Simple Physics Toolkit - by Dylan Auty

This asset includes various scripts designed to make physics manipulation a simple task.

What this package includes:

- Magnet Control
- Water Control
- Wind Control
- Bounce Plate Control
- Zero Gravity Zone Control
- Relative Sample Scenes

I will be updating this package with many more scripts! Thank you for your support, it really is appreciated!

Let's go over the setup/usage steps for each script. All steps assume you have the package imported.

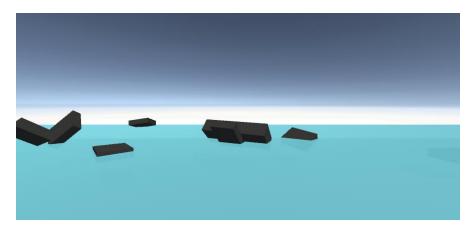


Magnet Control:

- 1. Drag the 'Magnet.cs' onto an object which you would like to add magnet behaviour to
- 2. Adjust the settings according to your preference:
 - Magnet Force (Float) The force at which Rigidbodies will be attracted
 - Attract (Boolean) Controls whether magnet is active
 - Inner Radius (Float) Radius at which magnet stops attracting
 - Outer Radius (Float) Radius at which magnet attracts
- 3. Play the scene and observe as all Rigidbody objects within range are attracted toward the magnets centre point.

Requires: Null – Should run as intended without any additional components attached

Notes: Magnet script currently only allows for attraction. However repulsion will be added in the next update.



Water Control (Beta):

- 1. Drag the 'Water.cs' onto an object which you would like to add water behaviour to
- 2. Adjust the settings according to your preference:
 - Pressure (Float) Force at which Rigidbodies will be pushed to surface
 - Water Drag (Float) Drag applied to submerged objects
 - Size (Vector 3) Size of the box which represents water
- 3. Play the scene and observe as all submerged Rigidbodies float to the surface of the water object

Requires: Null – Creates box collider upon run.

Notes: Water script is currently in beta and requires a bit of tampering with the settings to create a realistic effect.



Wind Control:

- 1. Drag the 'Wind.cs' onto an object which you would like to add wind behaviour to
- 2. Adjust the settings according to your preference:
 - Lift (Float) Force at which Rigidbodies will be pushed in direction
- 3. Rotate the Wind object in the direction you would like the wind to be applied (As shown by gizmo)
- 4. Play the scene and observe as all Rigidbody objects within range get pushed towards the direction.

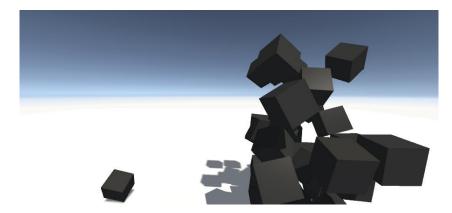
Requires: Collider (Any type) – this will be used as trigger.

Bounce Plate Control:

- 1. Drag the 'BouncePlate.cs' onto an object which you would like to add bounce behaviour to
- 2. Adjust the settings according to your preference:
 - Bounce (Float) Force at which Rigidbodies will bounce
- 3. Play the scene and observe as all Rigidbody objects bounce when they touch the bounce plate

Requires: Collider (Any type) – this will be used as trigger.

Notes: This is a simple script I thought I would through in with the package.



Zero Gravity Zone Control:

- 1. Drag the 'ZeroGravity.cs' onto an object which you would like to add zero gravity behaviour to
- 2. Play the scene and observe as all Rigidbody objects inside of collider become unaffected by gravity

Requires: Collider (Any type) – this will be used as trigger.

Notes: Simple utility script which switches the 'Use Gravity' Boolean in the rigidbidy off/on.

That wraps up the technical stuff. Please get in touch if you need any assistance getting any of these scripts up and running.

I really appreciate the support. Any suggestions for improvements/additional features are always welcomed.

Thanks.