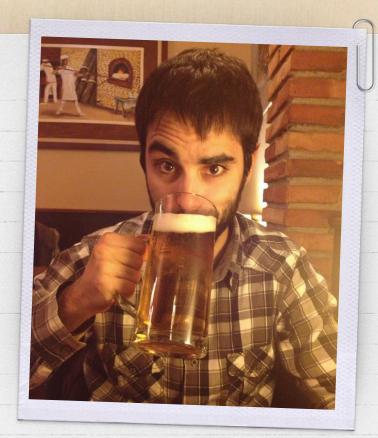
Physics 2 (Coding part)

HELLO!

My name's Carlos

Any questions or suggestions, send me an email at my username in the internal virtual campus:

carlosrz



Subject presentation

Don't worry! There's no heavy stuff today...

Pinball (2D Physics Game)

- 1. Box2D Library Integration (library) as a module
- 2. Creation of basic shapes
- 3. Simulating the world
- 4. Collision detection
- 5. Joints



Racing Game (3D Physics Game)

- 1. First contact with OpenGL
- 2. Bullet Library Integration
- 3. Collision detection
- 4. Bullet constraints
- 5. Vehicle creation
- 6. Sensors



Evaluation!

Pinball (Box2D)

Deadline: 25th October

Weight: 15% of the total

Racing Game (Bullet)

Deadline: 20th December

Weight: 30% of the total



And a 5% of attitude.

Both games must implement a **full win / lose cycle** and show **best score or timer**.

Attention!

The assignment must be done in **pairs** and deliveries must be submitted before 23:59 of the corresponding day.

Evaluation Rules

The graphics is **not** our main goal.

The gameplay is more important but it's not our priority.

The **code quality** is **fundamental**! Code must be clear, consistent and optimal. Each project must be completely different!

Evaluation Rules

The delivery will be a link to the executable in Release on the repository with the following format:

lastname1_name1_lastname2_name2

A crashing or unplayable game will not be evaluated!

What will we use?

Visual Studio 2017

Box2D library and its corresponding documentation

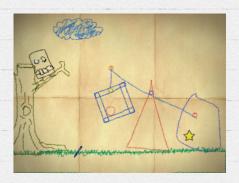
Bullet library and its corresponding documentation

A GitHub repository

Some examples of Box2D games...



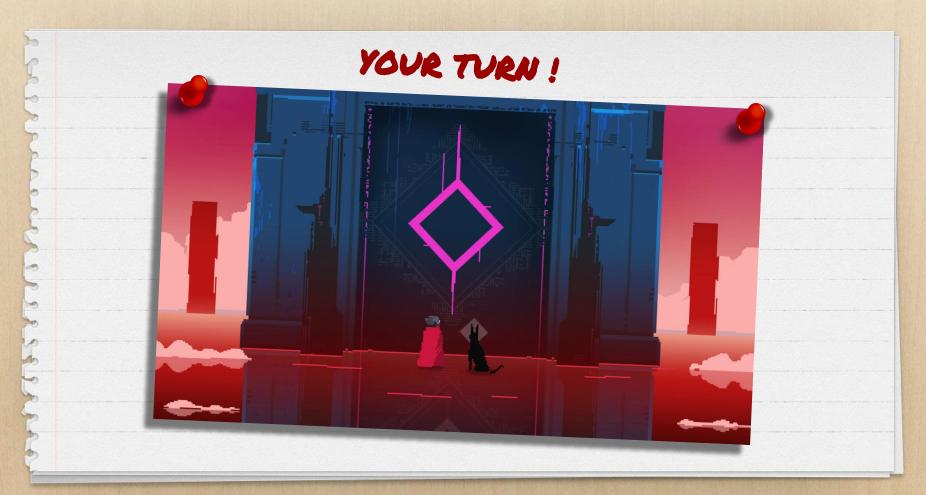
Fantastic Contraption



Crayon Physics Deluxe



Angry Birds



LOOK FOR A PINBALL GAME!

- Pick your faithful partner!
- 2. Surf the web and pick a pinball game that you'd like to copy. Here you have some useful links:
 - a. http://www.classicgame.com/Pinball
 - ь. http://www.freewebarcade.com/pinball-games.php
 - c. Or any other website that you might find...
- 3. Go to this <u>spreadsheet</u> and fill in your couple names and a link to the chosen pinball game



HOMEWORK

- X Try to compile and run <u>HelloWorld.cpp</u> at home in Visual Studio 2017. To do that, you will have to link Box2D library.
- X Remember to choose a 2D perspective pinball and fill in the spreadsheet!

NEXT WEEK . . .

Box2D library integration