

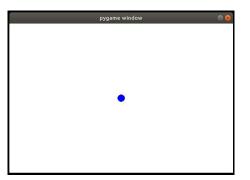
Making games with python

#### Game programming (0)

- https://realpython.com/pygame-a-primer/
- Let's fetch the code from github (reviewing git)
  - Install git
  - Login to github > <a href="https://github.com/pyladies-bratislava/pyladies-bratislava/">https://github.com/pyladies-bratislava/</a>
  - Clone the repository (copy the github clone line)
  - Create a virtual environment > python3 -m venv .env
  - Activate the virtual env > source .env/bin/activate
  - Install requirements > pip install -r requirements.txt
  - Check what's inside:)

## Game programming (1)

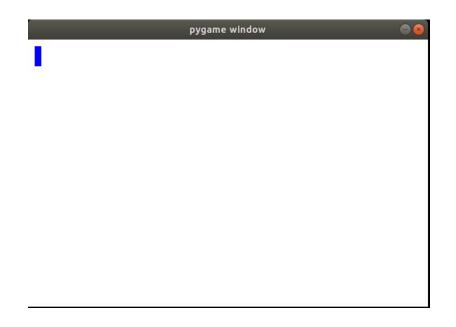
- Open the file game1.py
- Let's go over it
  - Game loop
  - Create a game window
  - Exit the game
- Play with the sizes and colors
  - Can you put other shapes on the screen?
- Questions?



1	RGB(0,0,0)	29	RGB(128,0,128)
2		30	RGB(128,0,128)
3	RGB(255,255,255)	31	RGB(0,128,128)
4	RGB(255,0,0)	32	RGB(0,0,255)
5	RGB(0,255,0)	33	RGB(0,204,255)
	RGB(0,0,255)	34	RGB(204,255,255)
6	RGB(255,255,0)	35	
7	RGB(255,0,255)		RGB(204,255,204)
8	RGB(0,255,255)	36	RGB(255,255,153)
9	RGB(128,0,0)	37	RGB(153,204,255)
10	RGB(0,128,0)	38	RGB(255,153,204)
11	RGB(0,0,128)	39	RGB(204,153,255)
12	RGB(128,128,0)	40	RGB(255,204,153)
13	RGB(128,0,128)	41	RGB(51,102,255)
14	RGB(0,128,128)	42	RGB(51,204,204)
15	RGB(192,192,192)	43	RGB(153,204,0)
16	RGB(128,128,128)	44	RGB(255,204,0)
17	RGB(153,153,255)	45	RGB(255,153,0)
18	RGB(153,51,102)	46	RGB(255,102,0)
19	RGB(255,255,204)	47	RGB(102,102,153)
20	RGB(204,255,255)	48	RGB(150,150,150)
21	RGB(102,0,102)	49	RGB(0,51,102)
22	RGB(255,128,128)	50	RGB(51,153,102)
23	RGB(0,102,204)	51	RGB(0,51,0)
24	RGB(204,204,255)	52	RGB(51,51,0)
25	RGB(0,0,128)	53	RGB(153,51,0)
26	RGB(255,0,255)	54	RGB(153,51,102)
27	RGB(255,255,0)	55	RGB(51,51,153)
28	RGB(0,255,255)	56	RGB(51,51,51)

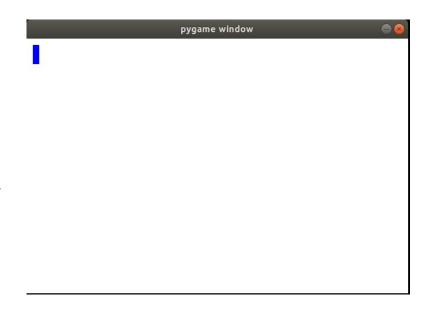
## Game programming (2)

- Open the file game2.py
- Let's go over it
  - Place a player in the game
  - Move the player
- Play with the position, colors and shapes of the player
  - How can the player stay in the screen?
- Questions?



# Game programming (3)

- Open the file game3.py
- Let's go over it
  - OOP in practice
    - Sprite class
- Refactor code using sprites
  - The output should be the same as game2.py
  - The player shouldn't move out of the screen
- Questions?



# Game programming (4)

- Implement the Enemy class and collisions
- Get the clock right
- Questions?