## **Object deformation**

**Computer graphics** 

## Object deformation

This project is focused on object deformation in 2D and it is based on spring-mass system and delaunay triangulation. For testing and demonstration purposes an implementation of simple collision detection system is added to the application. Project is created in Unity game engine and the source code is written in C#.

## System has 2 scenes:

- SampleScene initial scene for testing
- DemoScene scene for mainly demonstration purposes, but can be also used for testing

Properties of object can be modified through editor to achieve a certain state of deformation, but each property should be changed carefully because for some numbers system can be unstable. By pressing the mouse button, velocity is added to the object and it will move in the direction of the mouse cursor.

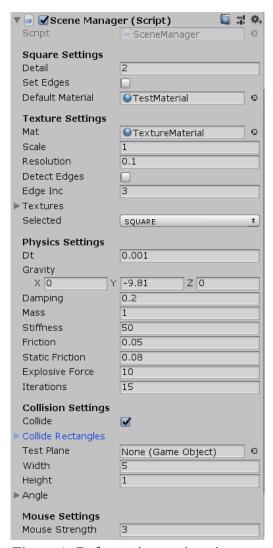


Figure 1: Deformation settings in editor

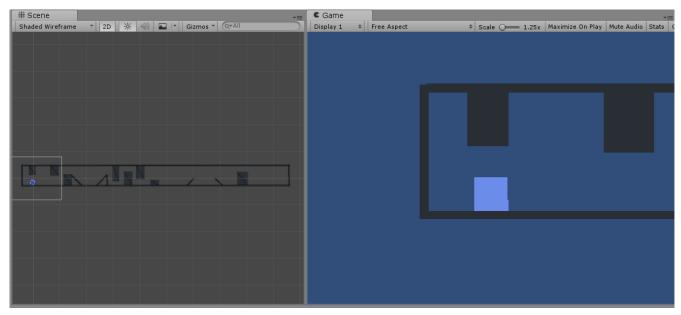


Figure 2: Scene view and game view in demonstration scene