

THINGS TO DO ...

- Brief Review of Existing3D-shooters
- Geometry
- Visual Recognition
- Decision Making Model
- Process of Gaming
- Conclusion

Brief Review of Existing 3D-shooters



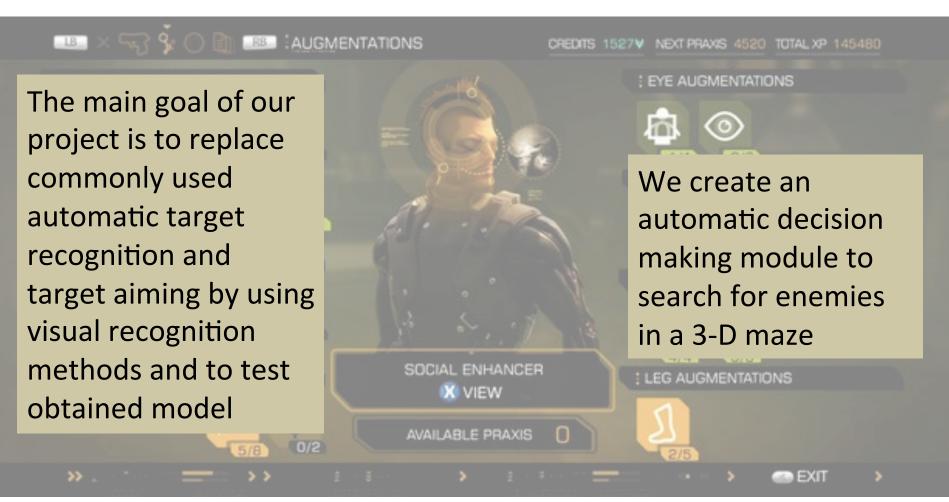


Wolfenstein

Call of duty: Ghosts

What is the real difference?

Idea

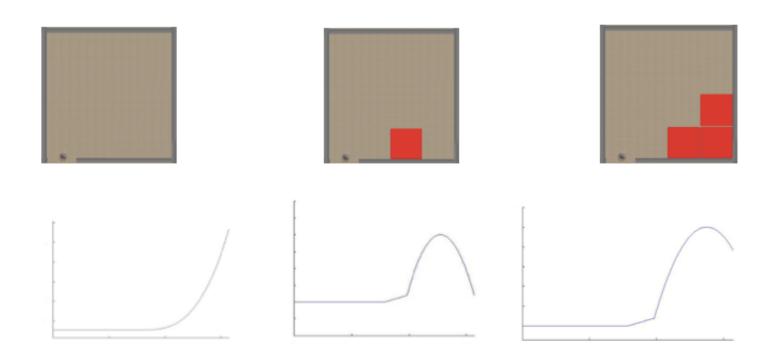


Geometry

- Types of the objects:
 - walls, boxes
 - columns, doorways
- Processing the queue:
 - finding element with maximal priority
 - recalculating dangerous zones
 - comparing the first Kqueue elements

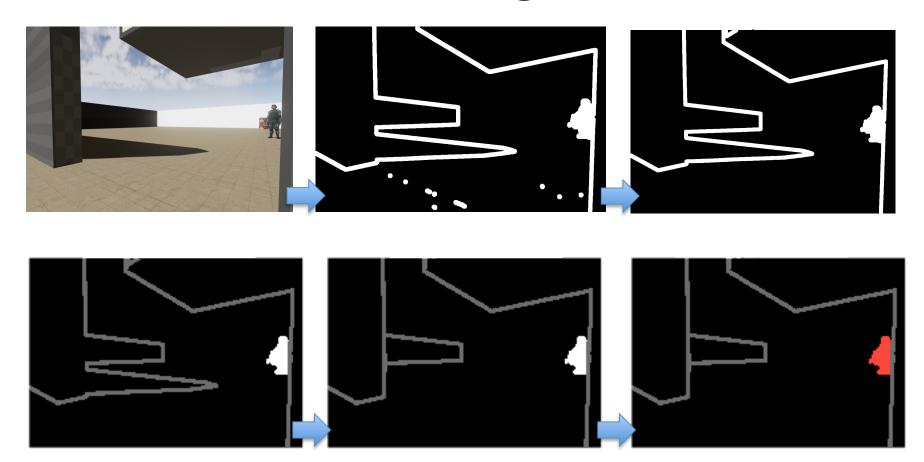


Example

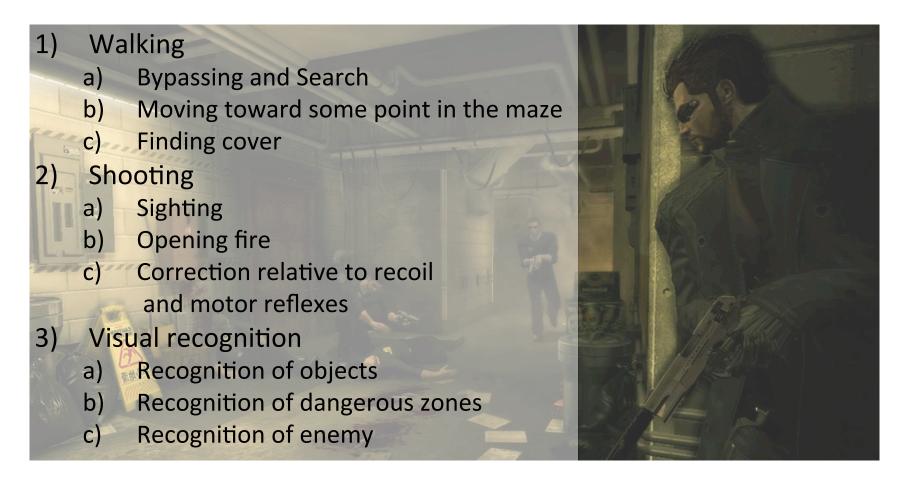


The density functions represent the process of visual recognition of objects when we search for an enemy but have to spend some time on processing object's shapes.

Visual Recognition



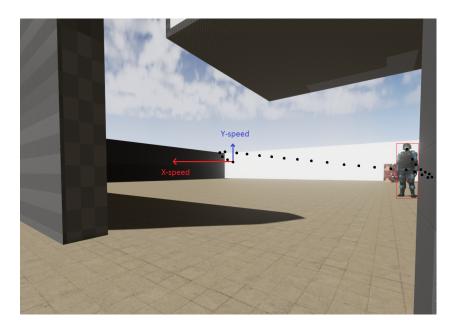
Decision Making Model

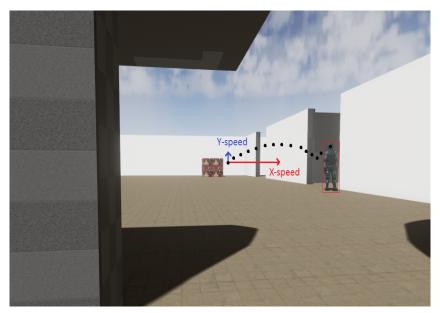


1a) \wedge 3c) \rightarrow 2a) \wedge 2b) \wedge 2c) (shooting after enemy recognition)

Process of Gaming

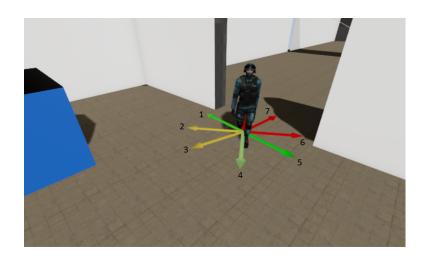
- The relative error depends on:
 - the angle between BOT's rotation movements and direction on the target
 - X-speed
 - Y-speed





Conclusion

In the current state we evaluate the parameters to identify the dangerous zones and to sight on enemy. We proceed with the comparison of the methods of visual recognition to improve our model.



Thank you for attention!

Department of Data Analysis and Artificial Intelligence National Research University Higher School of Economics

Makarov Ilya: iamakarov@hse.ru

Tokmakov Mikhail: matokmakov@gmail.com

Tokmakova Lada: lrtokmakova@yandex.ru

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