

C#
(C Sharp)

Explosions

Making the Pokémon “Explodable”

We need a prefab that has colliders and physics:

1. Model settings: check “Generate Colliders”
2. Add model to the scene to create a game object
3. Mesh Collider: check “Convex”
*(*any mesh collider with a rigidbody needs to be set to convex)*
4. Add a Rigidbody component to the game object
5. Create a prefab from the game object

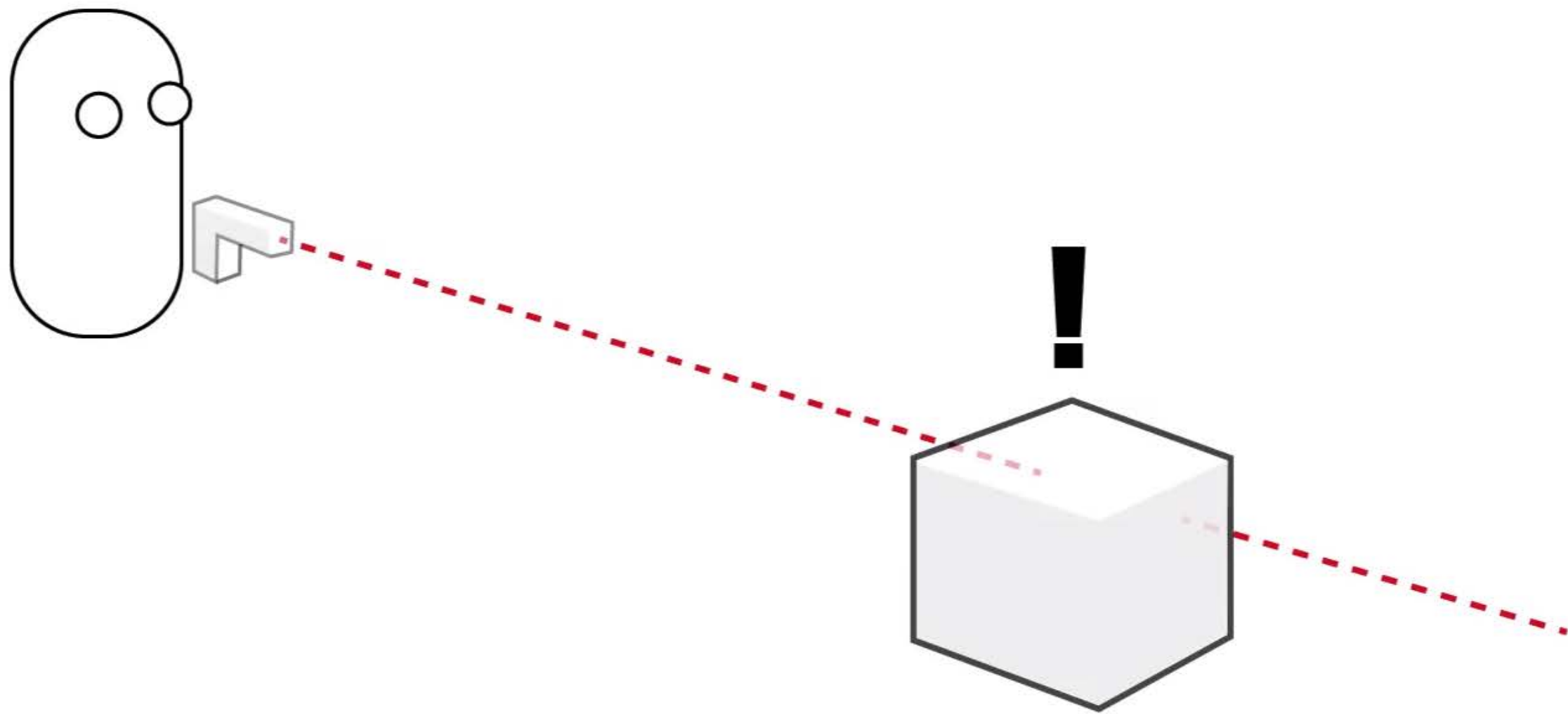
Three Scripts

- SpawnPokemon.cs
 - Attached to an empty game object
 - Randomly place Pokémon in our scene
- FireExplosive.cs
 - Attached to the player
 - Throw an explosive Poké Ball from the player
- Explosive.cs
 - Attached to the Poké Ball
 - Explodes on contact

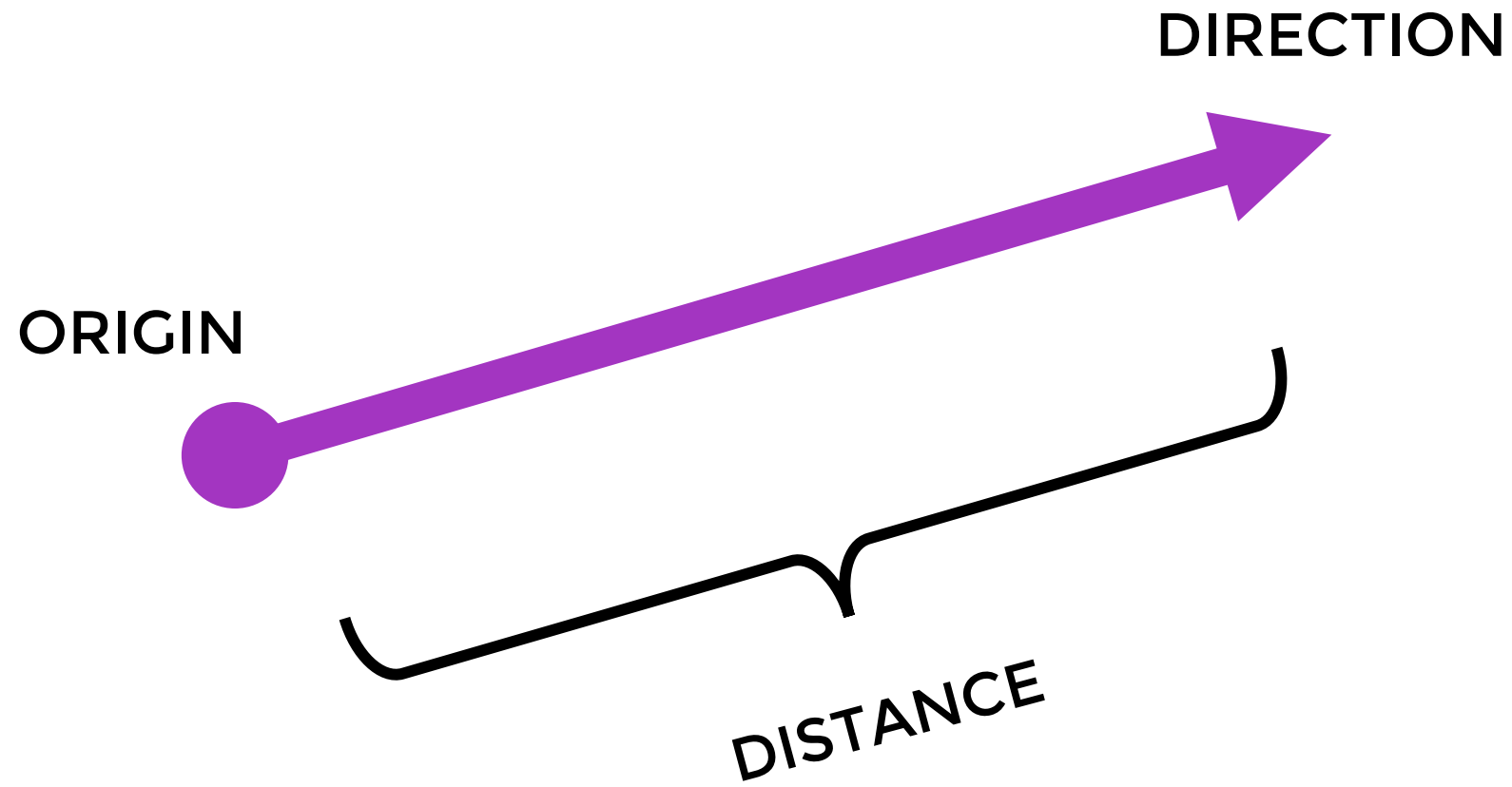
New Scripting Concepts

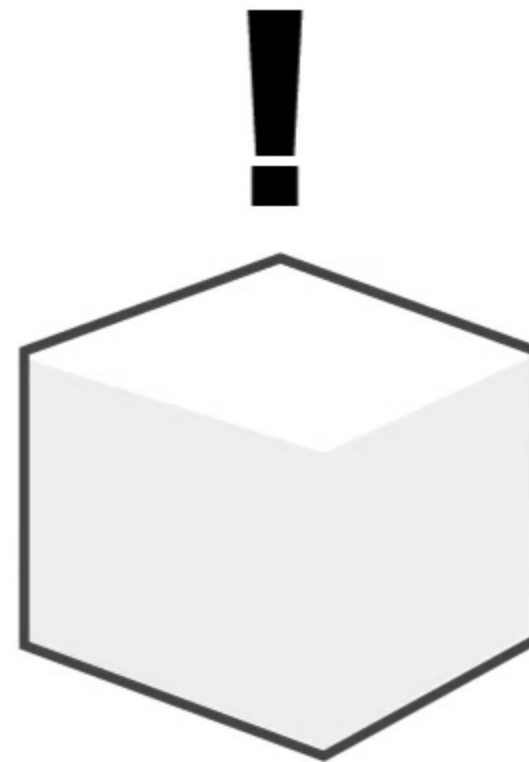
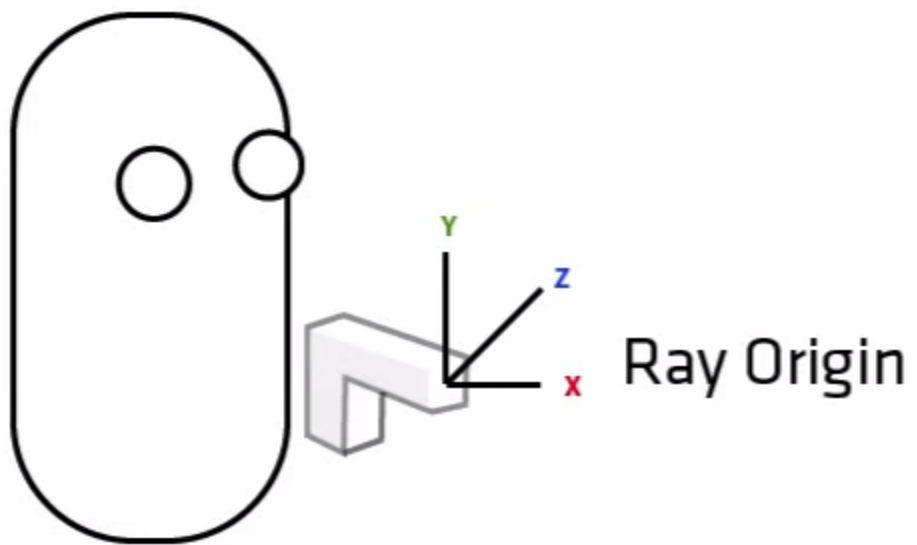
- [Destroy\(...\)](#)
- Finding collisions
 - [OnCollisionEnter\(Collision collision\)](#)
 - [Collision](#)
 - [Physics](#) class & [Physics.OverlapSphere\(...\)](#)
 - [Collider](#)
- Applying forces to rigidbodies
 - [Rigidbody.AddForce\(...\)](#)
 - [Rigidbody.AddRelativeForce\(...\)](#)
 - [Rigidbody.AddExplosionForce\(...\)](#)
- Drawing debugging information
 - [Gizmos](#) class & [OnDrawGizmos](#)
 - [Gizmos.color](#)
 - [Gizmos.DrawSphere\(...\)](#)

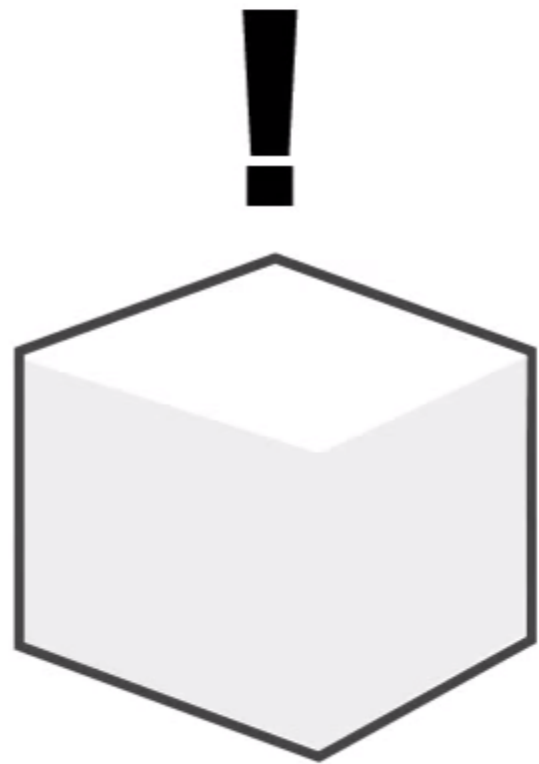
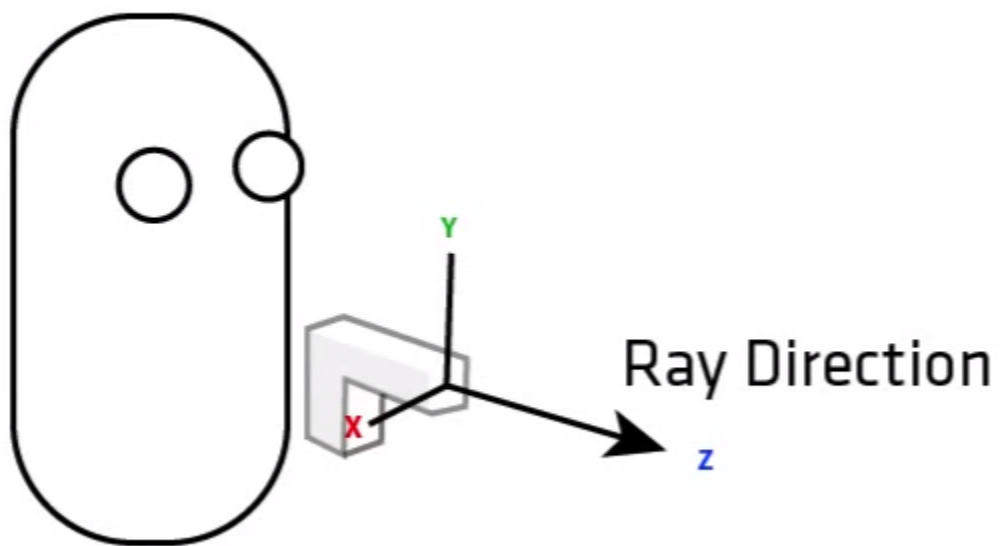
Raycasting

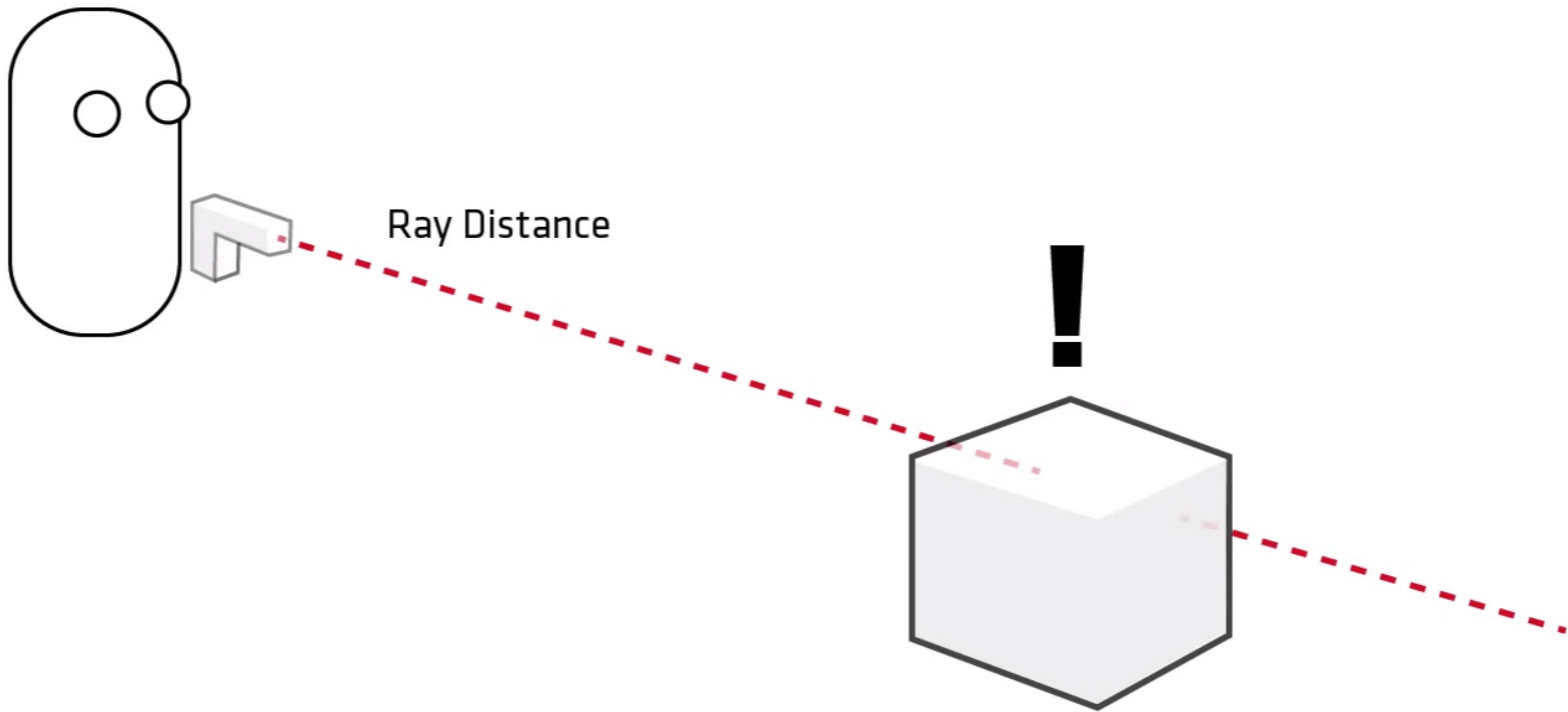


Ray









New Scripting Concepts

- Finding a 3D direction from the mouse position
 - [Input.mousePosition](#)
 - [Camera](#) class & [Camera.ScreenPointToRay\(...\)](#)
- Raycasting to find object(s) along a path
 - [Ray](#) struct
 - [Physics.Raycast\(...\)](#)
 - [RaycastHit](#) struct