In this article, I will explain how to load image at runtime in unity scene. I will cover following ways by which

Unity

Load Image at Runtime in Unity 🗂 July 8, 2017 🎍 Gyanendu Shekhar 🔍 2 Comments 🕒 Unity

you can add image at runtime in unity. ■ Load image from Resource folder

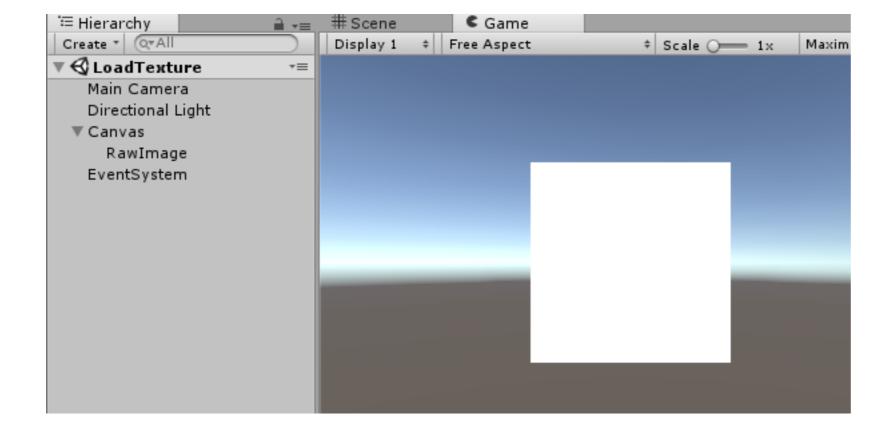
Load image from any location of local computer

Load image from a byte array

Load image from an URL

Load Image from Resource folder

Let's prepare a simple scene in unity for loading images at runtime. I have added Rawlmage game object in the scene.



**Load Texture** 

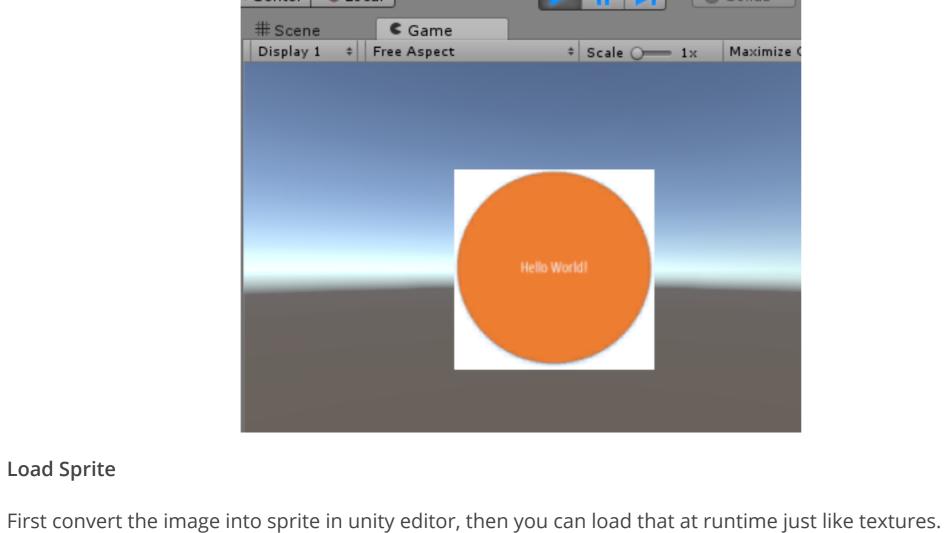
Use Resources.Load method to load image from resources folder. First, copy your image in the Resources folder. You can find the image used in this article over here. Project

4 4 \* Create \* Q Assets ► Resources ► Images New Saved All Materials All Models All Prefabs All Scripts SampleIma...) SampleSpri... / 🕋 Assets ▼ 
image: Resources Scripts SampleImage.png ——— Attach below script to the Main Camera or any other game object.

2 using UnityEngine.UI;

```
4 public class LoadTexture : MonoBehaviour {
       Texture2D myTexture;
       // Use this for initialization
       void Start () {
           // load texture from resource folder
           myTexture = Resources.Load ("Images/SampleImage") as Texture2D;
11
           GameObject rawImage = GameObject.Find ("RawImage");
           rawImage.GetComponent<RawImage> ().texture = myTexture;
13
14
15 }
Run the application.
```

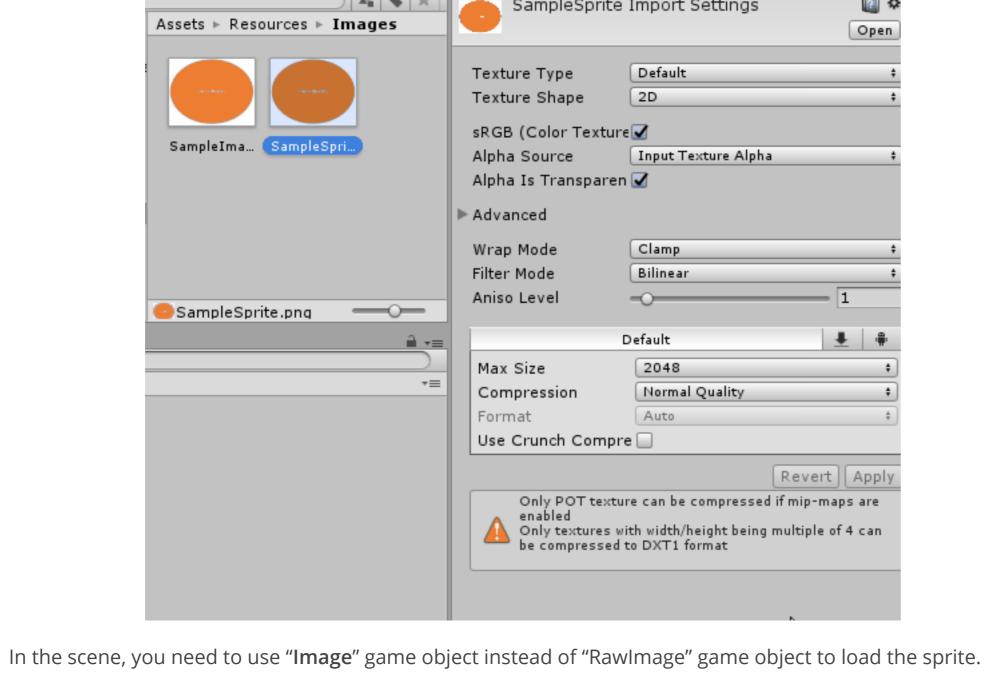
using UnityEngine;



**Load Sprite** 

4 % \* SampleSprite Import Settings Assets ► Resources ► Images Open

Inspector
 Inspect



Directional Light ▼ Canvas

Display 1 + Free Aspect

**€** Game

≟ +≡ #Scene

Ψ≡



Sprite sprite; // Use this for initialization void Start () {

4 public class LoadSprite : MonoBehaviour {

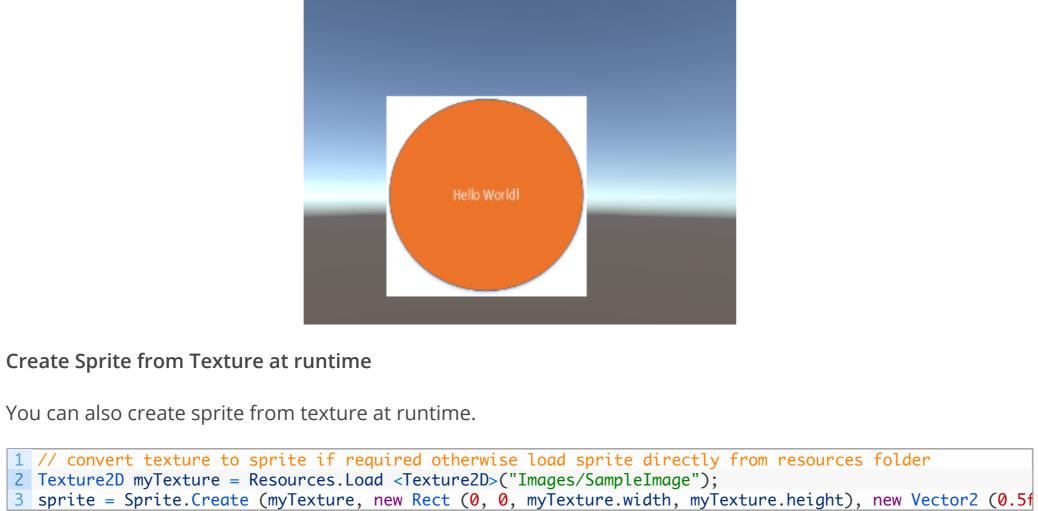
'≔ Hierarchy

Create ▼ (Q▼AII

C LoadSprite

```
sprite = Resources.Load <Sprite>("Images/SampleSprite");
           GameObject image = GameObject.Find ("Image");
            image.GetComponent<Image>().sprite = sprite;
12
13 }
Run the application.
```

— 1x Maximize On Play Mu



Load image from any location of local computer Use WWW class for loading image from any local directory. Make sure the file path is correct. The file path should be like "file:///yourPath".

// Use this for initialization

yield return null;

// Use this for initialization

void Start () {

4 using UnityEngine.UI;

WWW www = new WWW ("file:///D://SampleImage.png");

IEnumerator Start () {

while(!www.isDone)

1 using System.Collections;

2 using System.Collections.Generic; 3 using UnityEngine; 4 using UnityEngine.UI; 6 public class LoadLocalMachine : MonoBehaviour {

```
GameObject image = GameObject.Find ("RawImage");
           image.GetComponent<RawImage>().texture = www.texture;
15
16 }
Run the application. You will get the same result as above.
Load Image from byte array
We can also load image using a byte array with LoadImage method of Texture2D class.
   using UnityEngine;
2 using UnityEngine.UI;
   using System.IO;
   public class LoadImageDemo : MonoBehaviour {
```

// read image and store in a byte array
byte[] byteArray = File.ReadAllBytes(@"D:\SampleImage.png"); //create a texture and load byte array to it // Texture size does not matter Texture2D sampleTexture = new Texture2D(2,2); // the size of the texture will be replaced by image size bool isLoaded = sampleTexture.LoadImage(byteArray); // apply this texure as per requirement on image or material GameObject image = GameObject.Find("RawImage"); if (isLoaded) 20 21 22 23 } image.GetComponent<RawImage>().texture = sampleTexture; Load Image from an URL Image can also be loaded from any URL using WWW class. using System.Collections; 2 using System.Collections.Generic; 3 using UnityEngine;

WWW www = new WWW("http://gyanendushekhar.com/wp-content/uploads/2017/07/SampleImage.png");

yield return null; Debug.Log (www.texture.name); GameObject rawImage = GameObject.Find ("RawImage"); rawImage.GetComponent<RawImage> ().texture = www.texture; 16 17 }

Run the application. You will get the same result as above.

**Gyanendu Shekhar** 

PETER MAVRONICOLAS

April 27, 2018 at 12:55 pm

unity3d and android development.

← Getting started with Facebook Gameroom: Unity 5 Tutorial

2 thoughts on "Load Image at Runtime in Unity"

// Use this for initialization

while (!www.isDone)

6 public class LoadWWW : MonoBehaviour

IEnumerator Start () {

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Gyanendu Shekhar is a technology enthusiast. He loves to learn new technologies. His

area of interest includes Microsoft technologies, Augmented reality, Virtual reality,

Image can also be loaded from asset bundles. Please refer my article Load Asset Bundle in Unity for details.

Hope you enjoyed reading this article. Please post your comments for queries and feedback. Thanks for

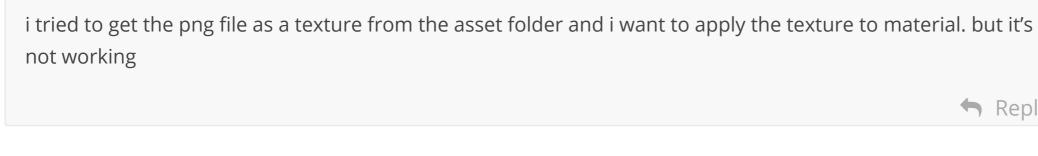
Excellent tutorial! Are you able to run the same code on a 3D object such as a cube or do we have to use

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Tuples in C# →

Manoj balaji



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Gyanendu,

'canvas' and 'raw image'?

**!** June 7, 2018 at 1:04 pm

**%** Permalink

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