

# Interactive Game Console

Final Presentation

Disclosure

# Basics

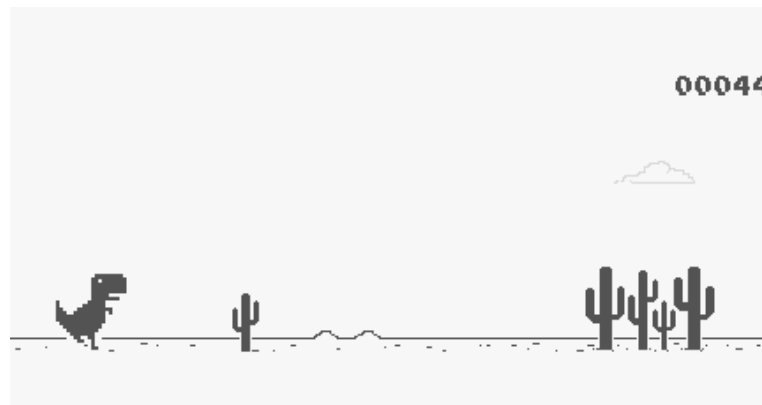
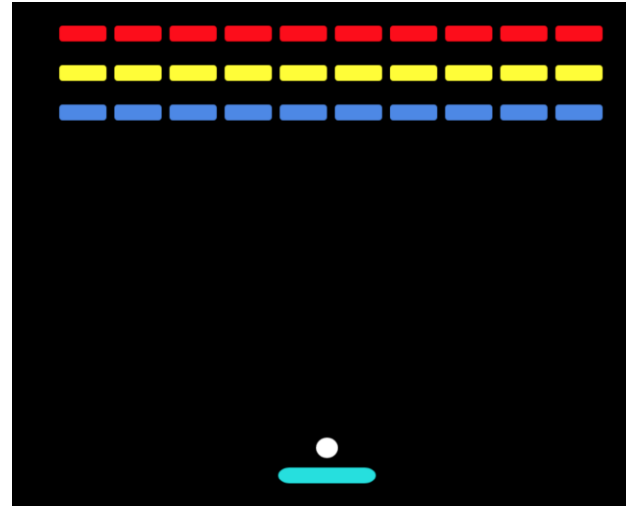
# What is it?

- ▶ It's a combination of old and new
- ▶ It brings old classics to a new control scheme
- ▶ It lets the new generation experience classics in a new interactive way
- ▶ Along are brought some new age games as well



# What games would be on it?

- ▶ Pong (1 player)
- ▶ Space Wars
- ▶ Flappy bird
- ▶ Finally, Dino Game (as you know it from Google Chrome)



Why our product?

# Home console

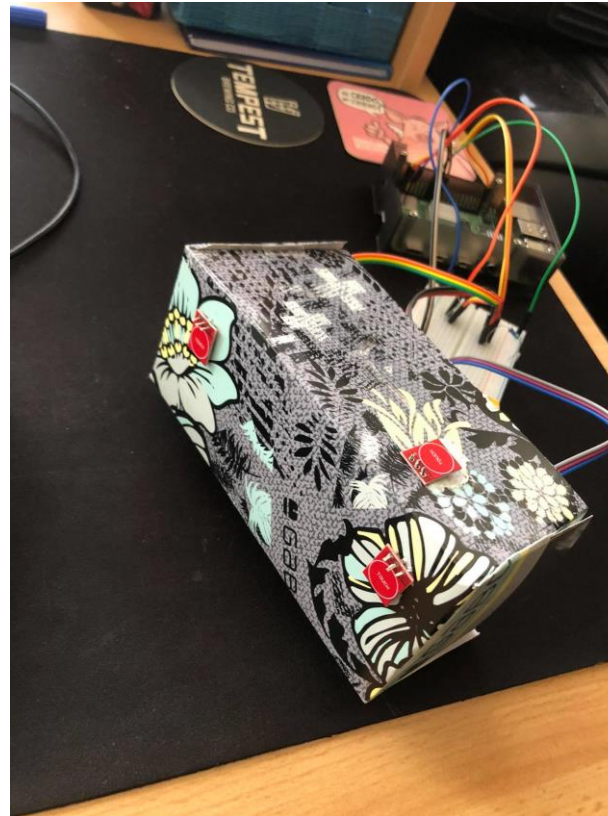
- ▶ A console built for the living room
- ▶ Suits any space - compact
- ▶ Electricity bill - usual
- ▶ Controller can easily charge overnight connected to the console
- ▶ The port selection is vast - Ethernet, 4 USB ports (2x3.0 and 2x2.0), 2 HDMI mini, Type-C for power supply



Via Digital Foundry

# Portable console

- ▶ Easily transferrable to any QC power bank
- ▶ Controller detachable and connectable via Bluetooth®
- ▶ Phones, tablets and PCs can easily connect via VNC to stream the games directly to their phone
- ▶ In a future update: direct connection between controller and other device for a streaming platform





# Game library/System

- ▶ Base library of 4 games for all players
- ▶ Games to include old and new classics and newly developed games
- ▶ Patches via online updates
- ▶ Newer games to be published on store/via system updates
- ▶ Subscription service
- ▶ Free game for Christmas



# Creator Support (in a future update)

- ▶ Creators can publish their games on the console for a 15% cut
- ▶ Indie developers can use the market for free with support
- ▶ Games to be firstly reviewed by our team
- ▶ Additional content can always be pushed via online updates (also reviewed)
- ▶ Featured game once a month



How we achieved this?

Design

# Requirements

## Base:

- ▶ Full touch sensor integration
- ▶ All games playable via touch sensors
- ▶ One UI for all - system fully integrated with games
- ▶ Users should be able to view their high scores
- ▶ At least 3 games playable on launch day

## Future:

- ▶ Updates online
- ▶ Creator hub

# Priorities

1. Have a touch sensor functionality working
2. Have a working display interface
3. Have a first game working
4. Have options to choose between games (have the second game working)
5. Have additional games added
6. Full roadmap for future updates

# Milestones

1. Deliver working code and allocation of at least 1 touch sensor
2. Deliver a working display interface
3. Deliver 1<sup>st</sup> working game within the interface with the integration of the sensors
4. Deliver the second and third game within the interface (full MVP phase)
5. Deliver additional options for the game (high scores, scoreboards, etc.)
6. Present the roadmap

# Product user interface



# Mockup Main menu



The background features abstract, overlapping geometric shapes in various shades of blue, primarily concentrated on the right side of the frame. These shapes include triangles and polygons of different sizes and orientations, creating a dynamic, layered effect. The colors range from a light, airy blue to a deep, saturated navy blue. The overall composition is clean and modern, with the text 'Programming' positioned on the left side against a plain white background.

# Programming

# Python at base level

- ▶ Quick for both development and running
- ▶ Easy to integrate the sensors
- ▶ Good for casual game development
- ▶ Integrating games is mostly quick and flawless
- ▶ Easy to integrate other languages too (Pygame)
- ▶ For remote development: Gitlab
- ▶ For communication: Discord

The background features abstract, overlapping geometric shapes in various shades of blue, primarily concentrated on the right side of the frame. These shapes include triangles and polygons of different sizes and orientations, creating a dynamic, layered effect. The left side of the image is mostly white, providing a clean space for the text.

# Testing

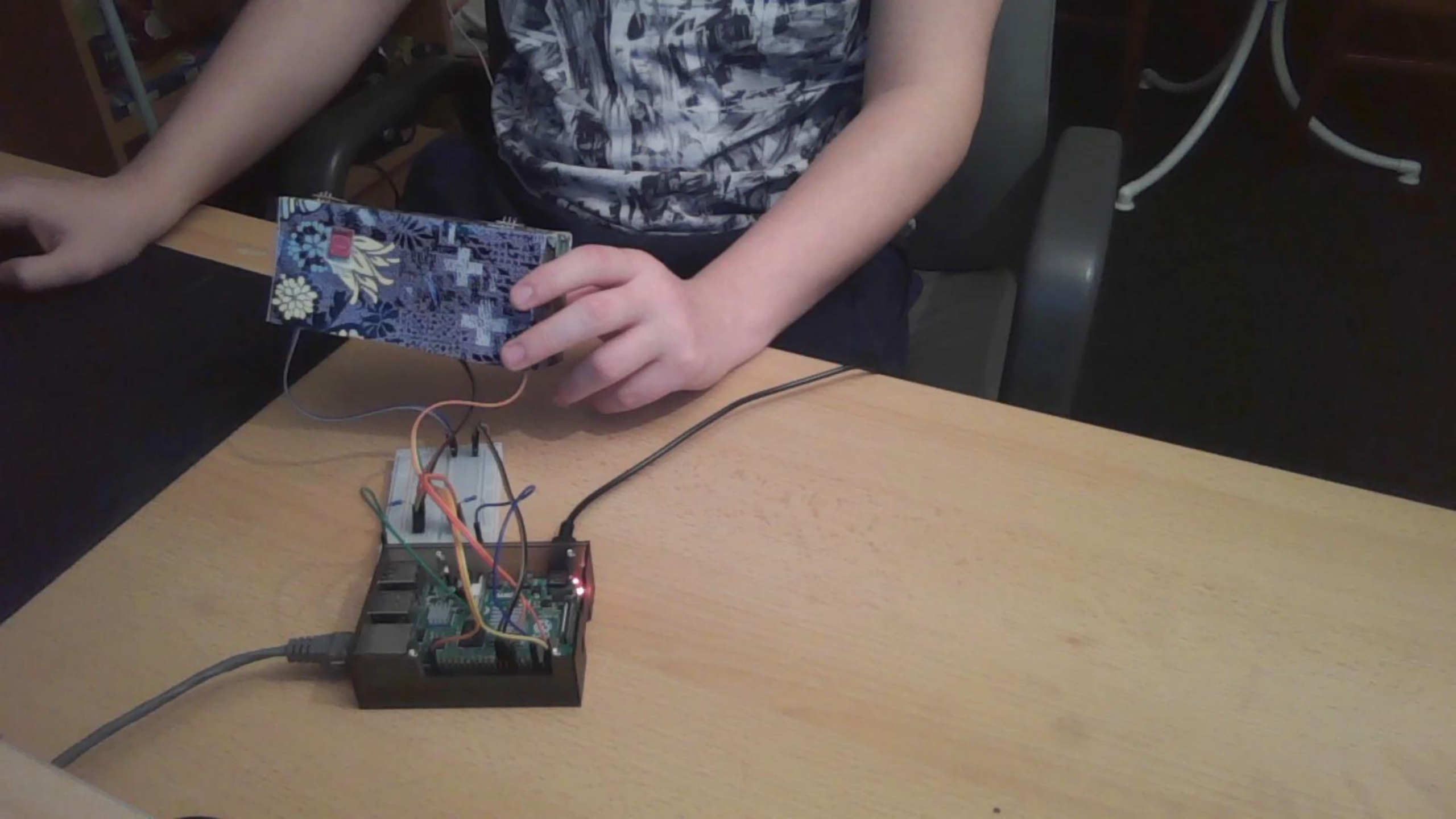
# Testing

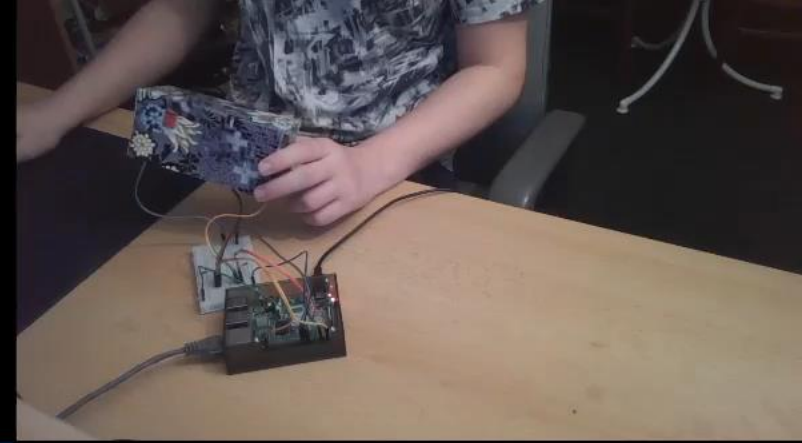
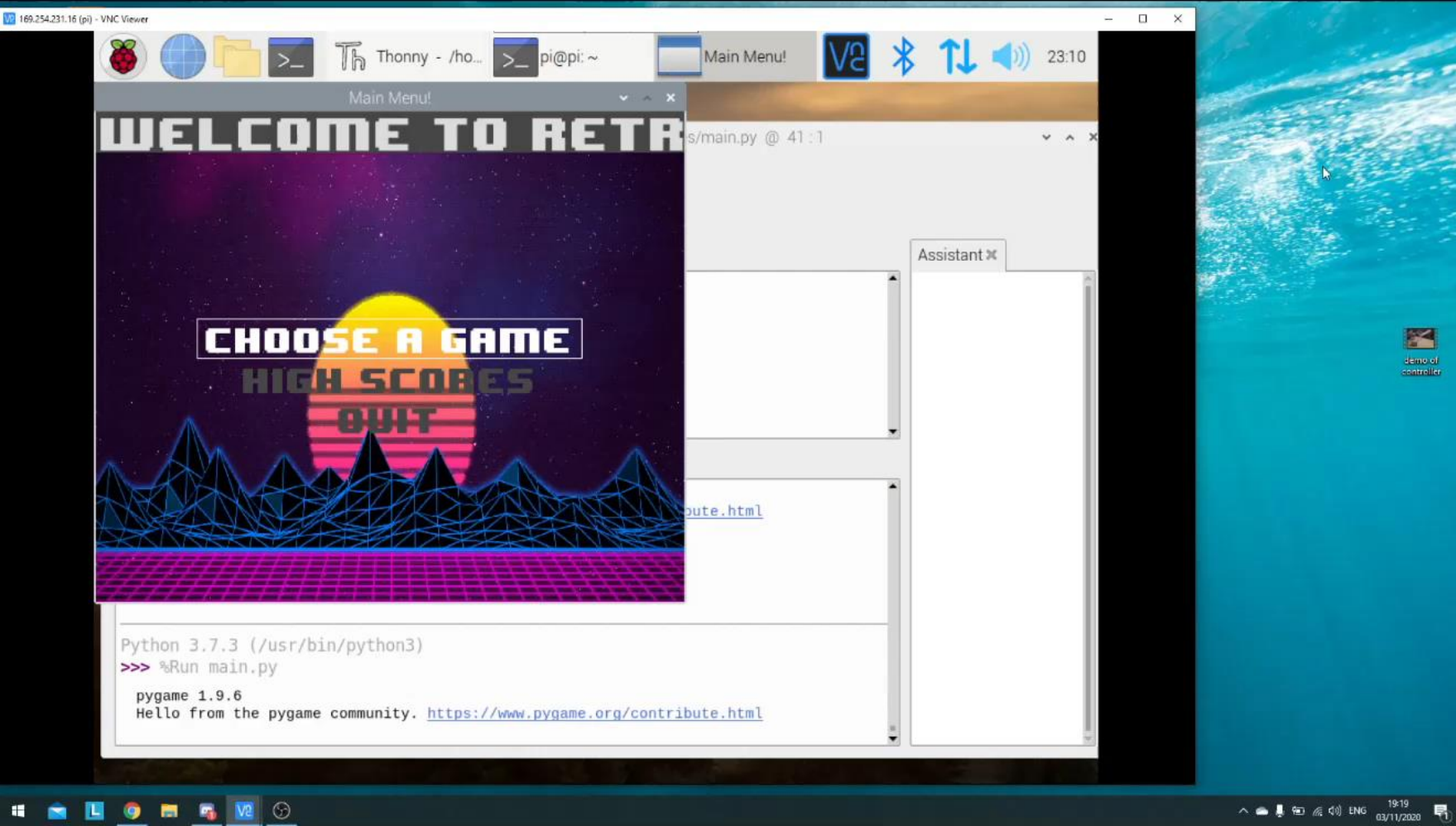
- ▶ Unit testing not possible on UI elements
- ▶ Unit testing not possible on games - randomness (except collision algorithms)
- ▶ Therefore - normal QA - playing the games



# Demo time

Presented by Stefan Ilich







# Final reflections

Questions?