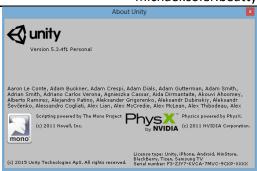
Cardboard VR Simple Sports



1. GENERAL INFORMATION

DATE OF DOCUMENT	16/07/2016
NAME OF THE PROJECT	Cardboard VR Simple Sports
AUTHOR	Michael Soler
UNITY VERSION	5.3.4.F1 PERSONAL (NEWER VERSIONS DO
	NOT WORK)
CONTACT	michael.soler.beatty@gmail.com



Includes video tutorial at the end of the document



Index

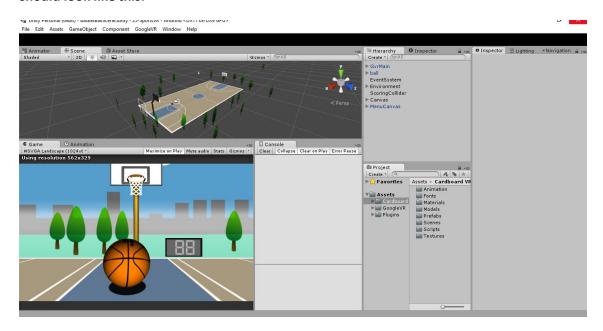
1.	GENERAL INFORMATION	. 1
2.	IMPORTING INFORMATION	. 2
3.	PROJECT DESCRIPTION	. 3
4.	LAYERS, TAGS AND COLLIDERS	٠.
_	CODIDTING INFORMATION	,
5.	SCRIPTING INFORMATION	. (
6	VIDEO TUTORIAL FOR ADVANCED TECHNICAL EXPANATIONS	-
υ.	VIDEO TOTOMALTON ADVANCED TECHNICAL EXTANATIONS	

2. IMPORTING INFORMATION

This package works with googleVR SDK=0.8 and can be downloaded from:

https://developers.google.com/vr/unity/download

Once googleVR is downloaded and imported to unity, import our package. Your final project should look like this:



3. PROJECT DESCRIPTION

This asset gives our customers the basic tools to build a VR sports game. It includes two different scenes, the first one is a basketball game, while the second one is a football game. The user is able to interact with the ball using the magnetic trigger (or other means) and he can score by pressing it again. The environment is prepared for VR (low poly count).

New! Try or apk for free!:

https://drive.google.com/file/d/0B5VocdPbQPqVNVF1R1lkOXF1N28/view?usp=sharing

This package contains the following:

- -The necessary FBX, textures, models, scripts shown in the "apk".
- -Scripts manage the ball interaction and the scoring.
- -Two demo scenes: football scene and basketball scene.
- -Complete documentation to understand the principles of each package and full email support at: michael.soler.beatty@gmail.com.

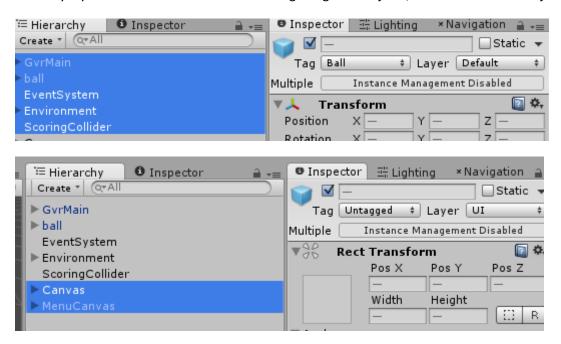
This package needs the following:

- -Google VR SDK=0.8 https://developers.google.com/vr/unity/download

4. LAYERS, TAGS AND COLLIDERS

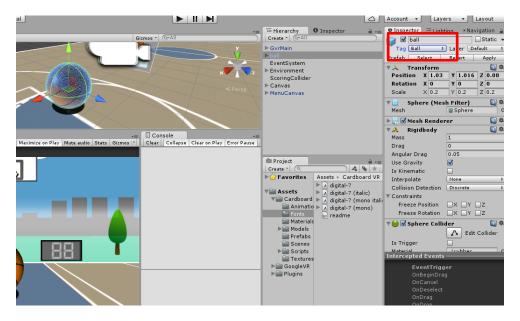
LAYERS

The only layer that is used is the default for regular gamenobjects, and UI for the GUI objects.



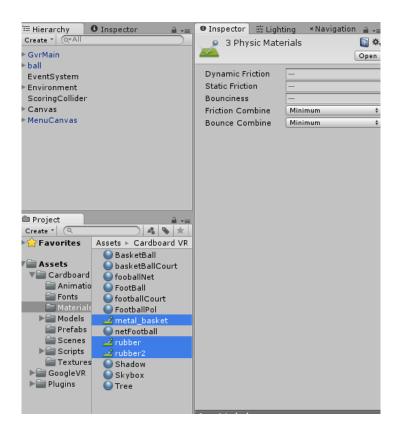
TAGS:

Please verify that the "balls" on the basketball and football scenes are tagged as Ball. This tag is used on the script to verify if the user is "pointing" at the ball or the environment in order to perform different actions.



COLLIDERS

Mesh colliders and box colliders are used for most of gameobjects that are placed as the
environment. The balls are using sphere colliders and physic materials in order to create
the bouncing effect. You can change the "bouncing restitution" by modifying the
following parameters:



5. SCRIPTING INFORMATION

We always comment our script on the C# to make developers follow our code better. We have copied the main script's variables and functions in the following table and we will explain how the package works in a schema:

BallInteraction.cs				
It is the script that allows the player to pick and throw the ball into the basket / or goal.				
Important variables	Important functions			
<pre>// this is making reference to the cardboard object public GvrViewer CB; // this variable is used to know which ball is selected in case there is more than one public GameObject selectedBALL; // this is the head gameObject public Transform head; // this is the speed of the ball when folowing the head movemen t public float displacementSpeed; // this is the force value public float throwingForce=20f; // this is the rigid body attached to the ball Rigidbody rigBody; // this is the distance of the ball to the player, in case you want to create advanced interactions float distanceToPlayer; // this is the time parameter, that can be used to check the ti me between shots float elapsed; // chose Basketball or football public bool isBasket=false;</pre>	// THIS FUNCTION IS CALLED T O CHANGE THE STATE and CHOOS E A SELECTED OBJECT public void pointerClick(Gam eObject go)			

Scoring.cs			
It is the script that updates the score			
Important variables	Important functions		
<pre>//this is the public score for the game public int score; // this is the time variable used to prevent double- scoringpublic float elapsed; // text scoring basket public UnityEngine.UI.Text textScore; // animation of the net of the basket public Animator animNet;</pre>	<pre>//this function updates the socore when ball enters th e collider void OnTriggerEnter(Collid er col)</pre>		

6. VIDEO TUTORIAL FOR ADVANCED TECHNICAL EXPANATIONS

We are trying to give users a more advanced technical service by creating some videos that explain the main aspects of our packages and gives a detailed explanation about how the package works. You will find this tutorial at the following link:



https://youtu.be/ViXAQDfpOpc