Year 9 PyGame Knowledge Organiser

Import & Initialization

import pygame
pygame.init()

This snippet of code imports pygame module and by using init function you can initialize pygame so that you can start rocking with game dev!

Create screen

pygame.display.set_mode((width, height))

Creates a window for your game, its similar to a canvas and it returns a surface. The arguments are width and height of the screen as a tuple

Set Title

display.set_caption('Title of the window')

This function simply sets the argument as the title of the window.

fill Function

Surface, fill (color)

This function is used to fill a solid color onto your screen. Arguments should be RGBA(Red, Green, Blue, Alpha) values.

Set Font

pygame.font.SysFont('Font Name',
FontSize)

This function lets you choose a font for your text that appears on the screen. It takes Font name and size as its arguments and it returns a font object

blit Function

Surface.blit(source, dest, area, speical_flags)

Draws one image onto another. Basically, it copies the pixels from one surface to another. It can be used to draw images to the screen.

Update Display

pygame.display.update()

Updates the screen, basically redraws the main surface if arguments are not specified. And on the other hand, if you do happen to specify the arguments, it redraws the portions that you gave it.

Color

pygame.Color(R, G, B)

Creates a color object with RGBA as arguments.

Event

pygame.event Places a new event that you .post() specify on the queue

pygame.event Creates a new event object .Event()

pygame.event Gets the event from the queue .get()

pygame.event removes all the events from the .clear() queue

Events are always in a queue. Order of events does matter.

Common Event Loop

for event in pygame.event.get():
 if event.type == pygame.QUIT:
 pygame.quit()

One of the most common ways of event handling, its a loop which constantly checks for events, quits if the QUIT event is triggered and prevents your game from freezing.

Images

pygame.ima Loads a new image from a file ge.load() that you specify pygame.ima You can save the image to your ge.save() drive using this function

Time

pygame.time Creates a clock object and you .Clock() can control the clock using tick() function

pygame.time Returns the clock framerate .Clock.get_fp

s()

pygame.time Returns the time used in .Clock.get_ti previous tick

me()

pygame.time Pause for time specified .delay()

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Exit

pygame.quit() Quits the game