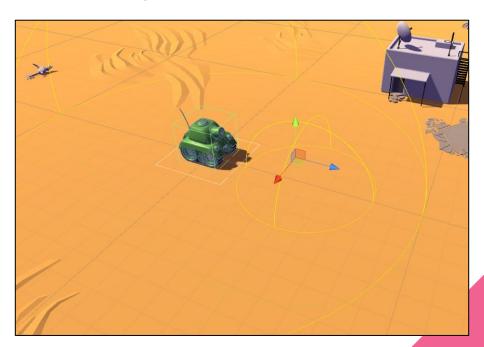
Al: Steering Behaviors 3

Ricard Pillosu - UPC

Wander Implemented

Take your time to compare your implementation with teacher's



Unity cool stuff

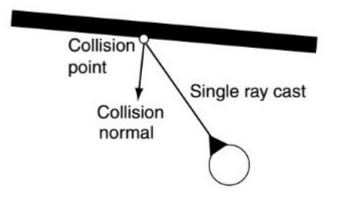
- AnimationCurves allows us to generate any curve and evaluate at some point
- With <u>LayerMask</u> we can filter searches to only GameObjects in that layer
- With foreach it's like a simplistic for (be advised, it is slower than for)
 - foreach(Collider col in colliders)
- RayCast allow us to test collisions against GameObjects with colliders
 - Will return true on hit and fill a RayCastHit
- Serializable classes
- Arrays of serializable classes are cool :)

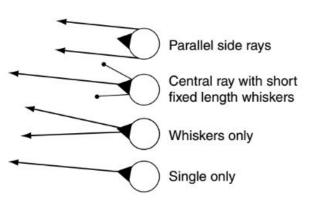
TODO 1: Separation

- Atomic behaviour that:
 - 1. Searches for all other tanks in the vicinity (configurable)
 - a. Move all agents to a new Layer
 - 2. Calculates a vector to simulate repulsion
 - 3. The strength of the vector comes from a curve
 - 4. Sum up all the vectors from all the agents to separate from

TODO 2: Obstacle avoidance

- Delegate (on seek) behaviour that:
 - Cast as many rays as configured to
 - a. Use a serialized class that defines direction and length
 - b. Create a layer of obstacles and filter with them when casting rays
 - 2. If one hits, it calculates a "escape target position"
 - 3. Use the hit position and the normal que gener
 - 4. Then execute Steer to that point





Homework

• No homework, just have all behaviours finished :)