

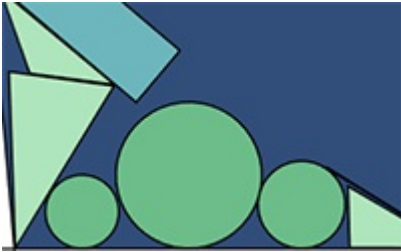
# Draw 2D Physics Shapes in Unity3D

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This tutorial project provides an example of how to draw shapes with the cursor in Unity similar to [IncrediBots](#) or [Phun \(now Algodoo\)](#).

The core logic of this project uses vertices specified from the cursor's coordinates to dynamically generate and configure a mesh, outline, and 2D collider.

- [Go to the Tutorial](#) to read about how it works in greater detail.
- [Play it in your browser](#)
- [Unity Asset Store Bundle](#)



## Project Overview

Requires Unity3D (tested with 2017.x, but should also work with 5.x)

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├	_Scenes	
	└ Main.unity	- The project's main scene
├	Prefab	
	├ Circle.prefab	- Circle physics shape
	├ Platform.prefab	- Stationary rectangular physics platform
	├ Rectangle.prefab	- Rectangle physics shape
	├ RotatingPlatform.prefab	- Rotating rectangular physics platform
	└ Triangle.prefab	- Triangle physics shape
├	Scripts	
	├ DrawCircle.cs	- Creates circle meshes and colliders
	├ DrawController.cs	- Captures mouse input and creates shapes
	├ DrawRectangle.cs	- Creates rectangle meshes and colliders
	├ DrawShape.cs	- Base class for all shapes
	├ DrawTriangle.cs	- Creates triangle meshes and colliders
	├ ExplosionController.cs	- Generates explosion forces at the cursor
	├ TestPolygon.cs	- Demonstrates how to draw polygon meshes
	├ Triangulator.cs	- Generates triangles from polygon vertices
	└ Util.cs	- Provides handy operations on vectors

## Running the Project

To run the project, open `_Scenes/Main.unity` and click on the play button.

In the main scene there will be three buttons: square, circle, and triangle. Click on one of the buttons and then click 2-3 points in the game view to draw and release a physics shape. The shape will react to gravity and interact with other objects in the scene.