Pygame Mini-Project Documentation

Pragati Kumar Singh

June 2017

Contents

1 Introduction

First of all, I have taken the project-named Pygame-Miniproject under guidance of Milind Luthra from Programming Club, IIT Kanpur. This project mainly focuses on the Python and its open source Pygame Library.

2 Preparation

This section tells about how I started to head into the project and also what tasks I completed before heading into the project.

2.1 Getting in touch with Python

I started learning python from the book *Learn Python The Hard Way*.

The book is titled "Hard Way" which means by "practicing hard". The book is divided in small exercises and, one has to type in and run the code, and debug if error occured. I have typed almost all the exercises needed for the project (upto around 45) and made each code run perfectly. All the codes typed by me can be found here.

Most of the keywords and syntax are easy enough to understand. I took me some time to understand some of the syntax such as self,init method,super.

2.2 Getting in touch with Pygame Library

Python comes pre-installed in Linux machines.
For installing pip which is useful for downloading many of the free open source libraries of Python, type the follwing command in terminal and give the password when prompted.

sudo apt install pip

Then for installing pygame library use the command:

sudo pip install pygame

Then I watched Pygame Tutorial from Youtube. Whose link can be found here. Along with that tutorial , I created my first game with the help of pygame library in Python, whose code and files needed to run the game can be found here.

2.3 Learning to use Git and Github

Git is something which is used to track the modifications of files or repositories(or just say folders). Github is online platform for the same. And also both can be synced very easily. To clone a github repository on a machine with git installed just type the command :

git clone link-for-cloning-online-repo

Link for cloning a online repo is present in the online repo itself. If changes are made in online repo, then for syncing again, we have to open terminal in the cloned directory an type in the command:

git pull

After modifying/adding files in clone repo, to make changes online ,we have to type in 3 commands:

git add .
git commit -m "any comment you want"
git push

When we type git push user name and password for the online github account is required.

2.4 Using Latex

LaTeX is a tool used to create professional-looking documents. I needed to learn this because I had to keep the record of what I done during and before the project, so that it may help someone in future, who is taking a similar project. One can learn latex from here. One can create his LaTeX project online after creating an online account on ShareLatex.com or some GUI softwares such as *Texmaker* (for Linux) or any other available. Even this Document is created through LaTeX and its code can be found here.

3 Conclusion