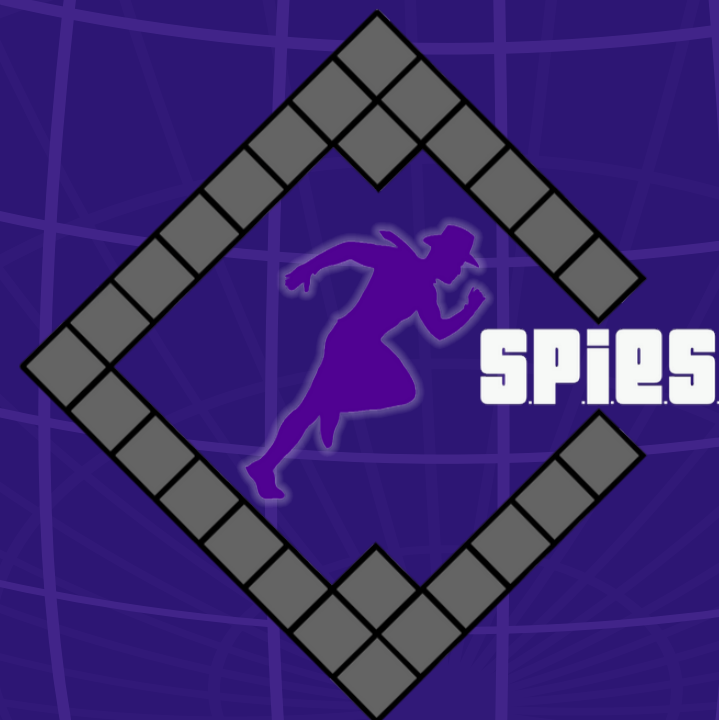


S.P.I.E.S.

SNEAKY PEOPLE
IN EXTREME SITUATIONS



Presented by:

Justin Bishay, Dylan Kobayashi, Katrina Turner

MULTIPLAYER VR/PC GAME

2 Player team game

Player 1: Operator (PC or CyberCanoe)

Player 2: Spy (VR Headset–
Oculus Rift or Vive)

THE BASICS

OBJECTIVE

Extract the Enemy Hard Drive

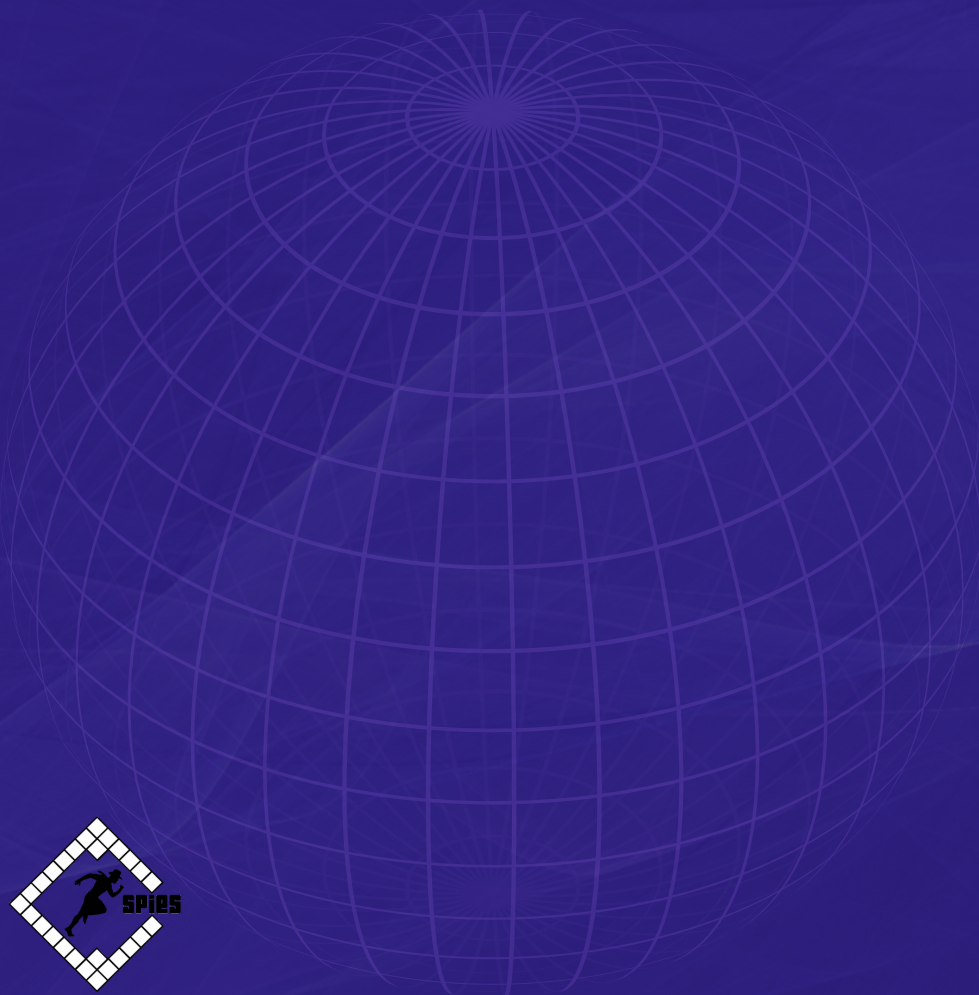
Operator helps Spy navigate through rooms quickly until spy finds hard drive.

Get Spy back out safely without getting caught.

GAME PLAY

Various puzzles need to be solved to open doors.

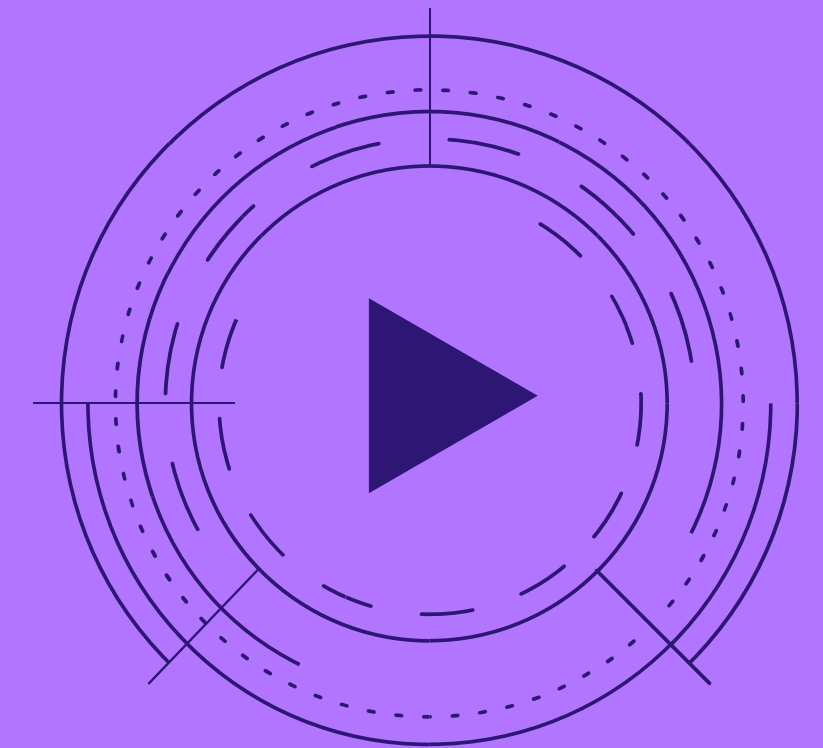
Team work between spy and operator is required to solve puzzles and find hard drive.





The Spy

The Spy is placed in a virtual enemy world. He/she relays information about their world to the operator and follows operator instructions to open doors and navigate throughout the building. They must also avoid hazards like the alien Kirin guards.

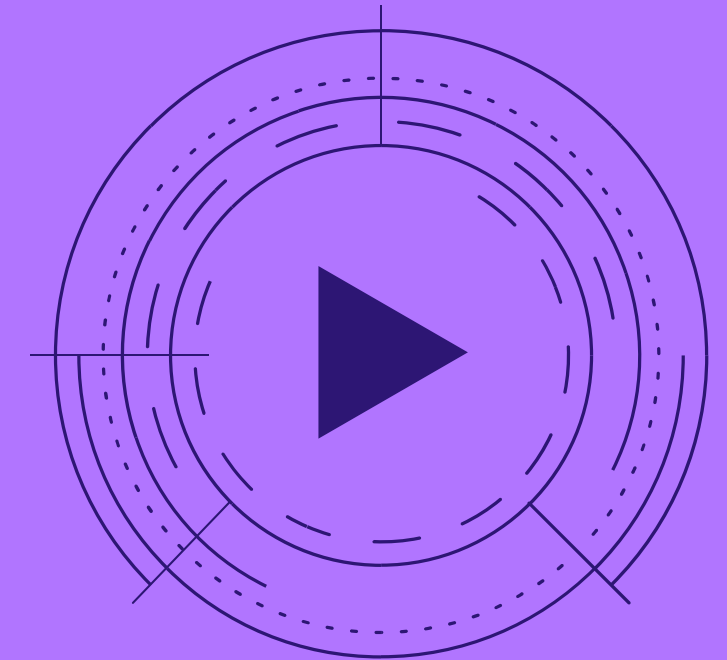


The Operator

The Operator has access to all the information needed for the Spy to solve puzzles. In addition, they have an x-ray view of the entire enemy building. They can also close doors and access additional information using their console.

The operator cannot see guards or other details about the Spy's world other than their position.

*The Operator has the option to use a 3D view on a CyberCANOE.



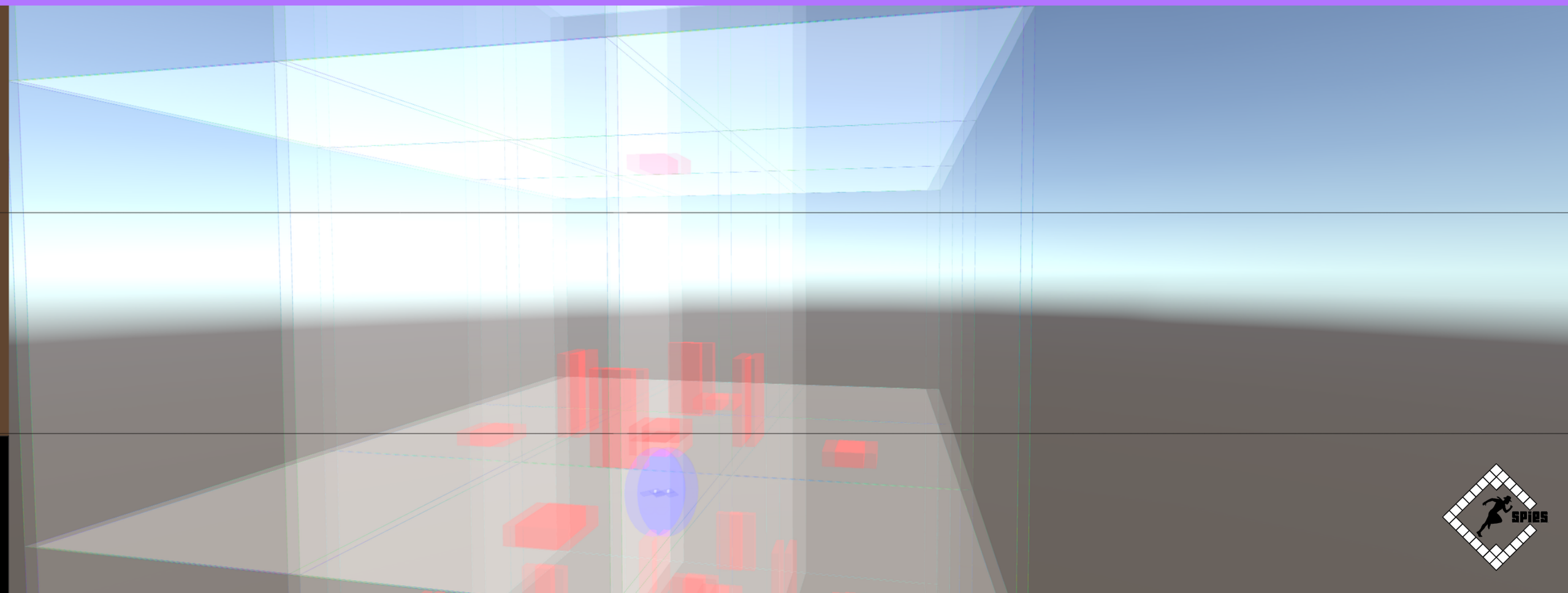
console

S.P.I.E.S. SNEAKY PEOPLE IN EXTREME SITUATIONS PAGE 1

CONSOLE USAGE COMMANDS

| | |
|---|---|
| ls Shows contents of a folder | focus [spy, reset, door_name] Will move the view to put the spy or specified door name into the center. Clicking is a quick name to get the name Using reset will move the camera to the starting position at the start |
| cd [folder_name] Go into the specified folder name Folder_Name can be substituted with .. Doing so goes to the containing folder Example: cd data If the current directory you are in has data, it will go into the data folder cd .. Go to the folder containing the one you are currently within | door [door_name] door close [door_name] doorclose [door_name] Each of these variations closes the named door You may find this necessary to use |
| open [file_name] Will attempt show the contents of a file in the current directory | |
| close Will close any open file contents. Note: also possible to press the [Escape] button to achieve the same effect | |

```
System> Welcome to S.P.I.E.S.
System> You are (SERVER)
System> Your IP is (128.171.121.44)
Unknown Command
---- Contents of / ----
DS_stone
test.png
test.txt
(Folder) Facts
(Folder) manual
(Folder) opening
cd facts
---- Contents of /facts ----
animals.png
oomis.png
hawaii.png
math.png
starwars.png
/facts_
```



OUR TEAM



Dylan Kobayashi

Team Lead
Networking
Operator UI



Justin Bishay

Artificial Intelligence
VR Developer



Katrina Turner

Game Master
Spy UI

FUTURE WORK

4 PLAYER

Implement a 2v2 version of the game where 2 teams attempt to get their spy to tag the other spy.

ADDITIONAL PUZZLES

Add more types of door puzzles.

Ideas include:

- Fingerprint reader
- Symbol encoding
- Button patterns

ADDITIONAL HAZARDS

Add obstacles to end scene.

Other consequences for incorrect puzzle answers
More forcefield prisons



DEMO VIDEO

<https://youtu.be/EgY73ZiRrnc>

SPECIAL THANKS TO . . .

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Ronnie Kauanoë – CyberCANOE Package

University of Hawai'i at Manoa – LAVA

Nurit Kirshenbaum – Operator Console

University of Hawai'i at Manoa – LAVA