



Classic Games with Python in the browser

<http://about.me/fmasanori>



Epic win



Keyd SBC vs LG IM (2013)

<http://bit.ly/1c8FmWp>



Kids like games (PyConUK 2013)

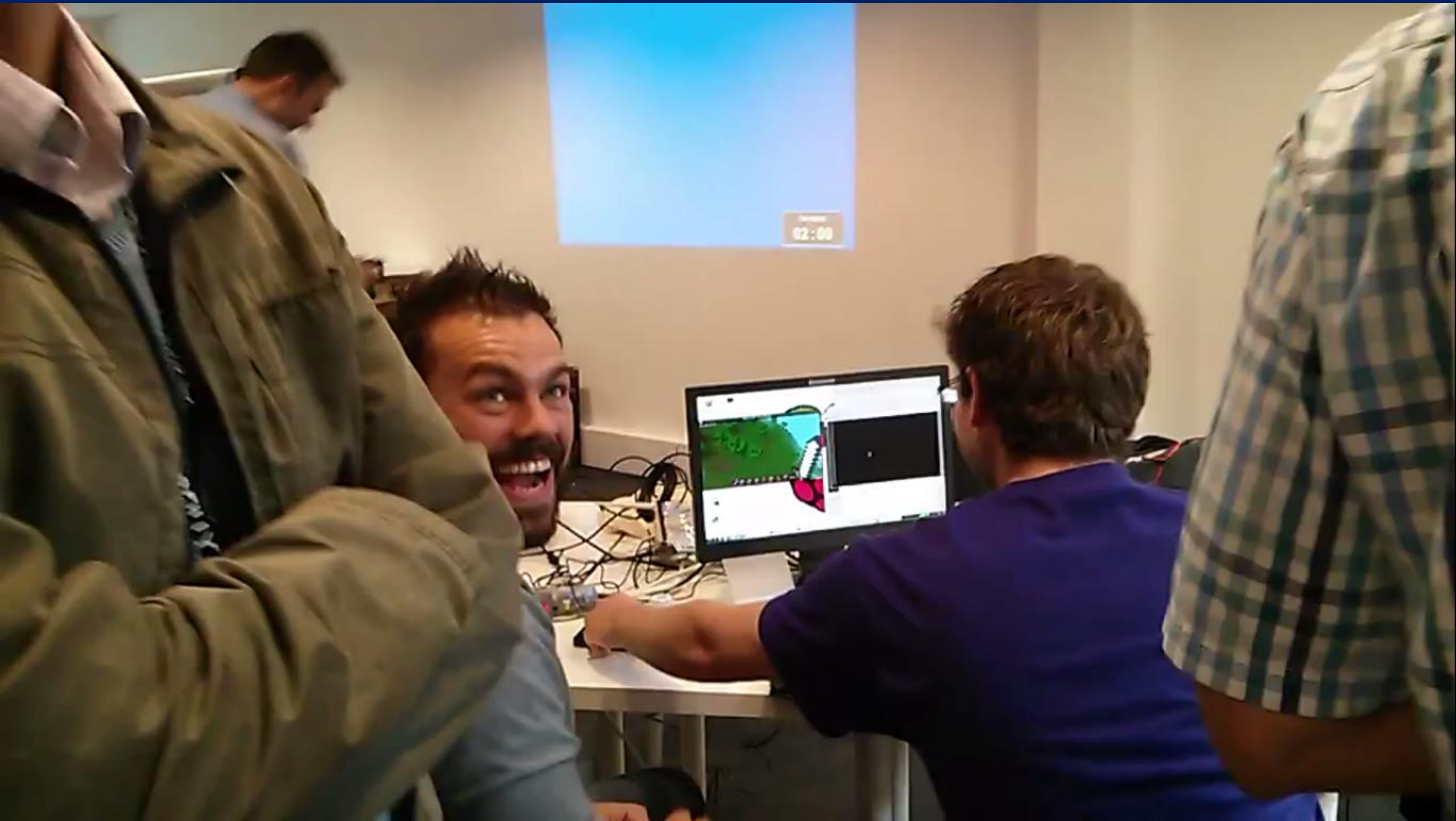


[Rebecca, Penelope and Emily make a flying saucer at PyconUK 2013](#)



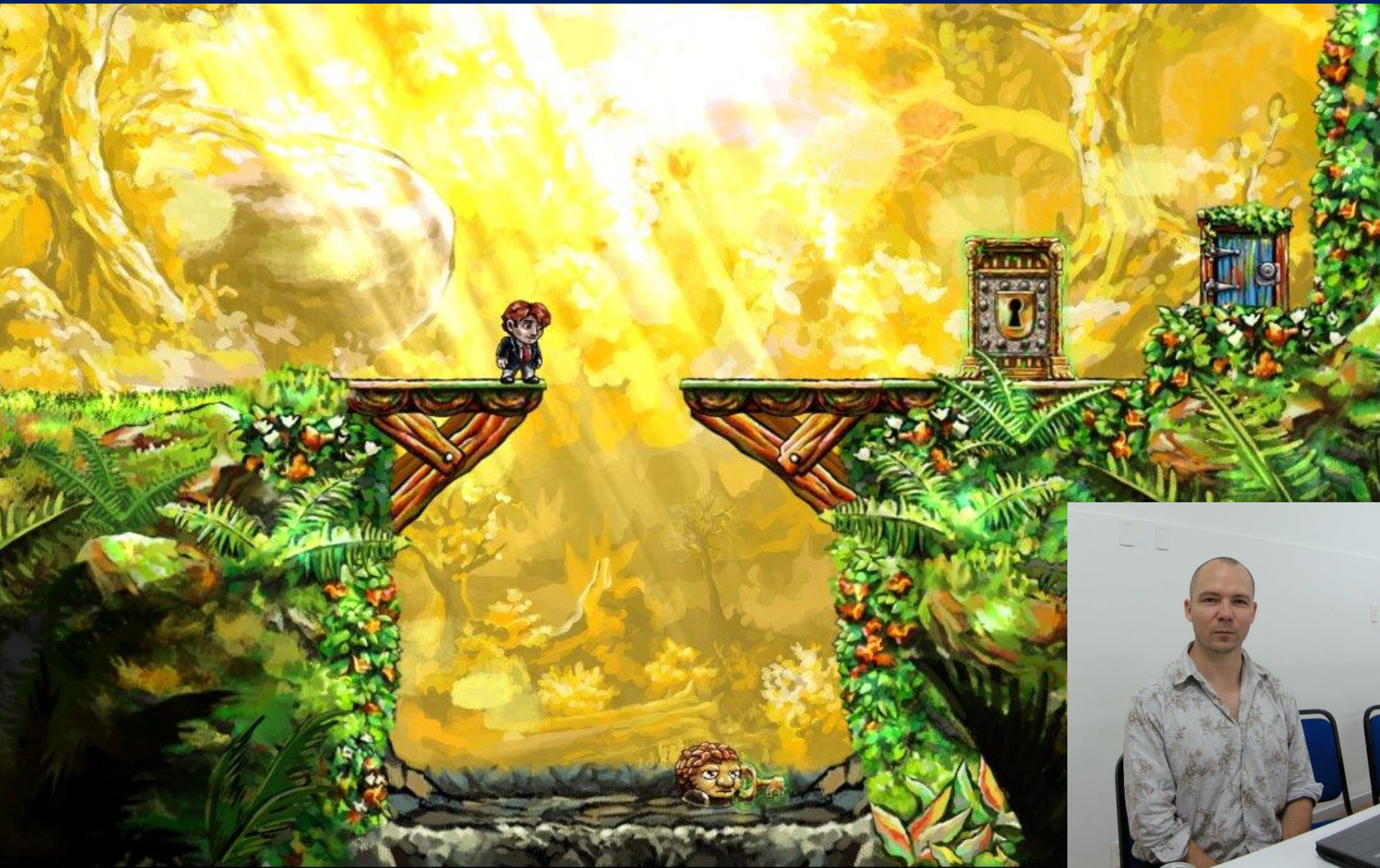
[William, John and John say "Hello, world" in Minecraft with Python at PyconUK 2013](#)

Teachers and developers like game too



[Teacher and developers at PyConUK 2013 with a quadcopter in Minecraft](#)

Indie games is a goal for many dev's



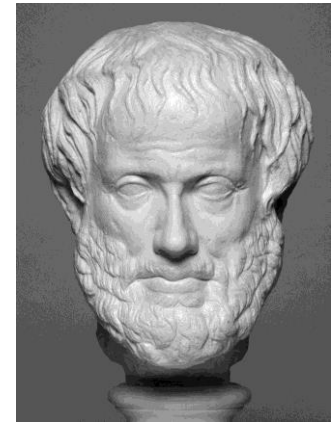
Indie games is a goal for many dev's



[illegible]

Games and Education

- **Greek “skole” (creative idleness) > school**
- **We work hard in order to have “skole” (Aristotle)**
- **The free time are best suited to exercise freedom of choice and the grow of virtues**



What about you?

- In the past I use Softimage
- FATEC tested Panda3D and Pygame
- But, for education purposes there are some drawbacks
 - Some installation problems
 - Difficult to give the game to friends
- Solution: Codeskulptor for teaching programming

Interactive Programming with Python

- **Top Rated MOOC at CourseTalk**
- **One game per week:**
 - **Rock, Spock, Paper, Lizard, Scissors**
 - **Guess the number**
 - **StopWatch**
 - **Memory**
 - **Pong**
 - **Black Jack**
 - **Asteroids** (other student, not me)

Pong

Reset

1

3



Key: Up ↓

Mouse:

Black Jack

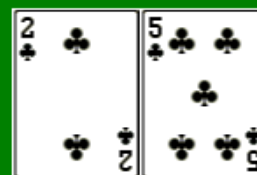
Deal

Hit

Stand

Black Jack

Score: 0



Key:

Mouse:

Rice Rocks (Asteroids)

ASTEROIDS RELOADED

Ship controls:

Left: A or left arrow:

Right: D or right arrow:

Thrust: W or up arrow

Fire: space

Lives: 3

Score: 0



Key:

Mouse: Click 361, 228

This kid finished the course with me!



Hall of Fame

- PyMan = Python Pacman
- Rice Racer
- Star Wars
- Tower Defence
- Py*bert = Python Q*bert

PyMan = Python Pacman

Welcome to PyMan!

Instructions:

1. Click New Game to start a new game
2. Use the arrow keys to move PyMan
3. Avoid the Professors
4. Eat a large pellet to make the Professors edible
5. Eat all the pellets to go to the next level
6. Try to get a high score :)
7. High score isn't submitted until you click Go

Points:

Small pellets = 10 pts

Large pellets = 50 pts

Bonuses = level x 100 pts

1st Ghost = 200 pts

2nd Ghost = 400 pts

3rd Ghost = 800 pts

4th Ghost = 1600 pts

Credits:

Intro Music - the lecture videos

Professor Mugshots - the class info page

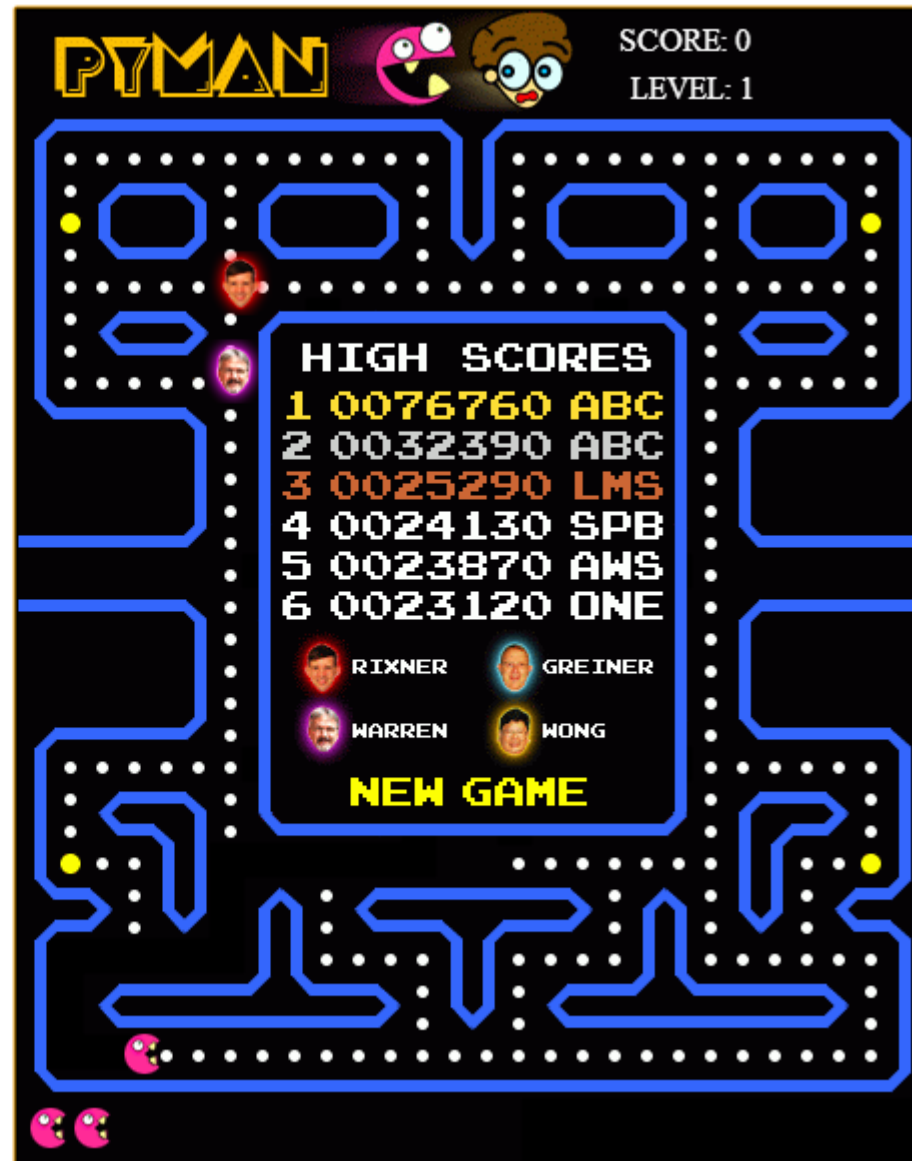
Power Pellet Music - playonloop.com

Sound Effects - noiseforfun.com

Other Images - clker.com

Key:

Mouse:

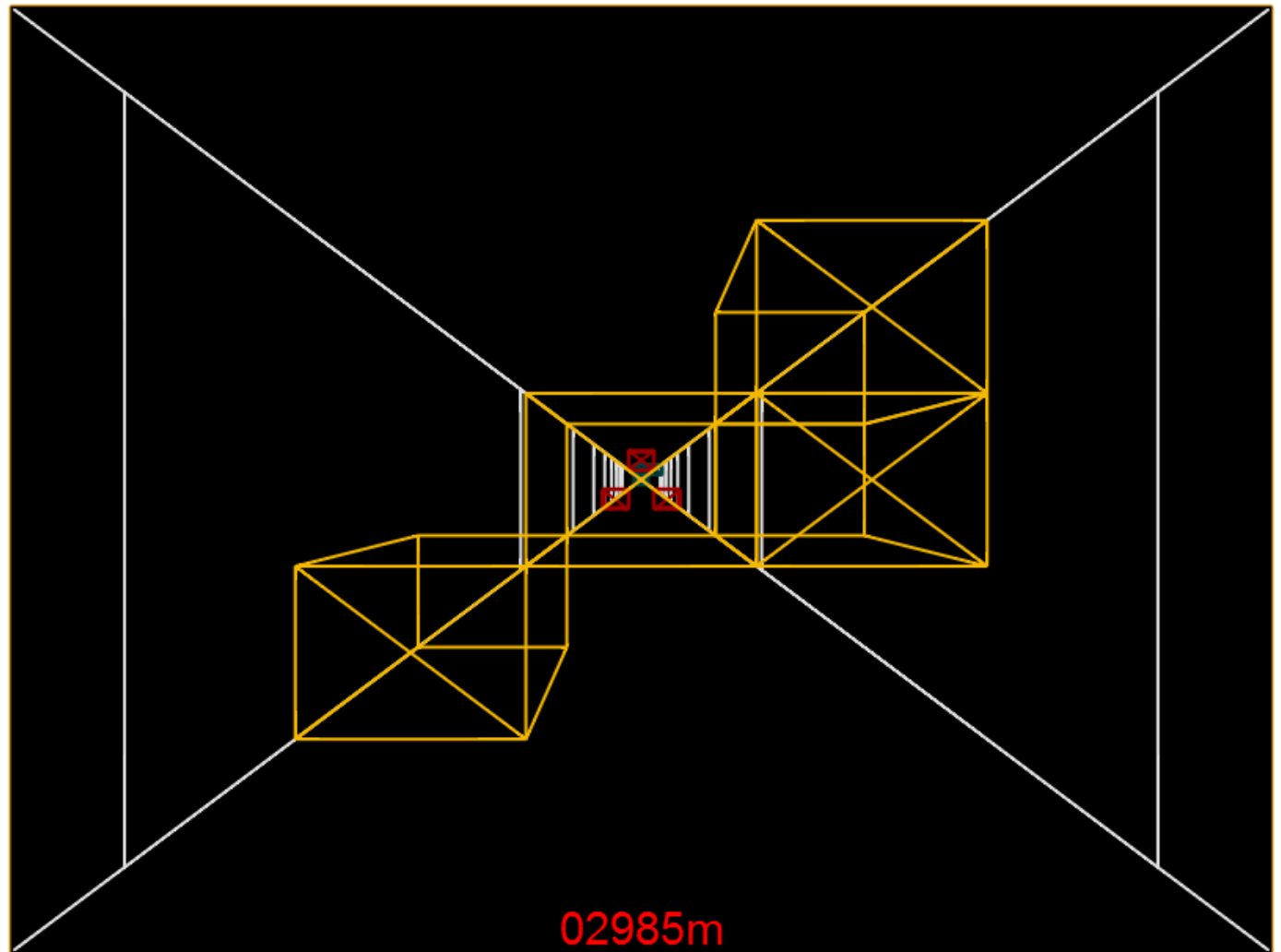


Rice Racer

- 1 - Stephen - Lap 0 of 3
- 2 - John - Lap 0 of 3 - 1.2m
- 3 - Scott - Lap 0 of 3 - 1.2m
- 4 - Joe - Lap 0 of 3 - 1.2m
- 5 - **Racer X** - Lap 0 of 3 - 2.2m



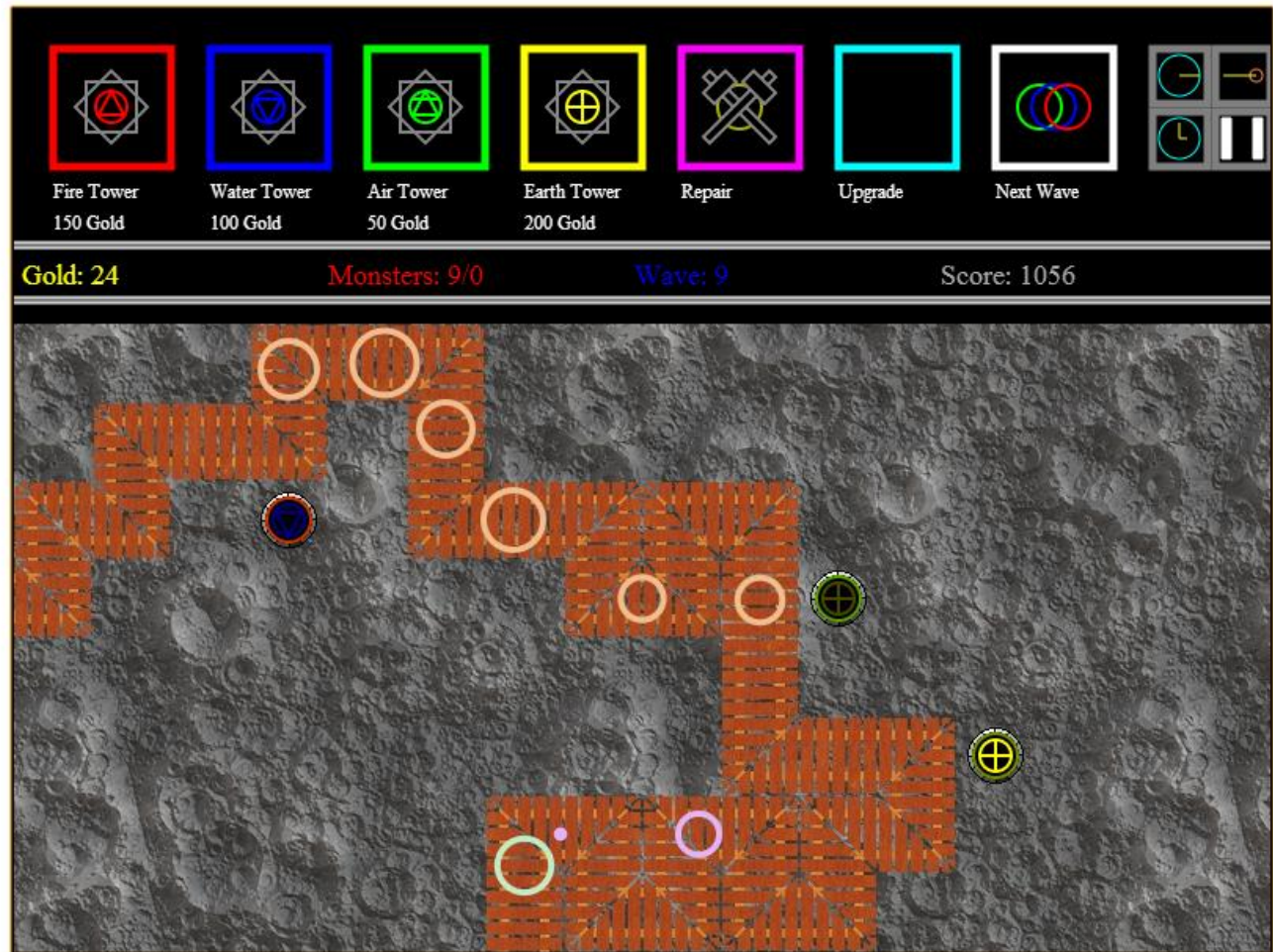
Star Wars



Key: Up <44>

Mouse:

Tower Defence



Key:

Mouse: Click 171, 335

Py*bert = Python Q*bert

Game Play Instructions for
Controlling Py*bert

Downward Right Direction - M
or Right Arrow Key

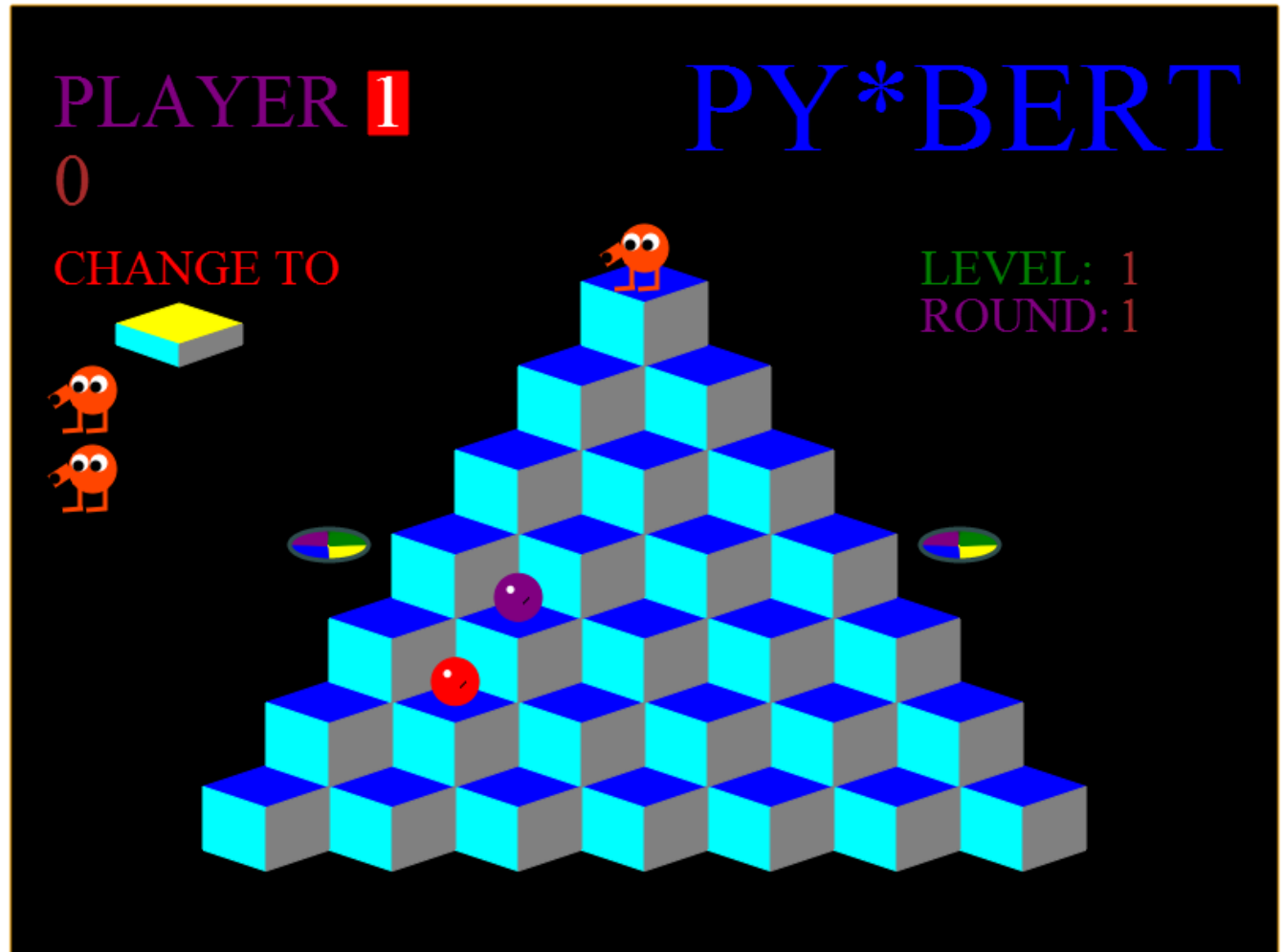
Downward Left Direction - Z or
Down Arrow Key

Upward Left Direction - Q or
Left Arrow Key

Upward Right Direction - O or
Up Arrow Key

Key: Up 1

Mouse:



I recommend the course

Coursera | Global Partners

Courses Partners About ▾ | Fernando... ▾



An Introduction to Interactive Programming in Python

Joe Warren, Scott Rixner, John Greiner and Stephen Wong

This course is designed to be a fun introduction to the basics of programming in Python. Our main focus will be on building simple interactive games such as Pong, Blackjack and Asteroids.

Workload: 7-10 hours/week

Taught In: English

Subtitles Available In: English



<https://www.coursera.org/course/interactivepython>

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