

Turtle Tkinter Matplotlib Python Imaging Library Pyglet Python Numpy Pandas Python Database

How to create an empty PyGame window?

Last Updated: 21 Apr, 2021

Pygame window is a simple window like any other window, in which we display our game screen. It is the first task we do so that we can display our output onto something. Our main goal here is to create a window and keep it running unless the user wants to quit. To perform these tasks first we need to install pygame package and import some pre-defined functions inside it.

Installation

To install this module type the below command in the terminal.

pip install pygame

Stepwise Implementation:

Step 1: First we import and initialize all imported modules. We use import pygame to import all modules and .init() function to initialize those modules.

```
import pygame
pygame.init()
```

Step 2: Initialize a window to display. We use .set_mode() function to create a window. We pass the width and height of our window as parameters to set_mode() function.

```
pygame.display.set_mode((width_of_window,height_of_window))
```

Step 3: Keep that window running until the user presses the exit button. We use a variable that is true unless the user presses the quit button. To keep the game running we use a while loop and check our variable if it is true or not.

running = True

while running:

```
for event in pygame.event.get():
    if event.type == pygame.QUIT:
        running = False
```

Complete Code:

Python3

```
# import pygame package
import pygame
# initializing imported module
pygame.init()
# displaying a window of height
# 500 and width 400
pygame.display.set_mode((400, 500))
# creating a bool value which checks
# if game is running
running = True
# keep game running till running is true
while running:
    # Check for event if user has pushed
    # any event in queue
    for event in pygame.event.get():
        # if event is of type quit then
        # set running bool to false
        if event.type == pygame.QUIT:
            running = False
```

Output:



Looking to dive into the world of programming or sharpen your Python skills? Our Master Python: Complete Beginner to Advanced Course is your ultimate guide to becoming proficient in Python. This course covers everything you need to build a solid foundation from fundamental programming concepts to advanced techniques. With hands-on projects, real-world examples, and expert guidance, you'll gain the confidence to tackle complex coding challenges. Whether you're starting from scratch or aiming to enhance your skills, this course is the perfect fit. Enroll now and master Python, the language of the future!



Previous Article Next Article

How to initialize all the imported modules How to get the size of PyGame Window? in PyGame?

Similar Reads

Adding Collisions Using pygame.Rect.colliderect in Pygame

Prerequisite: Drawing shapes in Pygame, Introduction to pygame In this article, we are going to use pygame. Rect. colliderect for adding collision in a shape usin...

3 min read

Python | Display text to PyGame window

Pygame is a cross-platform set of Python modules designed for writing video games. It includes computer graphics and sound libraries designed to be used...

6 min read

Python | Drawing different shapes on PyGame window

Pygame is a cross-platform set of Python modules designed for writing video games. It includes computer graphics and sound libraries designed to be used...

3 min read

Allowing resizing window in PyGame

In this article, we will learn How to allow resizing a PyGame Window. Game programming is very rewarding nowadays and it can also be used in advertising...

2 min read

How to get the size of PyGame Window?

In this article, we will learn How to get the size of a PyGame Window. Game programming is very rewarding nowadays and it can also be used in advertising...

2 min read

How to make a PyGame Window?

PyGame is a free and open-source cross-platform library for game development in Python. It was officially written by Pete Shinners to replace PySDL it is suitabl...

2 min read

How to Change the Name of a Pygame window?

PyGame window is a simple window that displays our game on the window screen. By default, pygame uses "Pygame window" as its title and pygame icon...

2 min read

How to make a fully transparent window with PyGame?

Fully transparent windows with PyGame have their own advantage while building many games and apps via Python. Thus in order to achieve the...

3 min read

wxPython - Create empty window

wxPython is one of the most famous library in python for building GUI applications. In this first article of wxPython we will build an empty window...

1 min read

PyQtGraph - Getting Window Flags of Plot Window

In this article we will see how we can get window flags of the plot window in the PyQtGraph module. PyQtGraph is a graphics and user interface library for Pytho...

3 min read

Article Tags: Python Python-PyGame

Practice Tags: python



Corporate & Communications Address:-A-143, 9th Floor, Sovereign Corporate Tower, Sector- 136, Noida, Uttar Pradesh (201305) | Registered Address:- K 061, Tower K, Gulshan Vivante Apartment, Sector 137, Noida, Gautam Buddh Nagar, Uttar Pradesh, 201305





CompanyLanguagesAbout UsPythonLegalJavaIn MediaC++Contact UsPHPAdvertise with usGoLangGFG Corporate SolutionSQLPlacement Training ProgramR Language

GeeksforGeeks Community

Android Tutorial **Tutorials Archive**

DSA

Data Structures

Algorithms

DSA for Beginners

Basic DSA Problems

DSA Roadmap

Top 100 DSA Interview Problems

DSA Roadmap by Sandeep Jain

All Cheat Sheets

Data Science & ML

Data Science With Python

Data Science For Beginner

Machine Learning

ML Maths

Data Visualisation

Pandas

NumPy

NLP

Deep Learning

Web Technologies

HTML

JavaScript

TypeScript

ReactJS

NextJS

Bootstrap

Web Design

Python Tutorial

Python Programming Examples

Python Projects

Python Tkinter

Web Scraping

OpenCV Tutorial

Python Interview Question

Django

Computer Science

Operating Systems

Computer Network

Database Management System

Software Engineering

Digital Logic Design

Engineering Maths

Software Development

Software Testing

DevOps

Git

Linux

AWS

Docker

Kubernetes

Azure

GCP

DevOps Roadmap

System Design

High Level Design

Low Level Design

UML Diagrams

Interview Guide

Design Patterns

System Design Bootcamp

Interview Questions

Inteview Preparation

Competitive Programming

Top DS or Algo for CP

Company-Wise Recruitment Process

Company-Wise Preparation

Aptitude Preparation

Puzzles

School Subjects

Mathematics

Physics

Chemistry

Biology

GeeksforGeeks Videos

DSA

Python

Java

C++

How to create an empty PyGame window? - GeeksforGeeks

Social Science Web Development
English Grammar Data Science
Commerce CS Subjects
World GK

@GeeksforGeeks, Sanchhaya Education Private Limited, All rights reserved