```
http://wiki.unity3d.com/index.php?title=ObjectLabel
(2)
\begin{tabular}{l} 
(? \(\otimes\) \\
f \\
\hline
\end{tabular}

\section*{ObjectLabel}

From Unify Community Wiki

Author: Eric Haines (Eric5h5)

\section*{Contents}
- 1 Description
- 2 Usage
- 3 JavaScript - ObjectLabel.js
- 4 Description
- 5 C\#- ObjectLabel.cs

\section*{Description}

Makes a GUIText label follow an object in 3D space. Useful for things like having name tags over players' heads.

\section*{Usage}

Attach this script to a GUIText object, and drag the object it should follow into the Target slot. For best results, the anchor of the GUIText should probably be set to lower center, depending on what you're doing. Offset is used to position the label somewhere relative to the actual target's position. The default of \((0,1,0)\) is useful for having the label appear above the object, rather than appearing right on top of it. If ClampToScreen is on, the label will never disappear even if the target is off the screen, but will attempt to follow as best it can (for example, if the target is off to the left of the camera out of sight, the label will still be visible on the left). ClampBorderSize sets how much space will be left at the borders if the label is being clamped to the screen, to help ensure that the label is still readable and not partially cut off. This is in viewport space, so the default .05 is \(5 \%\) of the screen's size. If UseMainCamera is checked, the first camera in the scene tagged MainCamera will be used. If it's not checked, you should drag the desired camera onto the CameraToUse slot, which is otherwise unused if UseMainCamera is true.

Note: This script also works with GUITextures.

\section*{JavaScript - ObjectLabel.js}
```

var target : Transform;
var offset = Vector3.up;
var clampToScreen = false;

```
// Object that this label should follow
// Units in world space to offset; 1 unit above ob
// If true, label will be visible even if object is
var clampBorderSize \(=.05\); // How much viewport space to Leave at the borders
```

http://wiki.unity3d.com/index.php?title=ObjectLabel
21 captures
18 Nov 2012-29 Oct 2018

```

```

private var camTransform : Transform;
function Start () \{
thisTransform = transform;
if (useMainCamera) cam = Camera.main;
else cam = cameraToUse;
camTransform = cam.transform;
}
function Update () {
if (clampToScreen) {
var relativePosition = camTransform.InverseTransformPoint(target.pc
relativePosition.z = Mathf.Max(relativePosition.z, 1.0);
thisTransform.position = cam.WorldToViewportPoint(camTransform.Trar
thisTransform.position = Vector3(Mathf.Clamp(thisTransform.positior
}
else {
thisTransform.position = cam.WorldToViewportPoint(target.position .
}
}
@script RequireComponent(GUIText)

```

\section*{Description}

Converted to C\# by Roidz (Ward Dewaele). Use in the same way as the javascript.

\section*{C\# - ObjectLabel.cs}
```

using UnityEngine;
using System.Collections;
[RequireComponent (typeof (GUIText))]
public class ObjectLabel : MonoBehaviour {
public Transform target; // Object that this Label should follow
public Vector3 offset = Vector3.up; // Units in world space to offset; 1 unit at
public bool clampToScreen = false; // If true, label will be visible even if objec
public float clampBorderSize = 0.05f; // How much viewport space to leave at the l
public bool useMainCamera = true; // Use the camera tagged MainCamera
public Camera cameraToUse ; // Only use this if useMainCamera is false
Camera cam ;

```
```

http://wiki.unity3d.com/index.php?title=ObjectLabel
21 captures
|Go OCT
thisTransform = transform;
if (useMainCamera)
cam = Camera.main;
else
cam = cameraToUse;
camTransform = cam.transform;
}
void Update()
{
if (clampToScreen)
{
Vector3 relativePosition = camTransform.InverseTransformPoint(target.pc
relativePosition.z = Mathf.Max(relativePosition.z, 1.0f);
thisTransform.position = cam.WorldToViewportPoint(camTransform.Transfor
thisTransform.position = new Vector3(Mathf.Clamp(thisTransform.positior
Mathf.Clamp(thisTransform.position.y,
thisTransform.position.z);
}
else
{
thisTransform.position = cam.WorldToViewportPoint(target.position + oft
}
}
}

```

Retrieved from "http://wiki.unity3d.com/index.php?title=ObjectLabel\&oldid=18700"
Categories: JavaScript MonoBehaviour GUI
- This page was last modified on 23 November 2014, at 16:23.
- This page has been accessed 62,081 times.
- Content is available under Creative Commons Attribution Share Alike.```

