

Pyglet

Installation (from command line)
(venv)\$ python -m pip install pyglet

Window and loop of events

```
import pyglet
window = pyglet.window.Window()
pyglet.app.run()
```

Register functions to events

```
window.push_handlers(
    on_draw=draw_window,
    on_text=process_text,
)
```

Interesting events

```
on_draw()
on_key_press(sym, mod)
on_key_release(sym, mod)
on_text(text)
on_text_motion(m)
on_mouse_press(x, y, b, mod)
on_mouse_release(x, y, b, mod)
on_mouse_motion(x, y, dx, dy)
on_mouse_scroll(x, y, sx, sy)
on_mouse_enter(x, y)
on_mouse_leave(x, y)
on_show()
on_hide()
on_close()
```

Render window

Key press (sym - from pyglet.window.key)
Key release (mod - MOD_* from pyglet.window.key)
Text input
Cursor move (m-MOTION_*from pyglet.window.key)
Mouse pressed (b-button, pyglet.window.mouse)
Mouse button released
Mouse motion (dx, dy - distances)
Mouse scroll (x,y - where, sx,sy - how much)
Mouse entered some area
Mouse left some area
Show window
Hide window
Tries to close window (return True prevent closure)

Pictures

```
picture = pyglet.image.load('name.png')
sprite = pyglet.sprite.Sprite(picture)
```

sprite.draw()	Rendering (within on_draw window!)
sprite.x	X coordination
sprite.y	Y coordination
sprite.rotation	Rotation (in degrees)
sprite.scale	Enlargement (default 1)
sprite.img	Image
sprite.color	Colour (blend) - 3 numbers, each from 0 (dark) to 255 (saturated)

Time

```
pyglet.clock.schedule_interval(my_ticking_function, 1/30)
    Calls function every 1/30 of a second (0.033 second)
pyglet.clock.schedule_once(my_onetime_function, 1/2)
    Calls function once after half a second
```

Function that was called will get one argument- time from last call or registration.

More info: <https://pyglet.readthedocs.io/en/latest/>