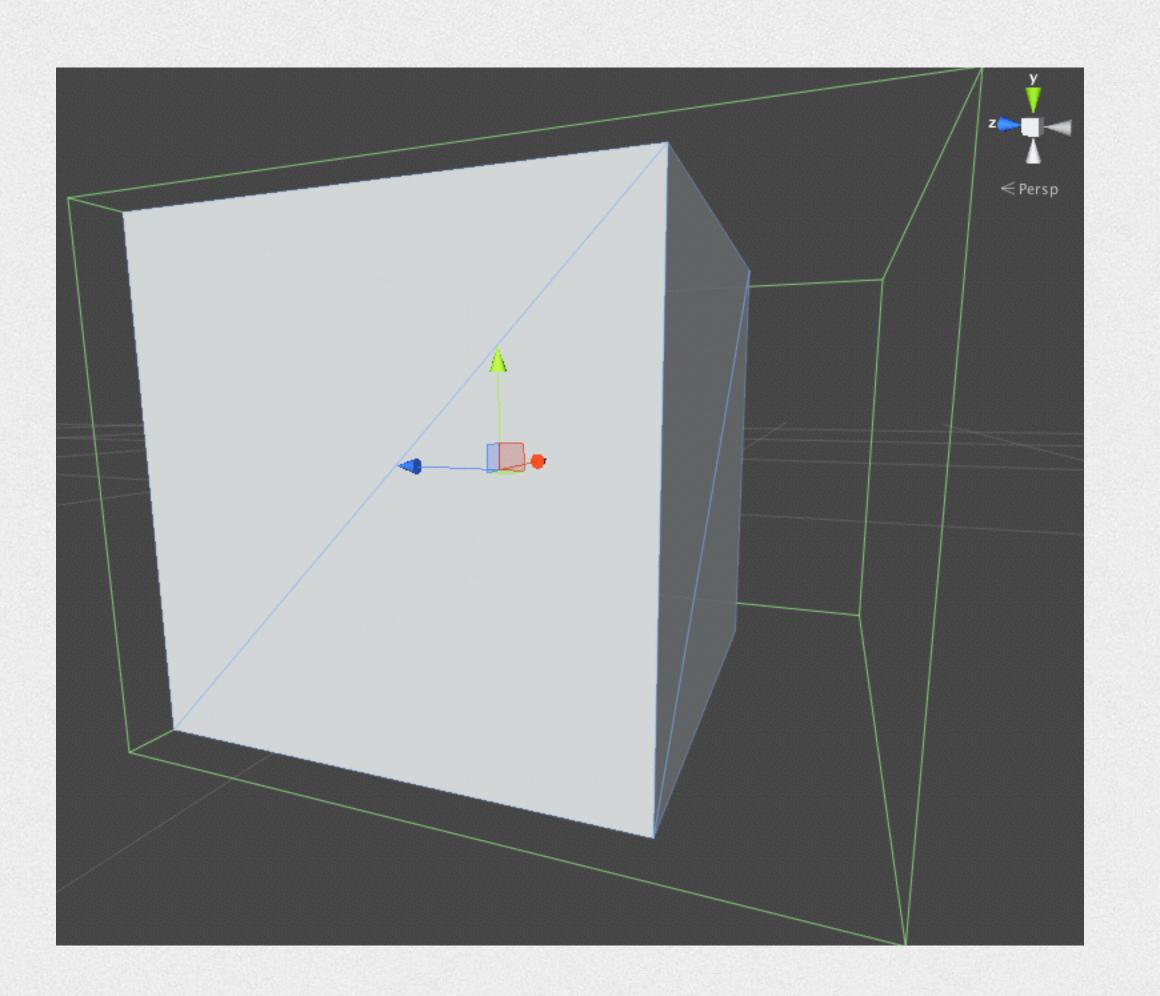
Intro to Unity

Physics

Colliders

- Informs when a collision has occurred.
- Can be a trigger custom code as well.
- There are several primitive shapes available.
- Several colliders can be combined to create compound shapes.
- In order to register collisions, one object must be a rigidbody

Colliders (cont'd)



Rigidbodies

- Rigidbodies allows a GameObject to react to physics.
- Can receive both force and torque.
- Can "opt-out" to reacting to gravity.
- Three levels of collision detection:
 - Discrete
 - Continuous
 - Continuous Dynamic

Raycasting

- Used to determine if a collider is intersecting a ray from a source.
- Raycasts can be used to simulate bullets fired from guns.
- Provide the source, direction, and distance to determine if a collision will occur.

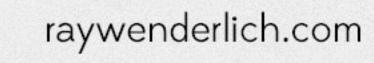
Joints

- Can create dynamic reactions with your physics objects.
- Joints can collapsed based upon the amount force it receives.
- Three types of joints available:
 - Fixed Joint
 - Hinge Joint
 - Spring Joint

Physic Material

- Used to adjust friction and bouncing of objects
- The Can be used to simulate the reaction against different types of surfaces: ice, concrete, rubber, etc.
- Can be applied to individual models or applied as the default throughout the entire project.

Demo



Challenge

