

Here is a quick cheat sheet for using pygame, with side by side comparison to XEngine.

For a complete reference, use the official reference doc on their website: https://www.pygame.org/docs/

To use pygame, first thing you need to do is to import the pygame module:

import pygame
do pygame stuff

Description	Pygame	XEngine
Engine start up/initialization	pygame.init()	X::Start()
Engine shutdown	pygame.quit()	X::Stop()
Create a window and setting the resolution	win = pygame.display.set_mode((width, height))	Window is automatically created, resolution is set via xconfig.json
Setting window title bar name	pygame.display.set_caption(<your string="" title="">)</your>	Title is set in xconfig.json
Render loop and frame rate	clock = pygame.time.Clock() while True: win.fill(<color>) # draw stuff pygame.display.update() clock.tick(<int desired="" for="" fps="">)</int></color>	Can draw anything anywhere within the GameLoop function. Frame rate is locked to monitor refresh rate.
Drawing functions	pygame.draw.rect() pygame.draw.circle() pygame.draw.line()	X::DrawScreenRect() X::DrawScreenCircle() X::DrawScreenLine()
Loading an image	img = pygame.image.load(<path>)</path>	X::LoadTexture(<path>)</path>
Drawing an image	win.blit(img, (x, y))	X::DrawSprite()
Loading a font	font = pygame.font.SysFont(<typeface>, <pointsize>)</pointsize></typeface>	A default font is loaded by the engine
Drawing text	text = font.render() win.blit(text, (x, y))	X::DrawScreenText()



Checking input	Two methods: for evt in pygame.event.get(): if evt.type == pygame.QUIT: quit = True if evt.type == pygame.KEYDOWN: if evt.key == pygame.K_ESCAPE: quit = True keys = pygame.key.get_pressed() if keys[pygame.K_SPACE] shoot = True	X::IsKeyDown() X::IsKeyPressed()
Loading a sound	sound = pygame.mixer.Sound(<path>)</path>	X::LoadSound(<path>)</path>
Playing a sound	sound.play()	X::PlaySoundOneShot()
Loading music	pygame.mixer.music.load(<path>)</path>	X::LoadSound(<path>)</path>
Music playback	pygame.mixer.music.play(-1) pygame.mixer.music.stop() pygame.mixer.music.pause() pygame.mixer.music.unpause()	X::PlaySoundLoop() X::StopSoundLoop()