote -v
```

you will get:

```
ezitoc https://github.com/ezitoc/MySimpleScripts.git
```

1.3. Renaming and removing a Remote

For renaming you will have to enter the following:

```
git remote rename origin ezitoc
```

For removing just type:

```
git remote rm ezitoc
```

1.4. Fetching and pulling

Some definitions:

- **Fetch:** pulls the data to your local repository but it doesn't automatically merge it with any of your work or modify what you're currently working on.
- Pull: if you have a branch set up, automatically fetch and merge a remote branch into your current branch.

To get data from your remote projects, you can run:

```
git fetch ezitoc
```

To pull data from your remote projects, you can run:

```
git pull ezitoc
```

1.5. Creating new files

In order to start tracking new files you can write:

```
git add filename
```

Once you have modified filename you will need to stag it, before you push changes.

1.6. Staging files

To change a file that was already tracked you have to use the multi-purpose command add to stag files.

git add filename

1.7. Committing

Once you have set up your stagging area, you will need to run:

git commit

and you will be redirected to your editor. Before exiting you must specify a commit message. You can also set the -v flag to which the diff will be included in your commit message. Besides this, you can pass the inline flag -m and a message between quotes to be included in the commit message, which will result in no redirection to your editor.

Once you have commit your changes, you will need push the changes to the server repository.

1.8. Pushing

When you want to share your work or back up, you will have to run:

git push ezitoc master

where master is your master-branch (which is set by default when using the clone command). This command works if you cloned from a server to which you have write access and nobody have push in the meantime.