

# Github Project: Git Commands Documentation Template

## Programming for Data Science Nanodegree Program

You will use this template to copy and paste the git commands you used to complete all tasks on your local and remote git repository for this project. This file will serve as your submission for the GitHub project.

### Instructions:

1. Make a copy of this Git Commands Documentation template on your Google Drive.
2. Complete the four sections in this document with the appropriate git commands.
3. Download this document as a PDF file.
4. Submit this on the Project Submission page within the Udacity Classroom.

# 1. Set Up Your Repository

The following are the steps you will take to create your git repository, add your python code, and post your files on GitHub.

Step 1. Create a GitHub profile (if you don't already have one).

Step 2. Fork a repository from Udacity's [GitHub Project repository](https://github.com/Udacity/pdsnd_github/tree/master) and provide a link to your forked GitHub repository here:

GitHub Repository Link
<a href="https://github.com/AhmadAbdElhameed/pdsnd_github/tree/master">https://github.com/AhmadAbdElhameed/pdsnd_github/tree/master</a>

Step 3. Complete the tasks outlined in the table below and copy and paste your git commands into the "Git Commands" column. The first git command is partially filled out for you.

	Tasks	Git Commands
A.	Clone the GitHub repository to your local repository.	git clone <a href="https://github.com/AhmadAbdElhameed/pdsnd_github/tree/master">https://github.com/AhmadAbdElhameed/pdsnd_github/tree/master</a>
B.	Move your bikeshare.py and data files into your local repository.	No git command needed (you can use <b>cp</b> or a GUI)
C.	Create a .gitignore file containing the name of your data file.	No git command needed (you can use <b>touch</b> or a GUI)
D.	List the file names associated with the data files you added to your .gitignore	No git command needed (add the file names into your .gitignore file)
E.	Check the status of your files to make sure your files are not being tracked	\$ git status
F.	Stage your changes.	\$ git add
G.	Commit your changes with a descriptive message.	\$ git commit -m "Add new file bikeshare.py"
H.	Push your commit to your remote repository.	\$ git push origin master

## 2. Improve Documentation

Now you will be working in your local repository, on the BikeShare python file and the README.md file. You should repeat steps **C** through **E** three times to make at least three commits as you work on your documentation improvements.

	Tasks	Git Commands
A.	Create a branch named <i>documentation</i> on your local repository.	\$ git branch documentation
B.	Switch to the <i>documentation</i> branch.	\$ git checkout documentation
C.	Update your README.md file.	<b>No git command needed (edit the text in your README.md file)</b>
D.	Stage your changes.	\$ git add README.md
E.	Commit your work with a descriptive message.	\$ git commit -m "Change README.md documentation"
F.	Push your commit to your remote repository branch.	\$ git push origin documentation
G.	Switch back to the master branch.	\$ git checkout master

### 3. Additional Changes to Documentation

In a real world situation, you or other members of your team would likely be making other changes to documentation on the documentation branch. To simulate this follow the tasks below.

	Tasks	Git Commands
A.	Switch to the <i>documentation</i> branch.	\$ git checkout documentation
B.	Make at least 2 additional changes to the documentation - this might be additional changes to the README or changes to the document strings and line comments of the bikeshare file.	<pre>Author: Ahmad Abdelhameed &lt;Abdelhameed9@yahoo.com&gt; Date: Tue Jan 5 15:30:26 2021 +0200  Adding description about project in bikeshare.py  diff --git a/bikeshare.py b/bikeshare.py index 74b9efc..03c1aea 100644 --- a/bikeshare.py +++ b/bikeshare.py @@ -4,7 +4,7 @@ import numpy as np --- a/bikeshare.py +++ b/bikeshare.py @@ -4,7 +4,7 @@ import numpy as np  ### Description ''' #####      US Bike Share ##### +#####      Explore US Bikeshare Data ##### Over the past decade, bicycle-sharing systems have been growing in number and popularity in cities across the world. Bicycle-sharing systems allow users to rent bicycles on a very short-term basis for a price. This allows people  commit ed2b0c21fbb260b20b8d8f62b42d786652 fb4620 Author: Ahmad Abdelhameed &lt;Abdelhameed9@yahoo.com&gt; Date: Tue Jan 5 15:21:50 2021 +0200</pre>

		<p>Adding project title in README.md</p> <pre> diff --git a/bikeshare.py b/bikeshare.py index 7fa66bd..74b9efc 100644 --- a/bikeshare.py +++ b/bikeshare.py @@ -2,7 +2,16 @@ import time import pandas as pd import numpy as np  - +### Description +""" +#####      US Bike Share +##### +Over the past decade, bicycle-sharing systems have been growing in number and +popularity in cities across the world. Bicycle-sharing systems allow users +to rent bicycles on a very short-term basis for a price. This allows people +to borrow a bike from point A and return it at point B, though they can also +return it to the same location if they'd like to just go for a ride. +Regardless, each bike can serve several users per day. +"""  CITY_DATA = { 'chicago': 'chicago.csv',               'new york city': 'new_york_city.csv', diff --git a/doc/Git Commands Documentation.pdf b/doc/Git Commands Documentation.pdf new file mode 100644 index 0000000..1c94fa6 --- /dev/null +++ b/doc/Git Commands Documentation.pdf </pre> <p>ed2b0c2 Adding project title in README.md</p> <p>* 99a6658 Change README.md documentation</p>
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		<ul style="list-style-type: none"> <li>* c840e35 (HEAD -&gt; master, origin/master, origin/HEAD) Add new file bikeshare.py</li> <li>* 050f77e removing files</li> <li>* cbacfdb Add new file bikeshare</li> <li>* b0fe5e3 removing files</li> <li>* 38f0c55 Adding gitignore file</li> <li>* c7206f4 Adding description for trip_duration_stats function</li> <li>* 017d8d6 Add intro for the project</li> <li>* 0d73113 Adding documentation file Git Commands Documentation.pdf</li> <li>* af59c8d Adding project files</li> <li>* 65212ad Add new file bikeshare</li> <li>* 46a5819 Create README.md</li> </ul>
C.	After each change, stage and commit your changes. When you commit your work, you should use a descriptive message of the changes made. Your changes should be small and aligned with your commit message.	<pre>\$ git add README.md \$ git commit -m "Adding project title in README.md" \$ git commit -m "Edit date in README.md" \$ git add bikeshare.py \$ git commit -m "Adding description about project in bikeshare.py"</pre>
D.	Push your changes to the remote repository branch.	<pre>\$ git push origin documentation</pre>
E.	Switch back to the <i>master</i> branch.	<pre>\$ git checkout master</pre>
F.	Check the local repository log to see how <i>all the branches</i> have changed.	<pre>\$ git log --oneline --graph --all</pre>
G.	Go to Github. Notice that you now have two branches available for your project, and when you change branches the README changes.	<b>No git command needed</b>

## 4. Refactor Code

Now you will be working in your local repository, on the code in your BikeShare python file to make improvements to its efficiency and readability. You should repeat steps **C** through **E** three times to make at least three commits as you refactor.

	Tasks	Git Commands
A.	Create a branch named <i>refactoring</i> on your local repository.	\$ git checkout -b refactoring
B.	Switch to the <i>refactoring</i> branch.	\$ git checkout -b refactoring
C.	Similar to the process you used in making the documentation changes, make 2 or more changes in refactoring your code.	<b>No git command needed (edit the code in your python file)</b>
D.	<i>For each change</i> , stage and commit your work with a descriptive message of the changes made.	\$ git commit -m " Adding author name and email " \$ git commit -m "Adding author name to README.md"
E.	Push your commits to your remote repository branch.	\$ git push origin refactoring
F.	Switch back to the <i>master</i> branch.	\$ git checkout master
G.	Check the local repository log to see how <i>all the branches</i> have changed.	\$ git log --graph --all --oneline
H.	Go to GitHub. Notice that you now have 3 branches. Notice how the files change as you move through the branches.	<b>No git command needed</b>

## 5. Merge Branches

	Tasks	Git Commands
A.	Switch to the <i>master</i> branch.	\$ git checkout master
B.	Pull the changes you and your coworkers might have made in the passing days (in this case, you won't have any updates, but pulling changes is often the first thing you do each day).	\$ git pull origin
C.	Since your changes are all ready to go, merge all the branches into the master. Address any merge conflicts. If you split up your work among your branches correctly, you should have no merge conflicts.	\$ git merge refactoring \$ git merge documentation
D.	You should see a message that shows the changes to the files, insertions, and deletions.	<b>No git command needed</b>
E.	Push the repository to your remote repository.	\$ git push origin
F.	Go to GitHub. Notice that your master branch has all of the changes.	<b>No git command needed</b>

### Submission:

This concludes the project.

- Please review this document to make sure you entered all the required response fields in all four sections.
- Download this document as a PDF file.
- Submit the PDF file on the Project Submission page within the Udacity Classroom.