

· Inheritance: "is a" PelationShip

· Composition: "has a " relationship

A Shared affibute between these Shafes is that they both have an area, it is just calculated differently " A Pectangle is a Shape."

"A circle is a Shafe."

"A Pectangle has a width and a height."

"A circle has a <u>radius</u> and a circumference."

Scene Changer. CS

+ Scare Naneger

Sketch of the Oliginal Scene Changer System for 30 Collisions

- used by game Manager

Awake () Load Scene ()

Get Current Scare Name()

On Enable()

On Disable ()

Check For Click (()

Taskon Click ()

On Scene Loaded ()

Player Collision.cs

+ Scene Changer

+

Uniquely handles UI

button interactions

Public Interface I SureChanger & // Contains Shared logic Me.g. public String Scare Name & get; Set; 3 This Interface would be applied to both 30 and 20 - based Scene Changes. Maybe stere's a good Interface for Collisions of UT that's aleady but boilt-in? Public Interface. I Collidable & / Stuff about Collision This interface would only be applied to 3D collision-based Scene Changes. Private Dictionary . Maybe 2 Parareters? · Game Object & then a Scene ASSet as Key & Value, respectively.

Goal: the user Should be able to drag-and-drop into Inspector

Private Dictionary to be added to on the object

Sere anger 3D:

· Needs the On Collision Enter () Scere Changer 2D:

· Needs the Checkforclicks () and TaskONClick() methods.

company the dictionary from Player Collision.cs:

Set Player Location (Player Location, Location) { Method to call enum (key) is in Dictionary transform. Position = location Positions [Toearion] actual Dictionary

Cet Dictionary Scene (Game Object, other Object) { method to call key id in Dictionary

Scene = Scene Dictionary Cotter Object

The Scere we want. Dictionaly

to Switch to

Collision Handler

Void On Collision Enter ():

// get the object in question &

// get the object you're collidity with

Player Movement (Chould have some kind of inheritance or interface)

Void on Collision Enter ():

(Maybe perform a switch case to

(I see what they are collidity with?

Scene Changer I Collision Detection The Scene Changer UI Scene Changer Collis What methods do these new Classes	Scere Changer UI and Scere Changer Collision "are a" form of a Scere Changer (Inharitance) Share?
· Lord Scire() · Get Corrent Scire Name() · On Enable() · On Disable() · On Scere Loaded · Geyregan	Protected properties: Scare Nave (String) Succession 7.
Abstract Robot ISWITCHABLE "is a" "has a"	For Scene Changers: Both "are a" Scene Switcher (inheritance). But Scene Changer Collision "has a" collider while Scene changer OF doesn't.

Lond Scene (Scene)

This Should be the value asset

associated with the dichonary

Methods	I Scene Changer	I Collidable	Iclidable
Awake()	X		
Start()	X		
Get Dictionary()	X		
Load Scene ()	X		
Get (Wirent Scene Name ()	1 X X X X X X		
ON Enable()	X		D 0 0 0
On Disable ()	X		
On Scene Loaded ()	X		
ON Collision Enter()		· · · · · · · · · · · · · · · · · · ·	5 6 6 6
Check For Clicks ()	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		X
Task onclick()			×
Check Folkey ()	X		
Get Dictionary Scene()	X. X		