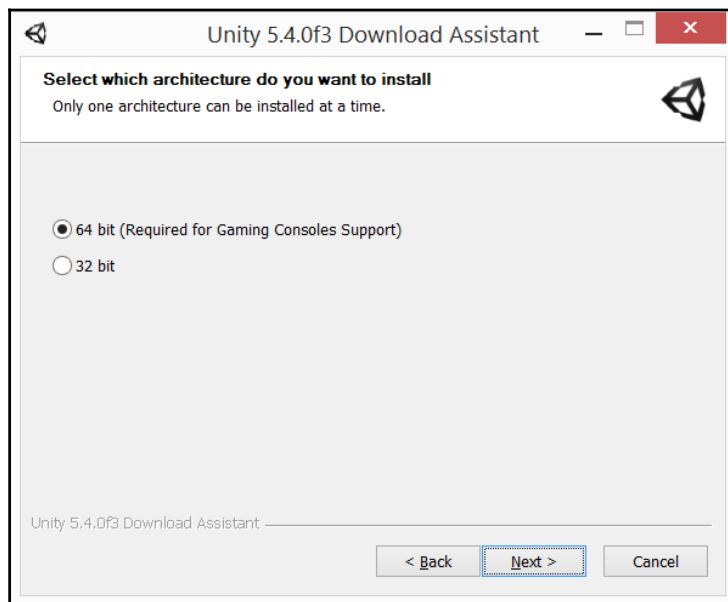
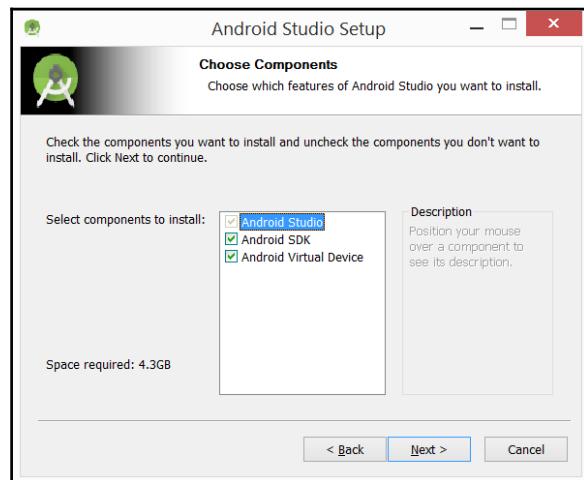
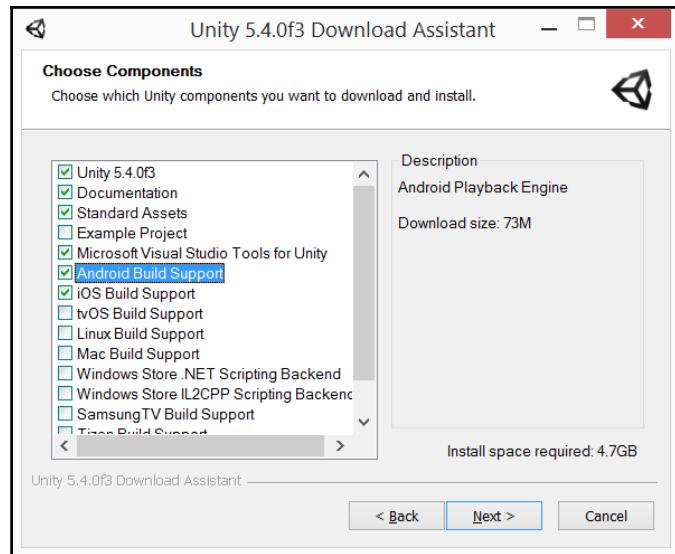
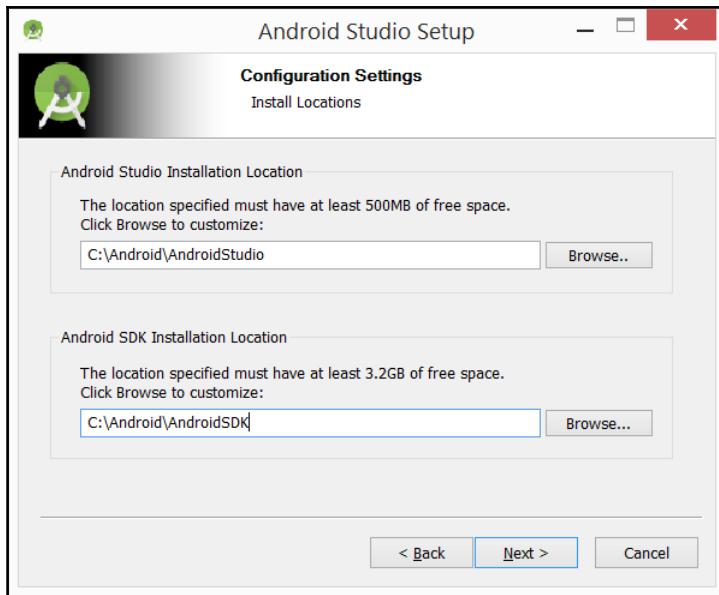


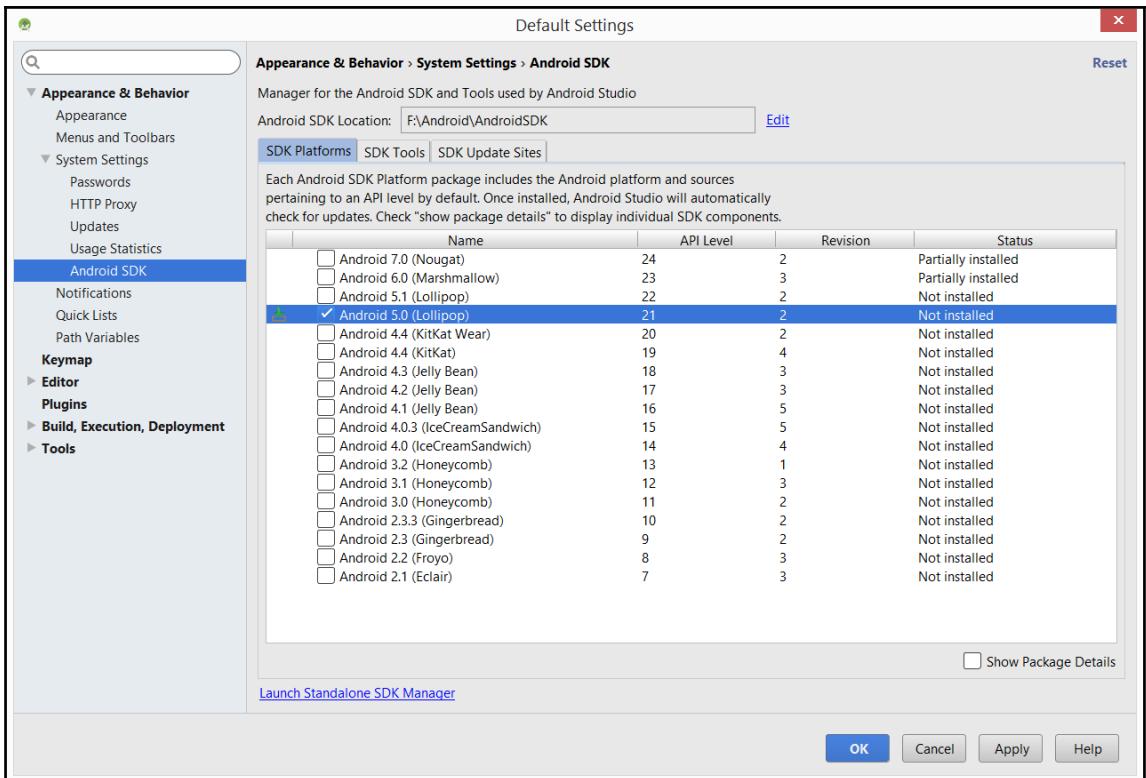
Augmented Reality Game Development

Chapter 1: Getting Started

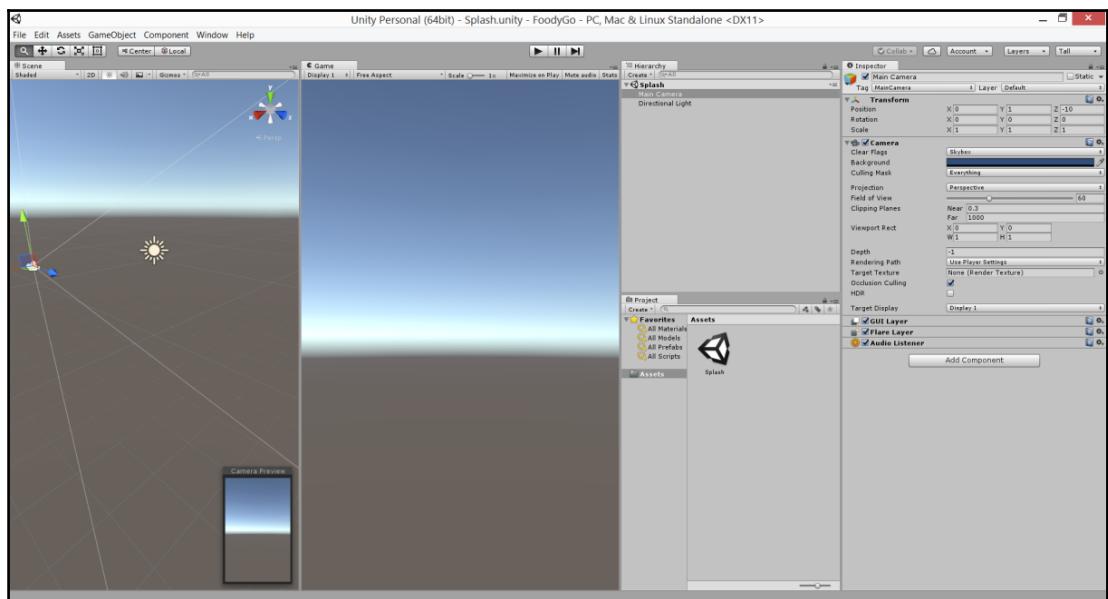
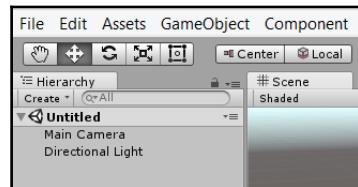
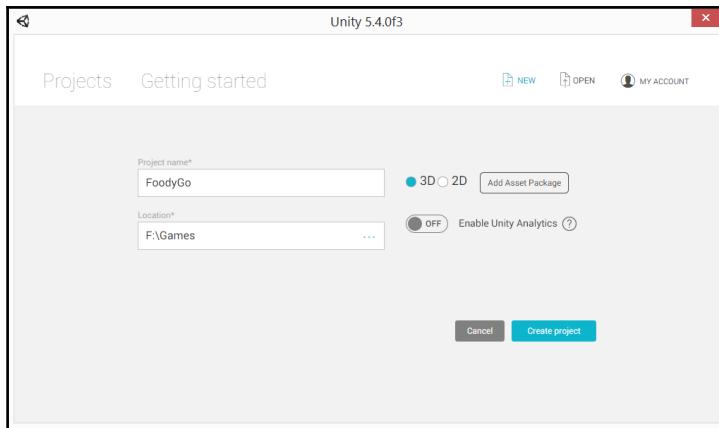


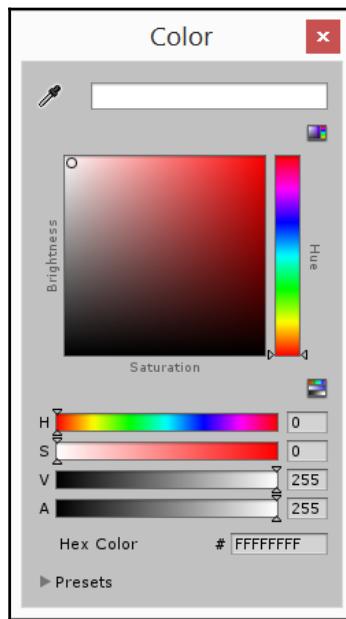
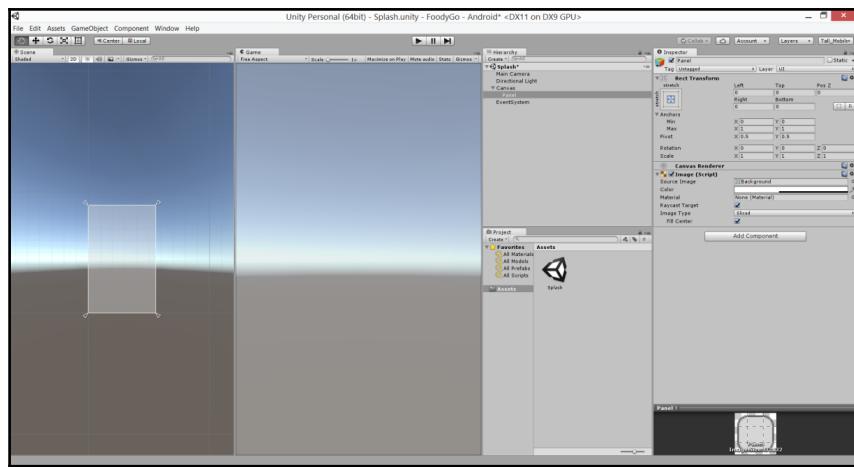


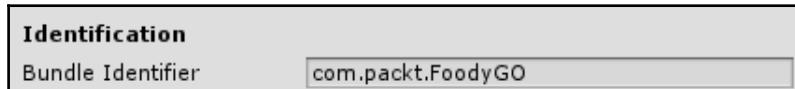
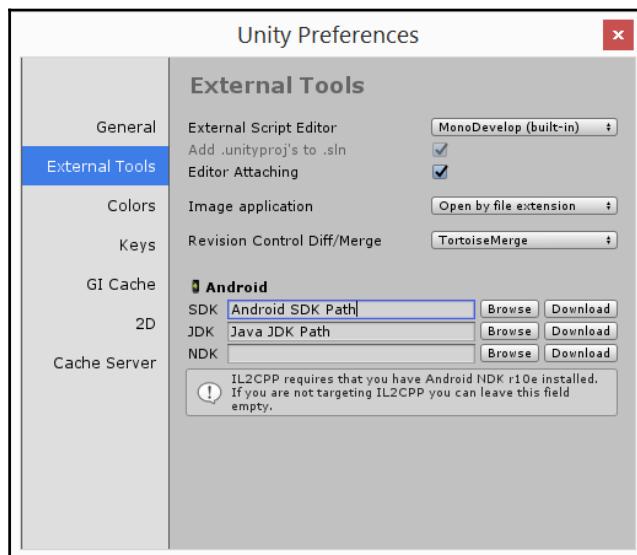
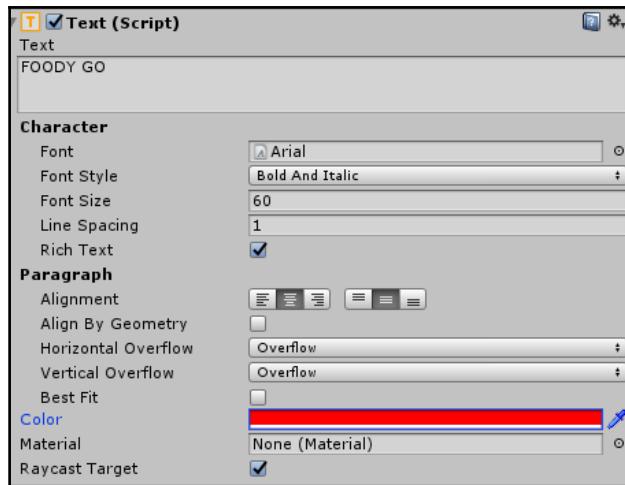




```
F:\Android\AndroidSDK\platform-tools>cd ..
F:\Android\AndroidSDK>cd platform-tools
F:\Android\AndroidSDK\platform-tools>adb devices
List of devices attached
BH90B2U116      device
```

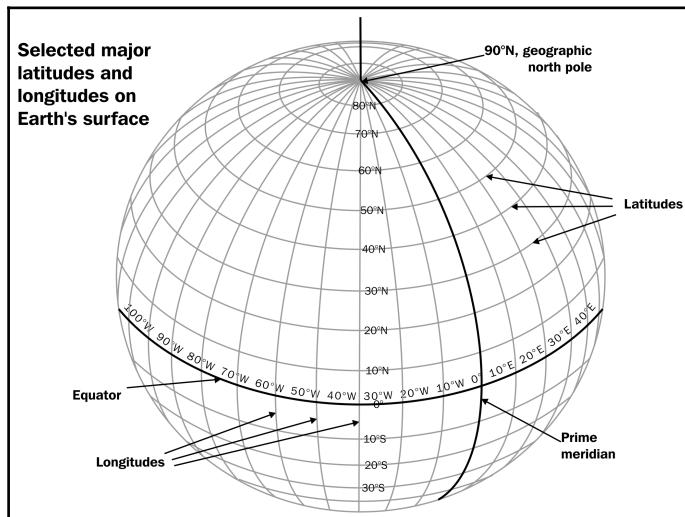
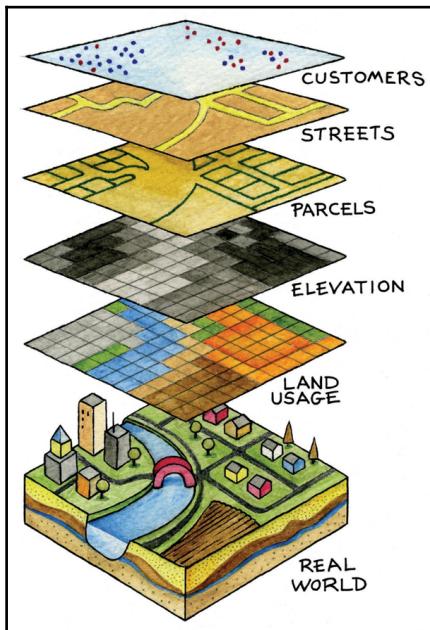


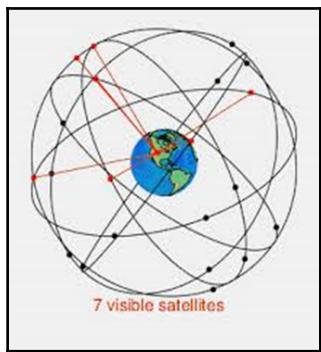
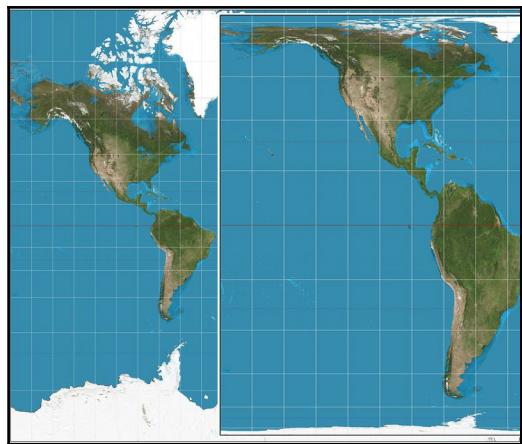


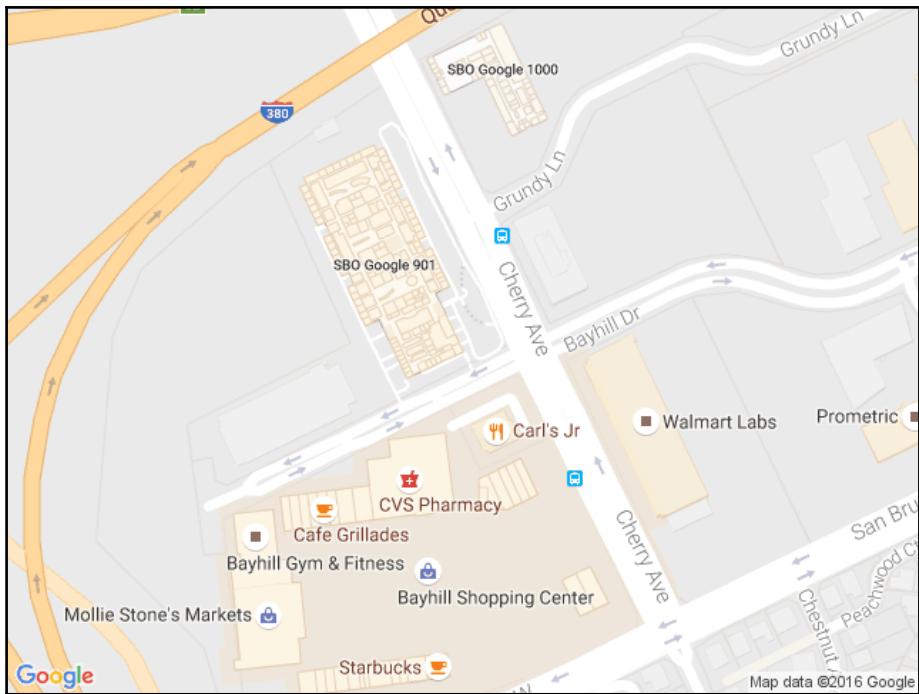


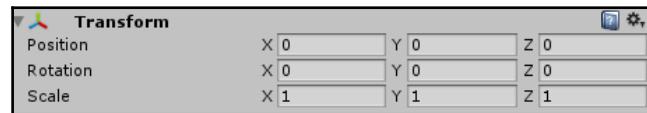
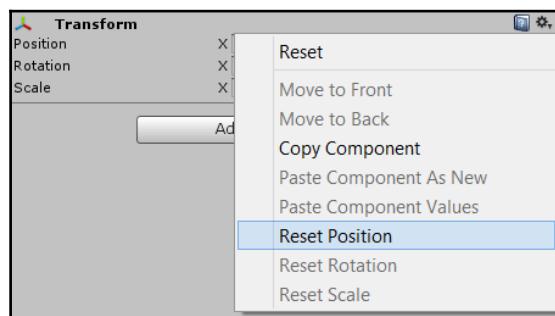
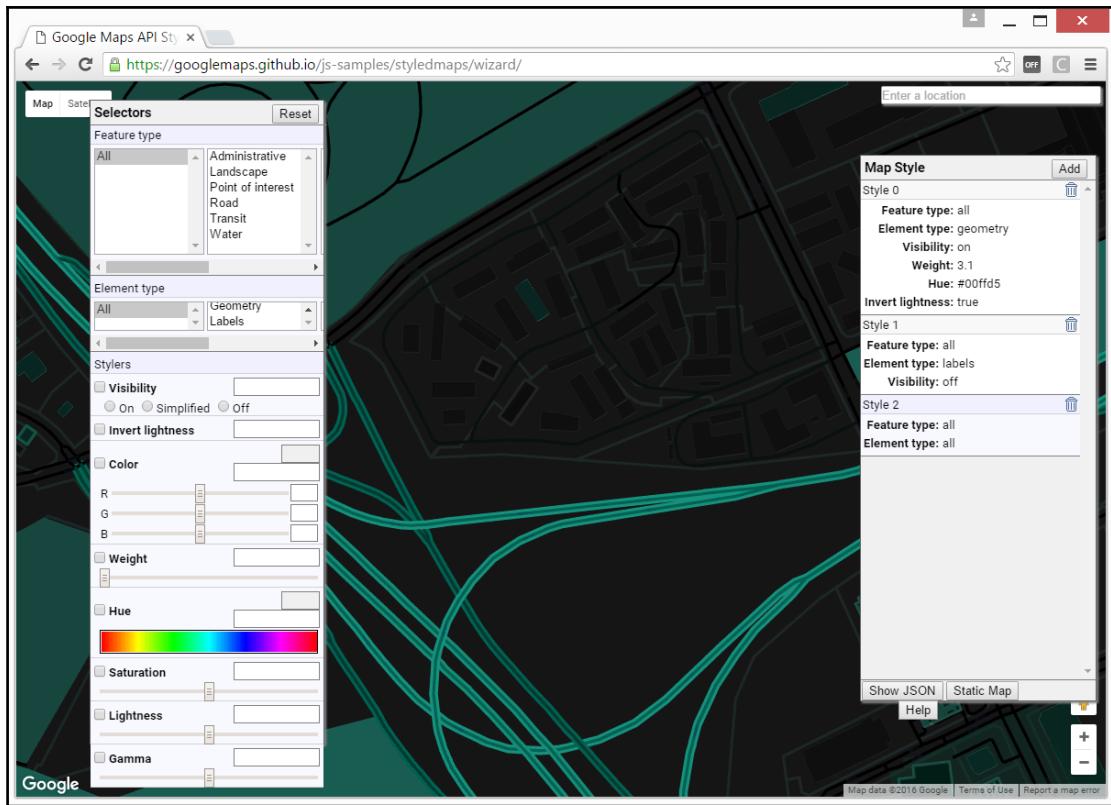


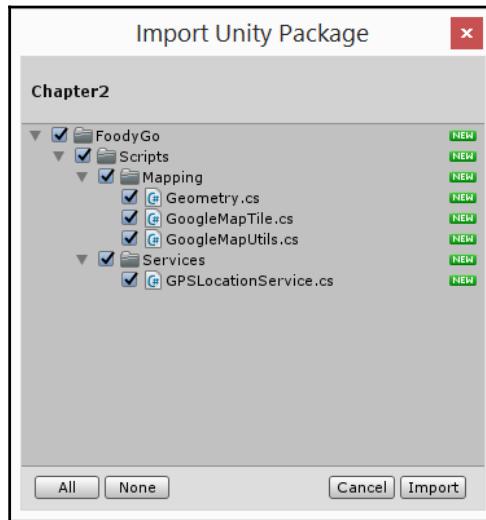
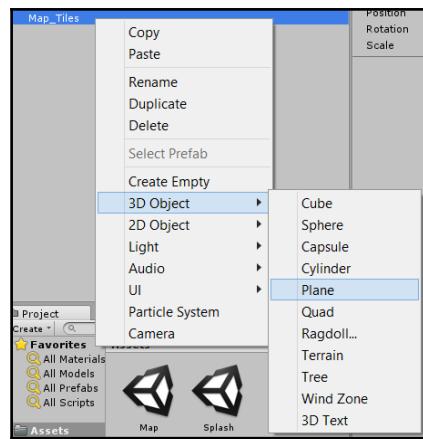
Chapter 2: Mapping the Player's Location

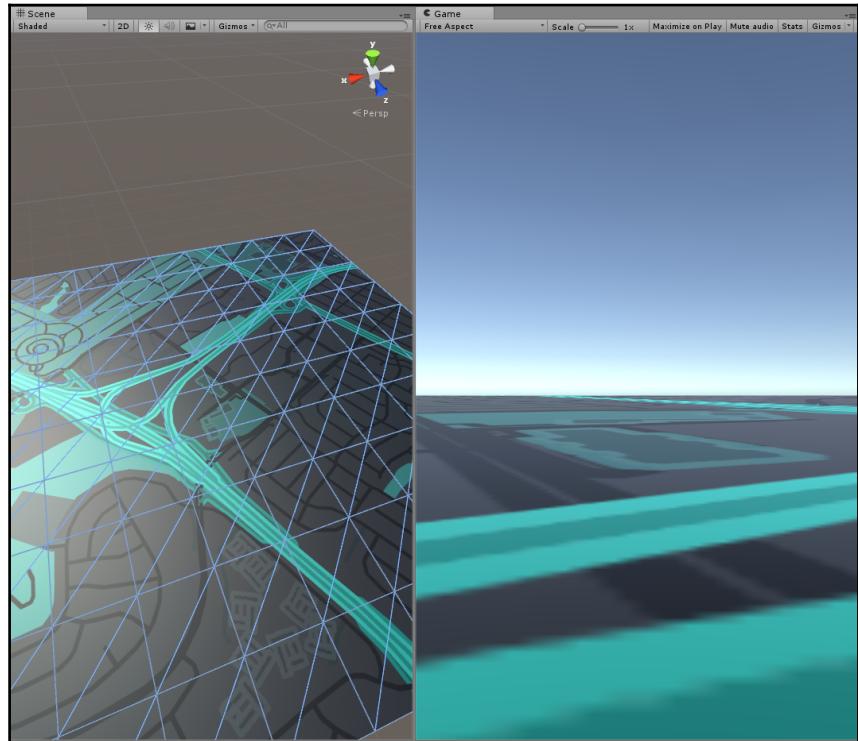
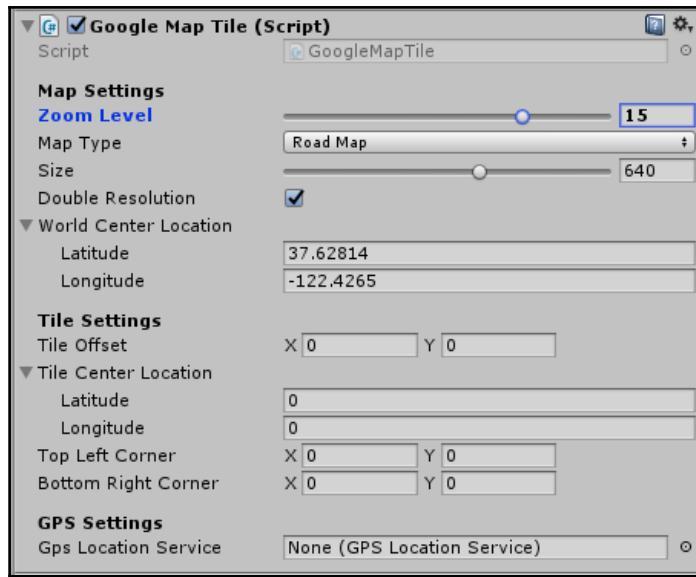


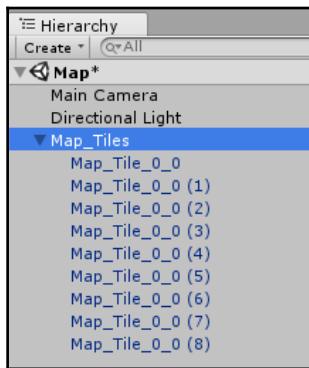
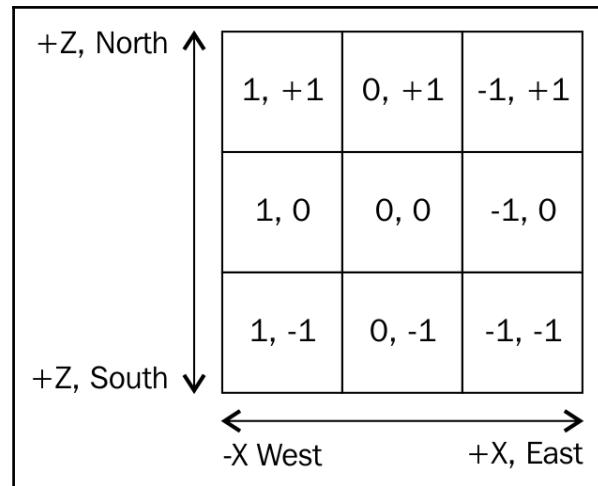


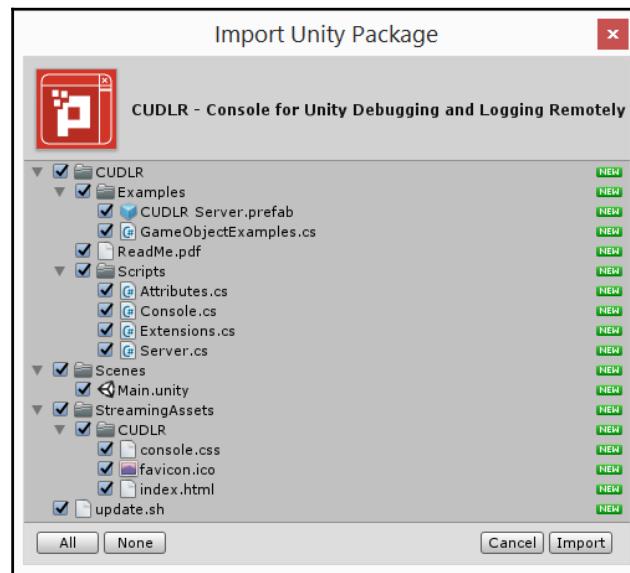
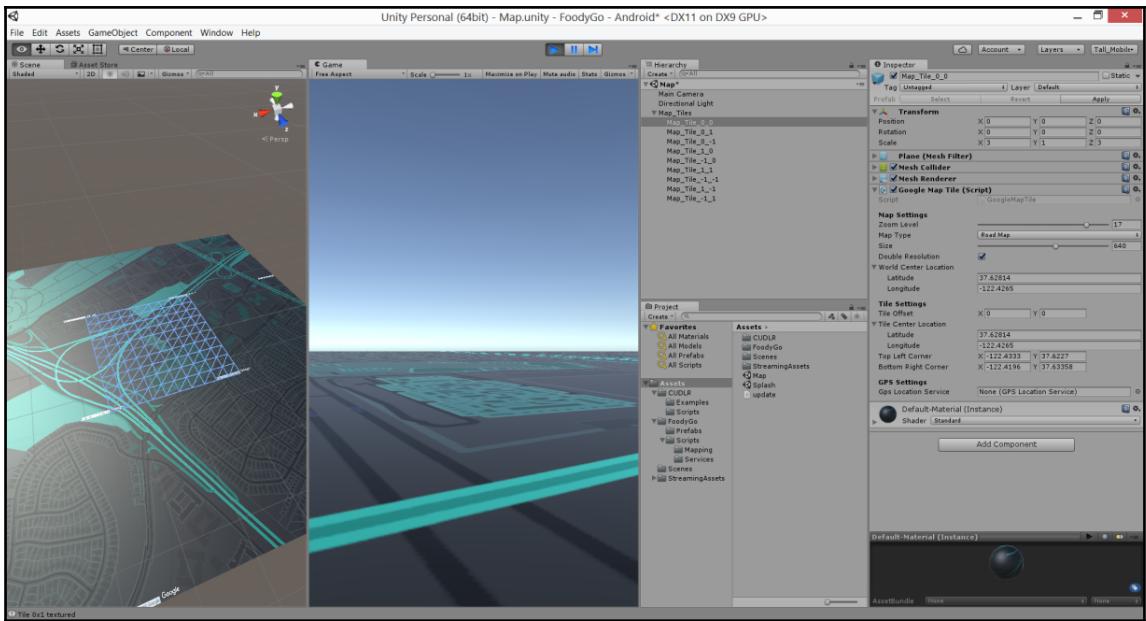


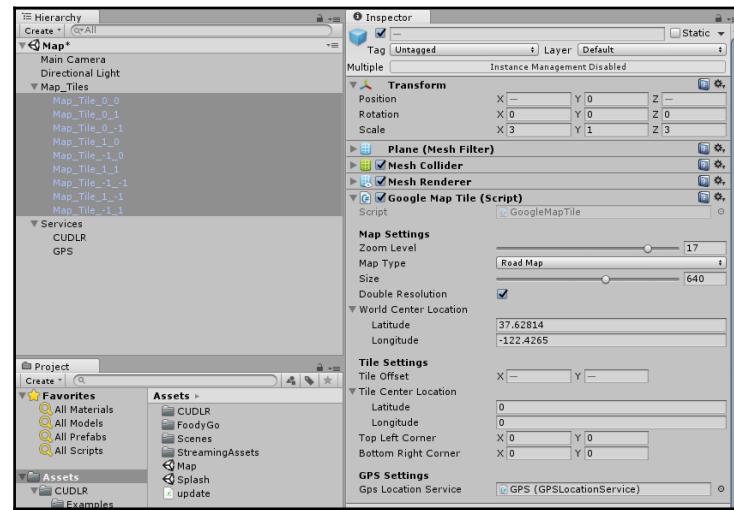




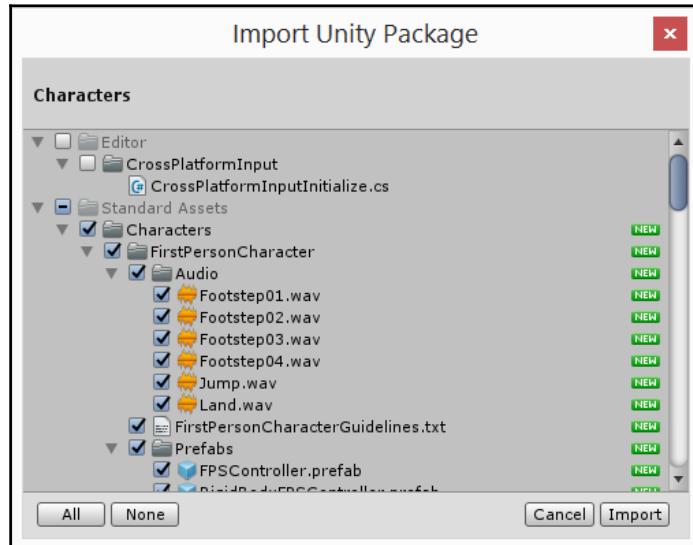
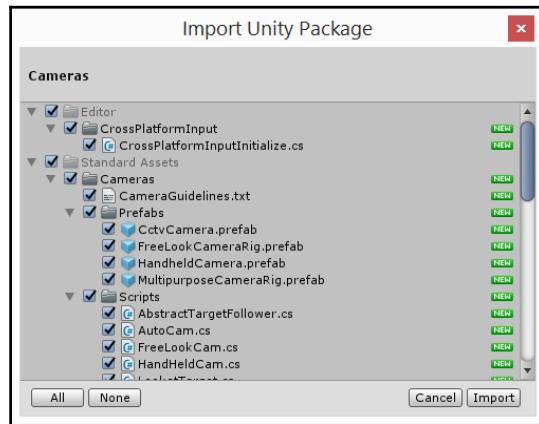


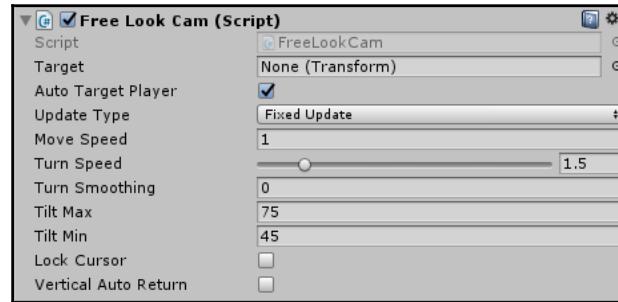
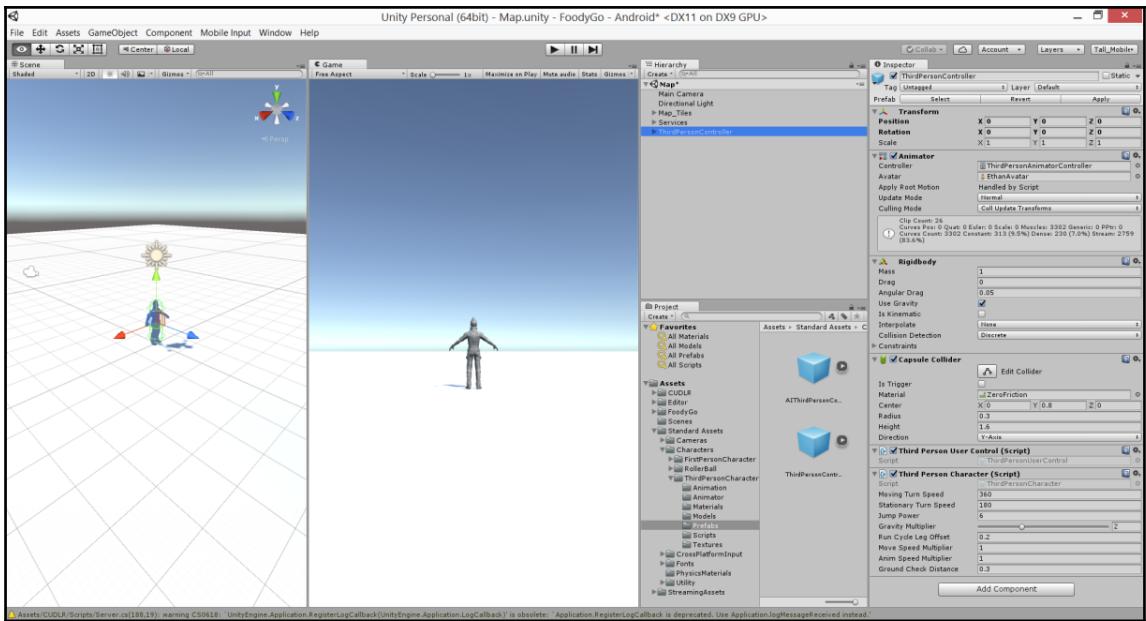


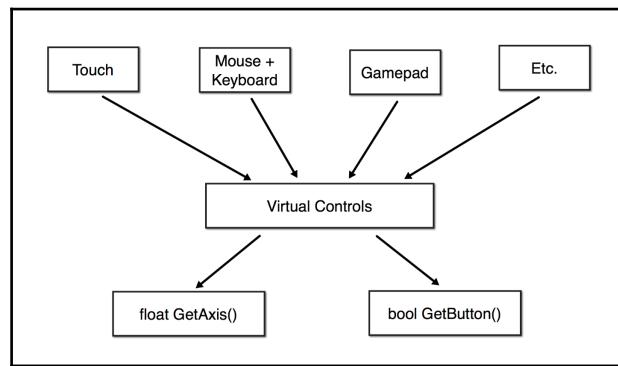
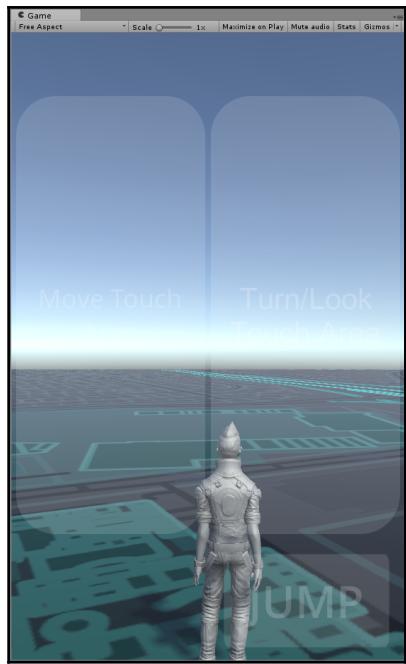


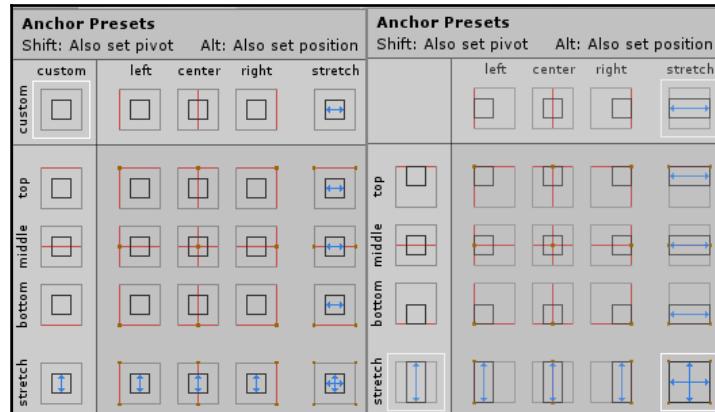
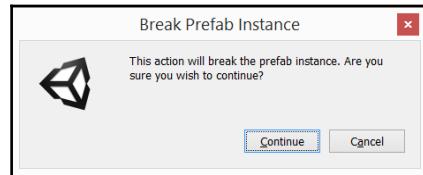
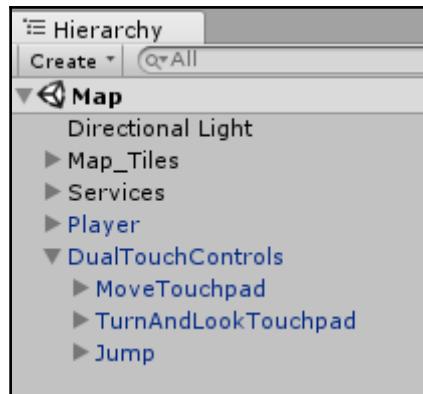


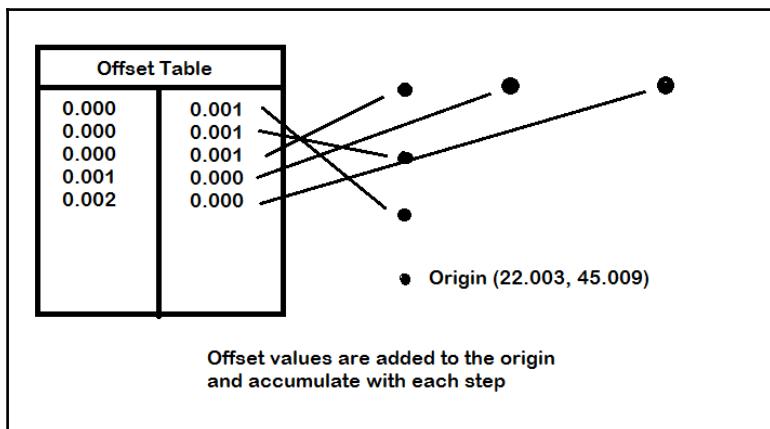
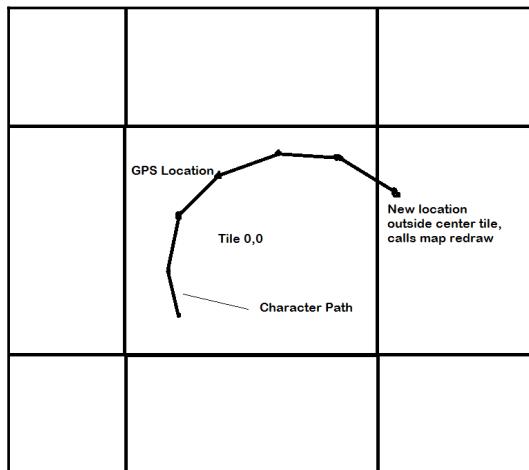
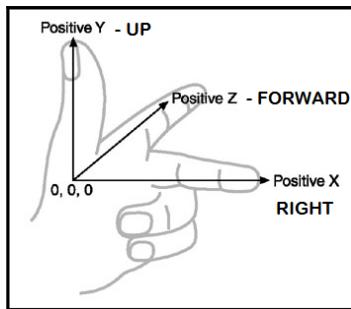
Chapter 3: Making the Avatar

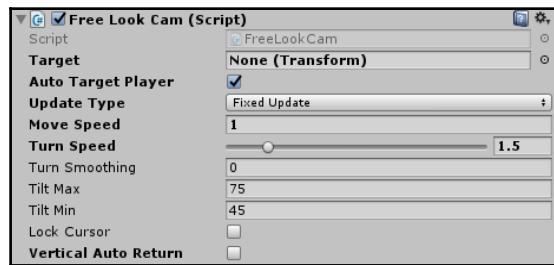
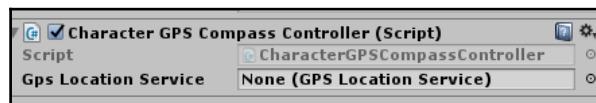
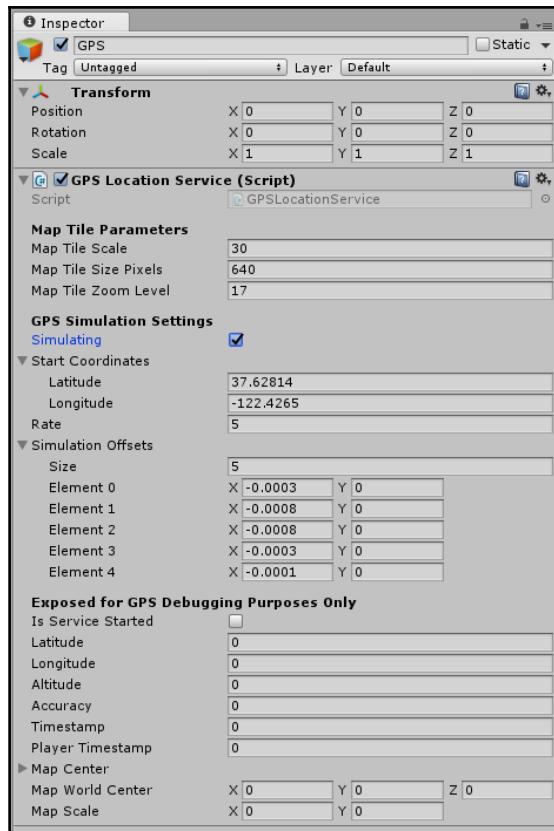


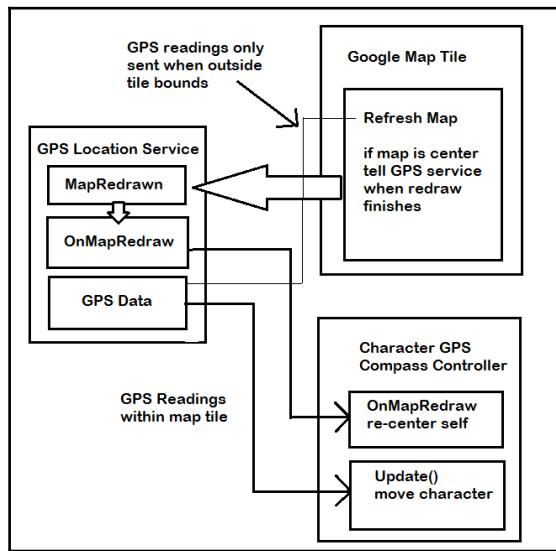
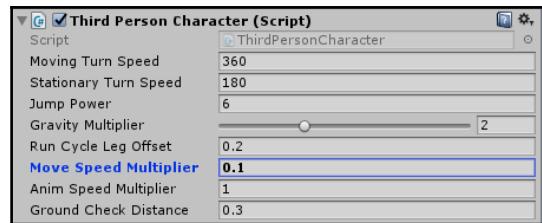














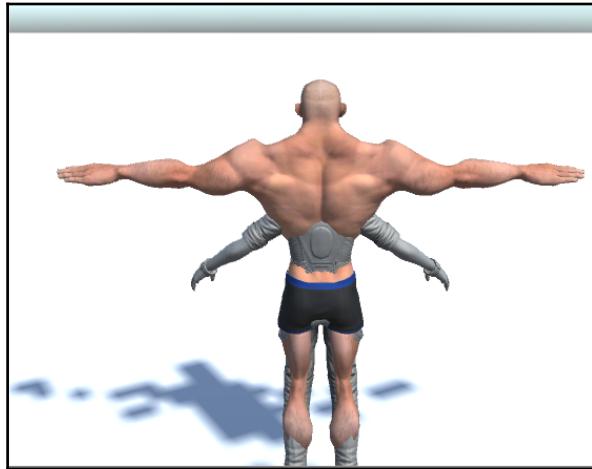
Max - iClone Character
3D Models/Characters/Humanoids/Humans
Reallusion
★★★★★ (127)
Free

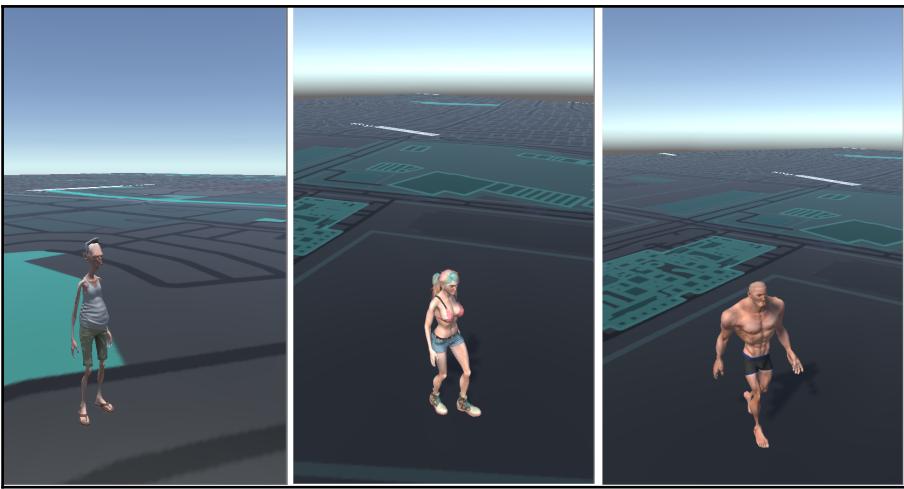


Izzy - iClone Character
3D Models/Characters/Humanoids/Humans
Reallusion
★★★★★ (139)
Free

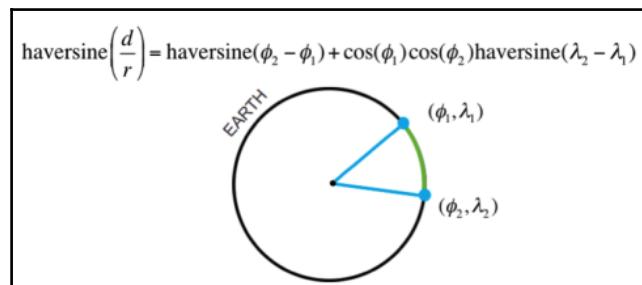
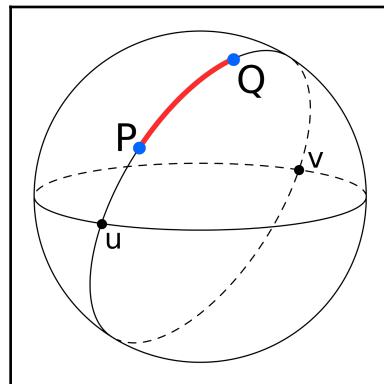
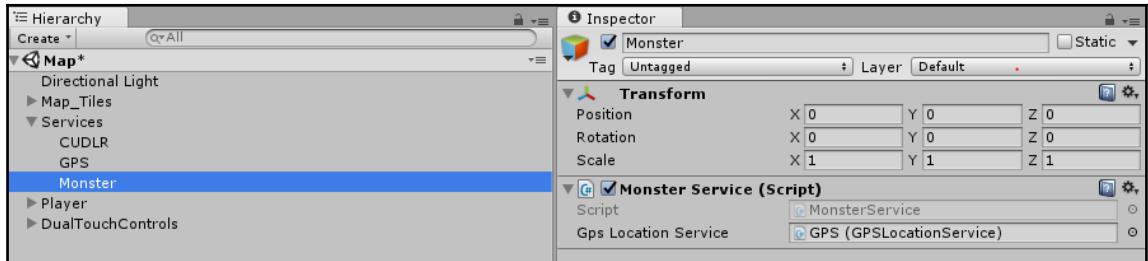


Winston - iClone Character
3D Models/Characters/Humanoids
Reallusion
★★★★★ (125)
Free

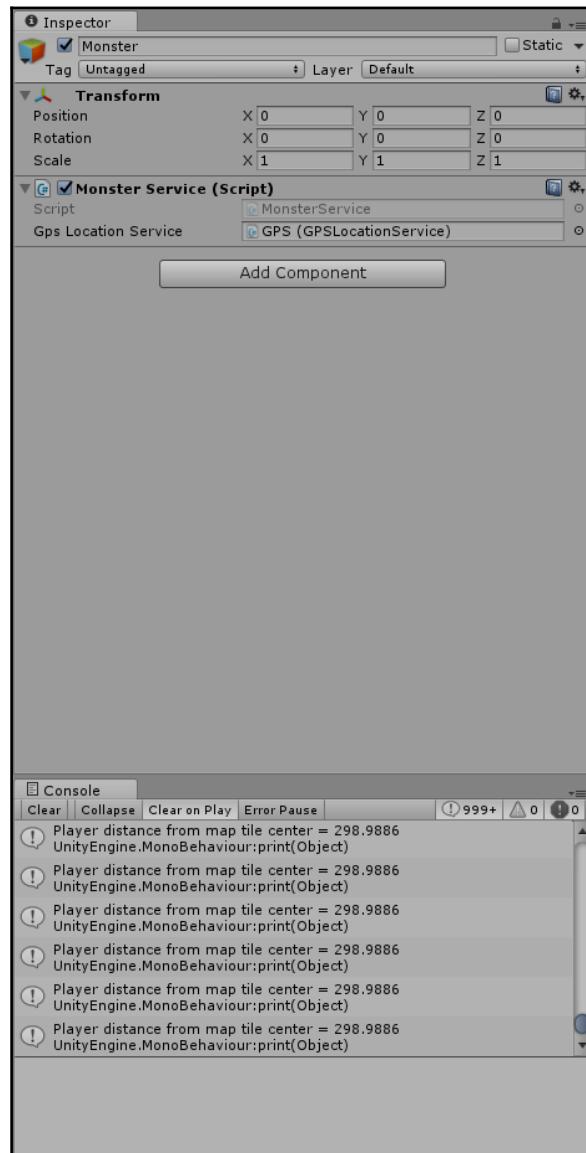


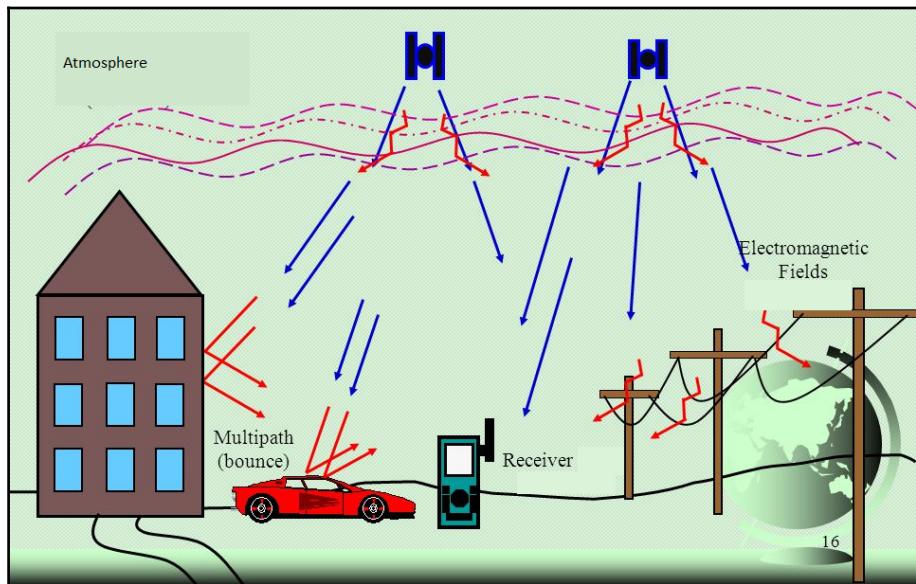
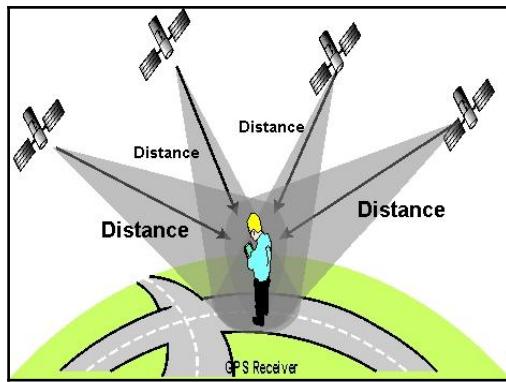


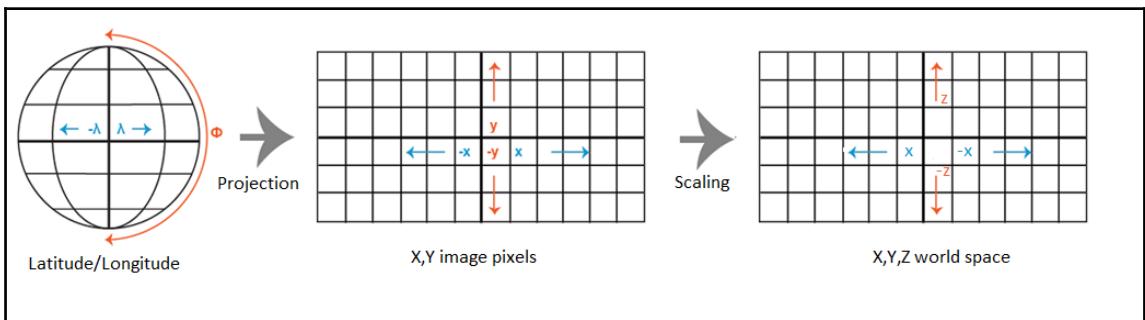
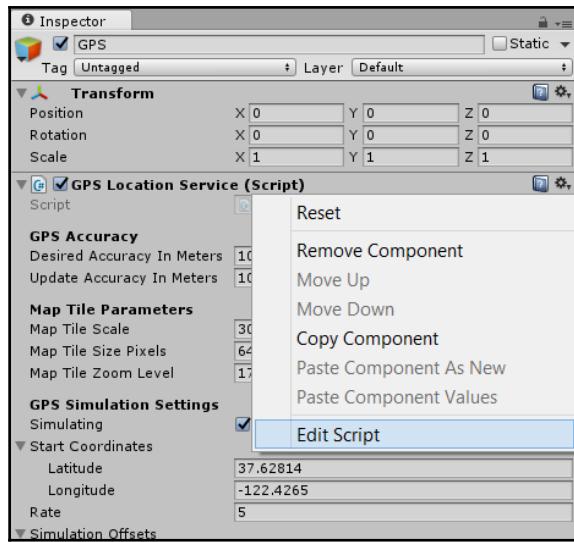
Chapter 4: Spawning the Catch

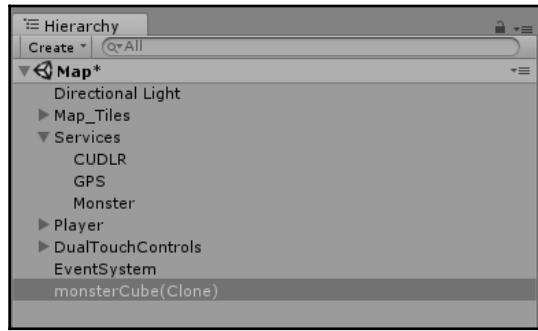
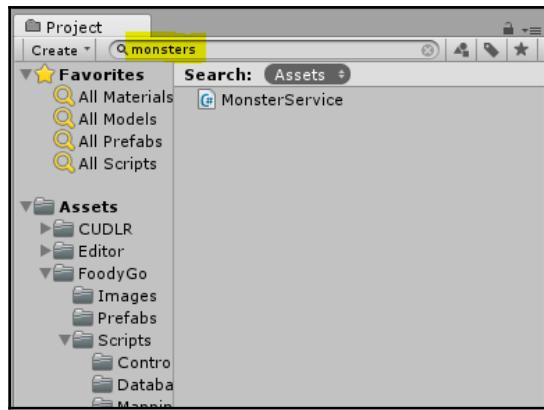


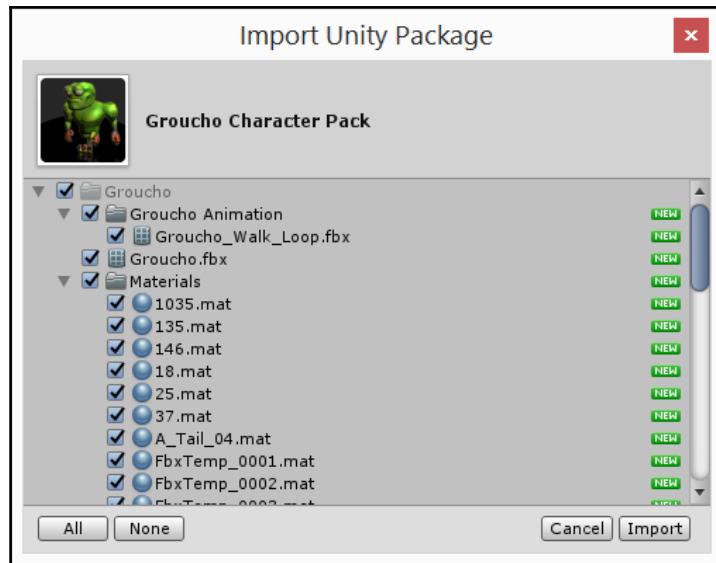
$$d = 2r \arcsin \left(\sqrt{\sin^2 \left(\frac{\phi_2 - \phi_1}{2} \right) + \cos(\phi_1) \cos(\phi_2) \sin^2 \left(\frac{\lambda_2 - \lambda_1}{2} \right)} \right)$$

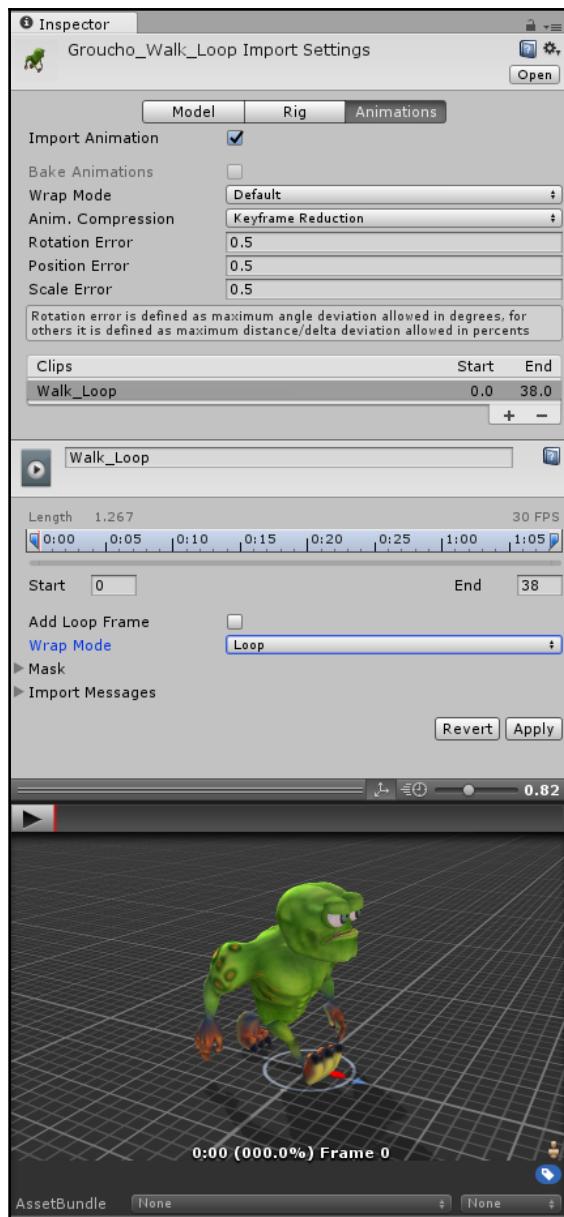














Inspector

Monster Static
Tag Untagged Layer Default

Transform

Position	X 0	Y 0	Z 0
Rotation	X 0	Y 0	Z 0
Scale	X 1	Y 1	Z 1

Monster Service (Script)

Script: MonsterService
Gps Location Service: GPS (GPSLocationService)
Monster Prefab: Monster

Monster Spawn Parameters

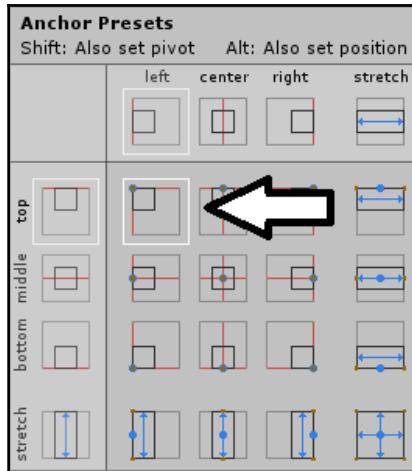
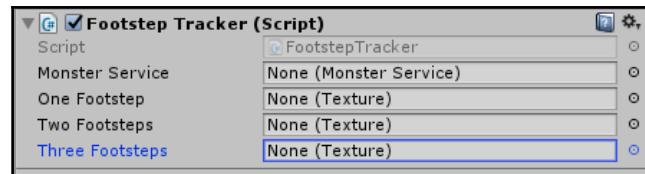
Monster Spawn Rate	0.8
Latitude Spawn Offset	0.001
Longitude Spawn Offset	0.001

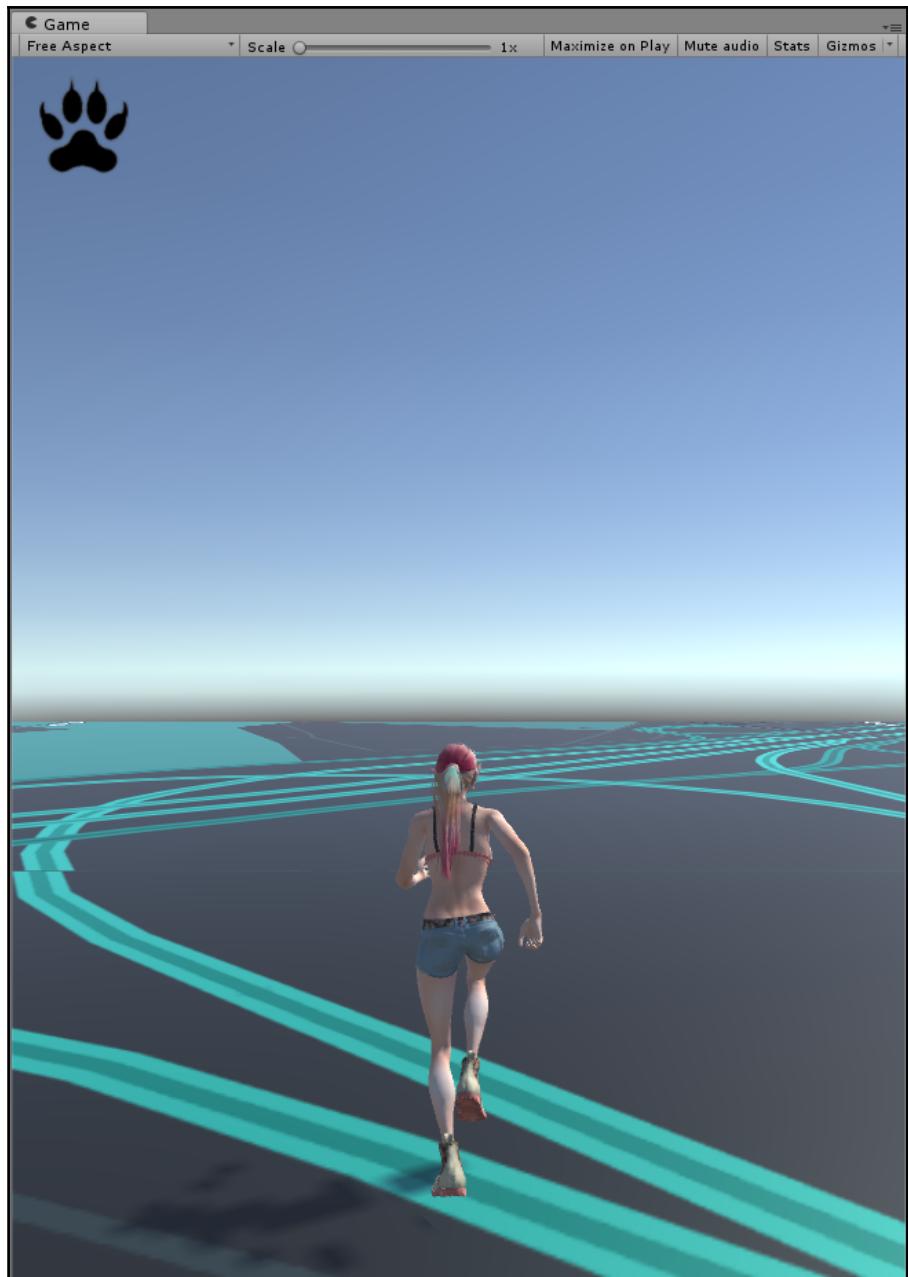
Monster Visibility

Monster Hear Distance	200
Monster See Distance	100
Monster Lifetime Seconds	3000

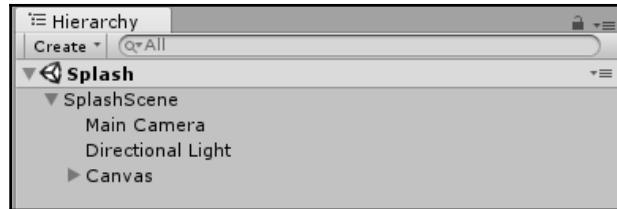
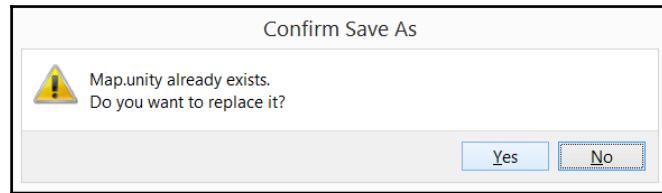
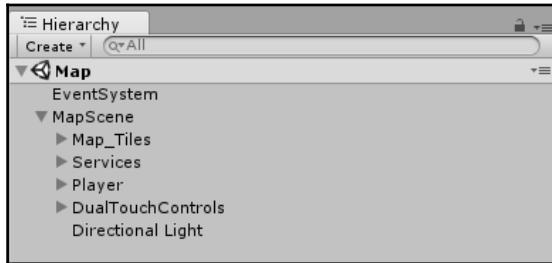
Monster Foot Step Range

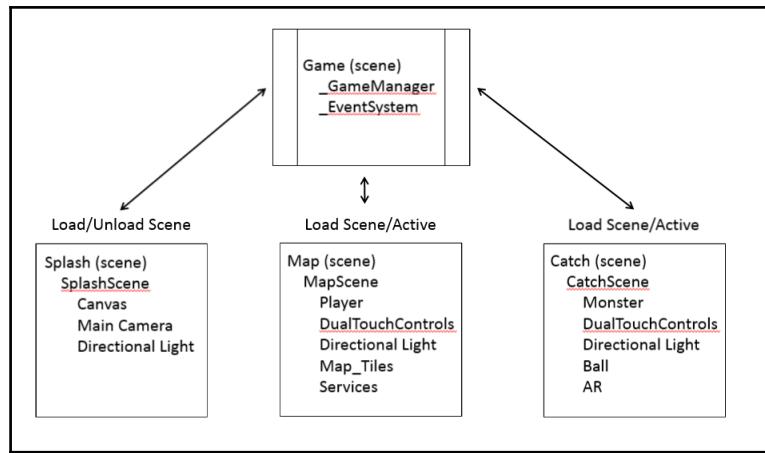
One Step Range	125
Two Step Range	150
Three Step Range	200

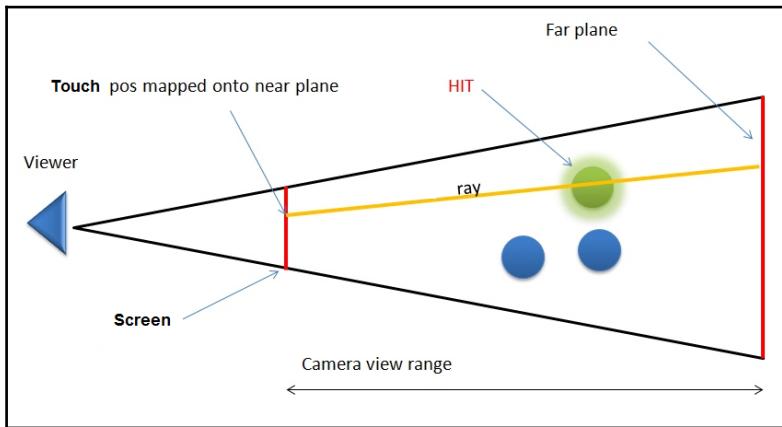
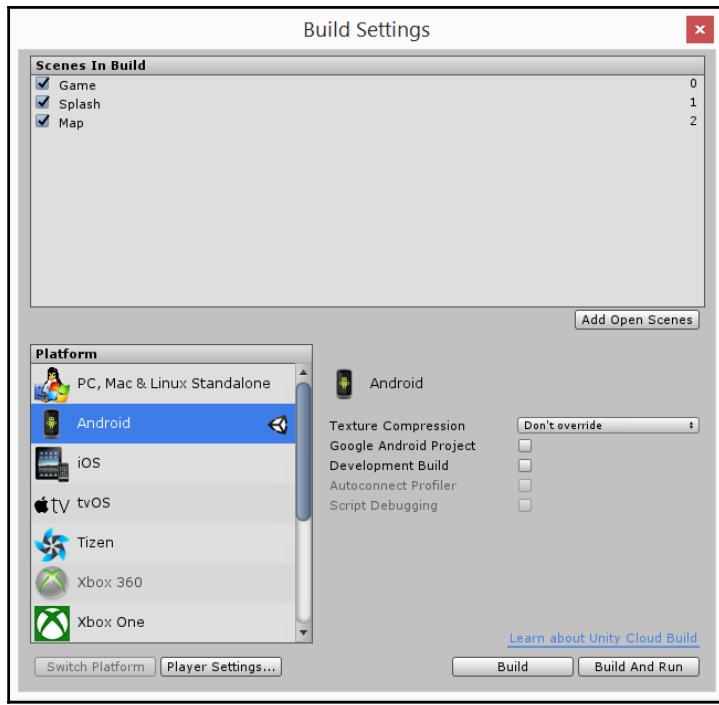


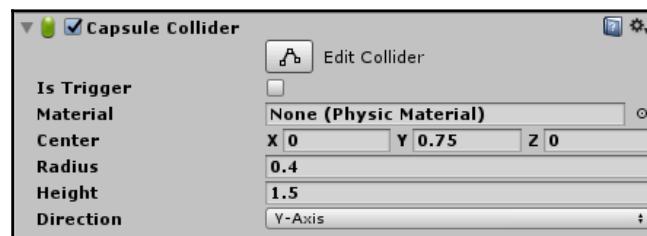
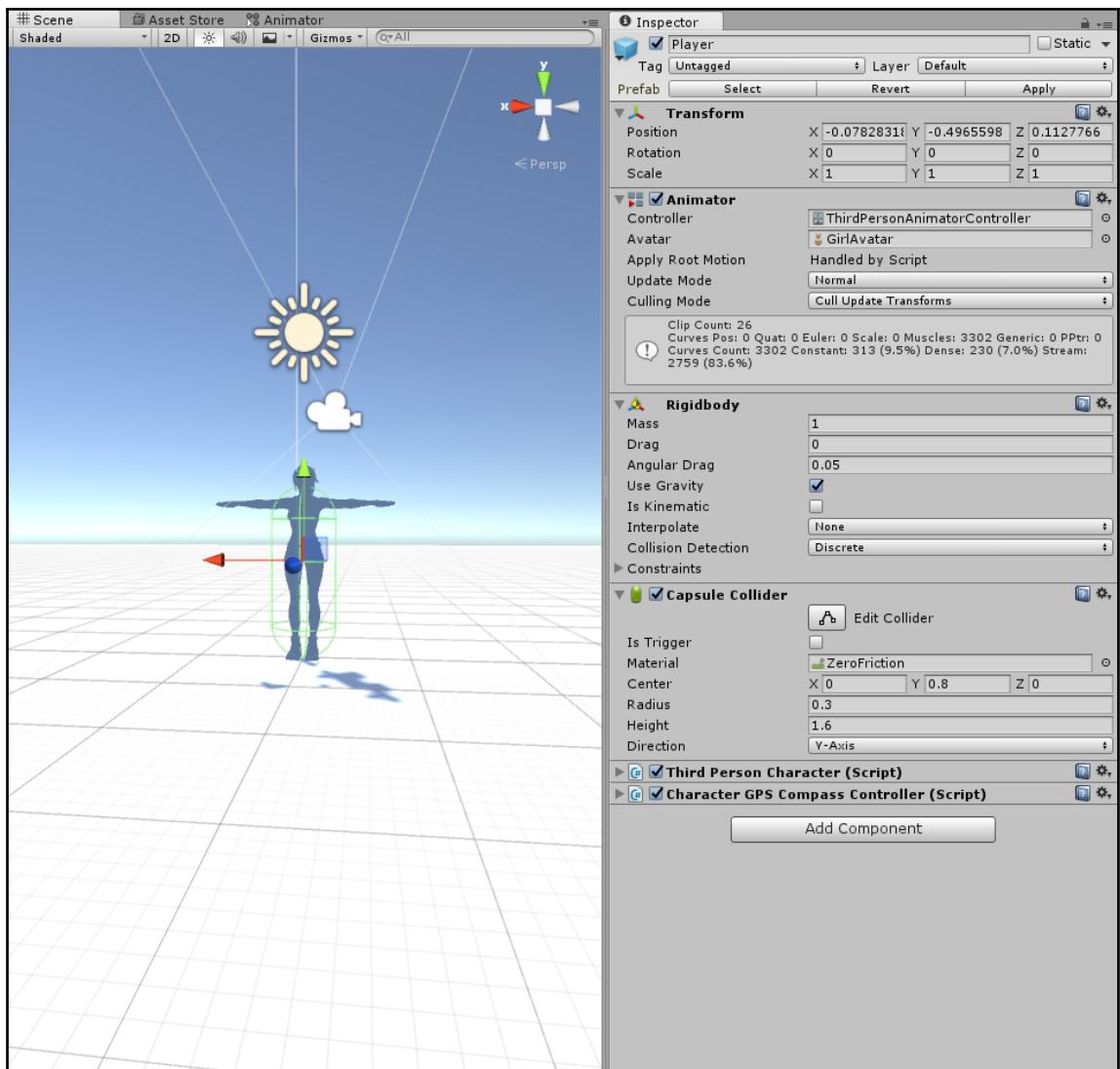


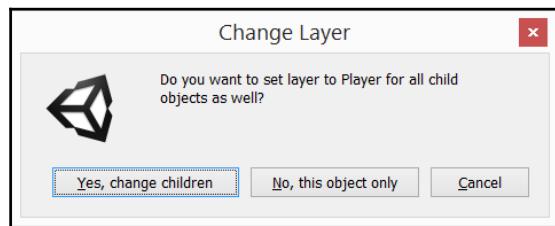
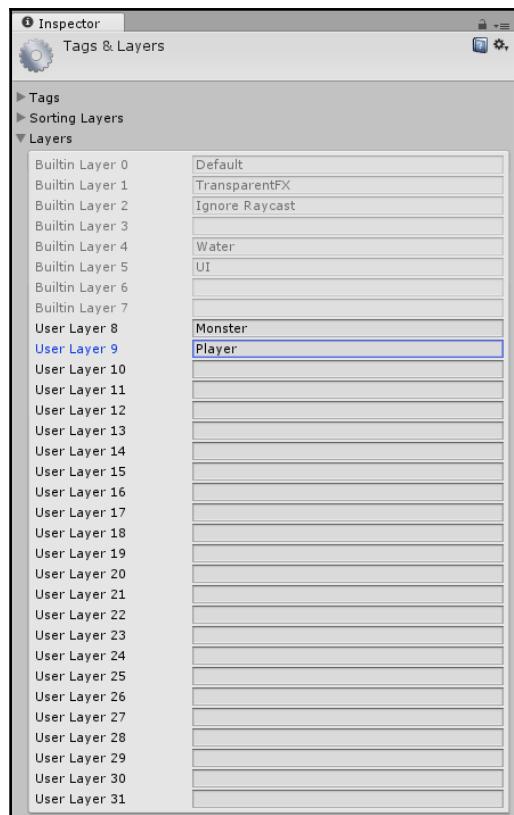
Chapter 5: Catching the Prey in AR

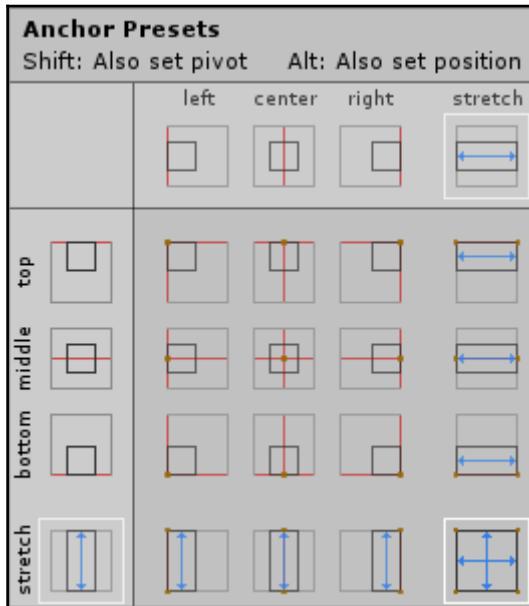
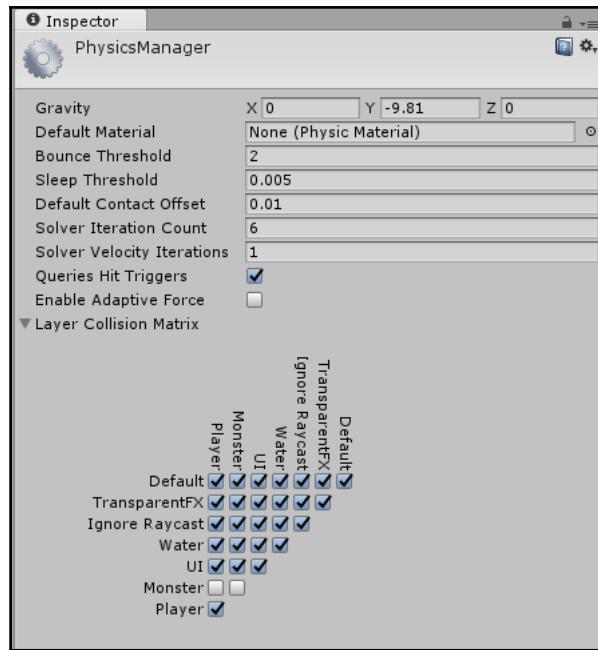


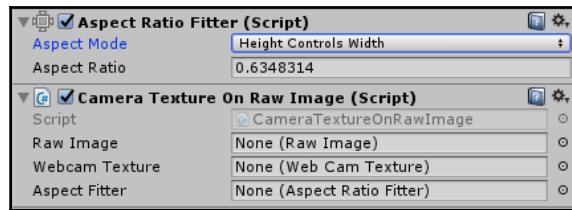
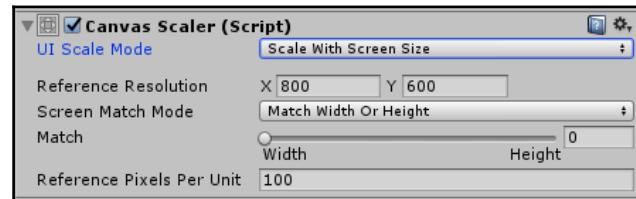
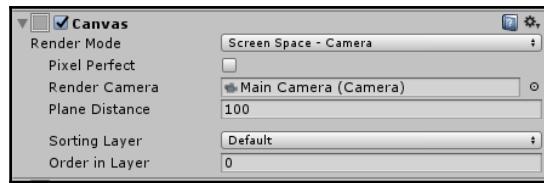




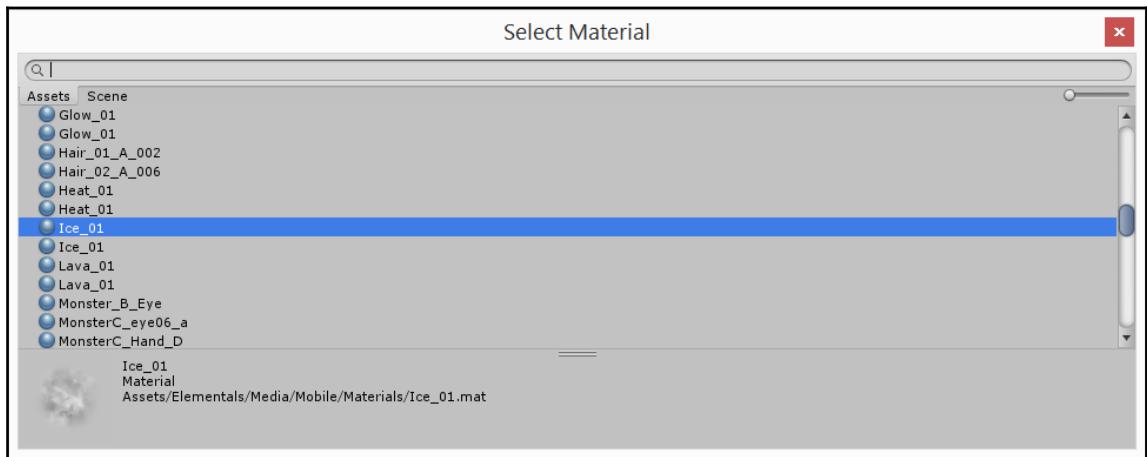
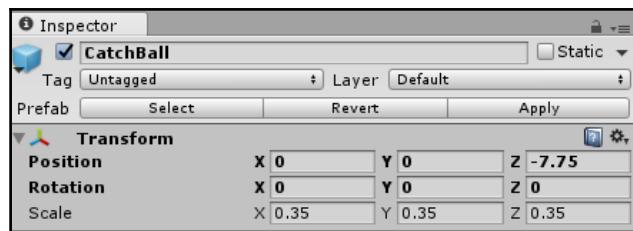


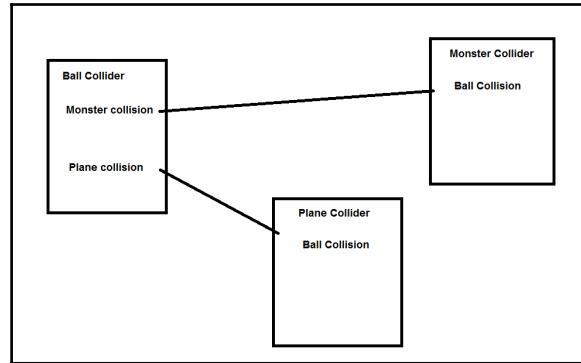
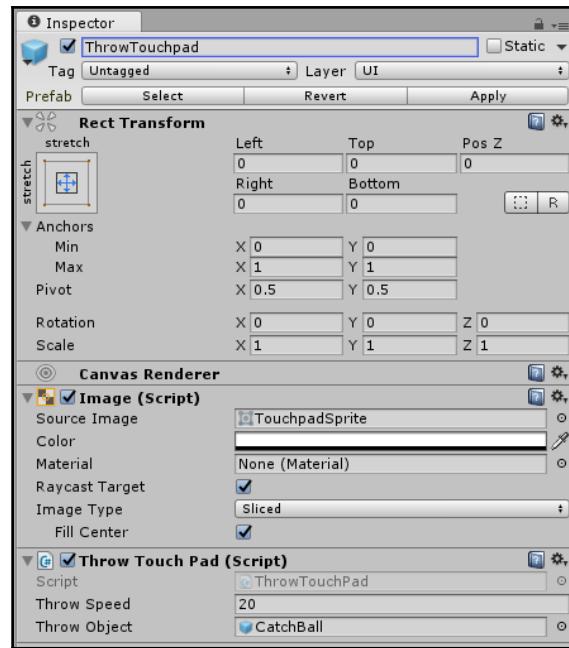


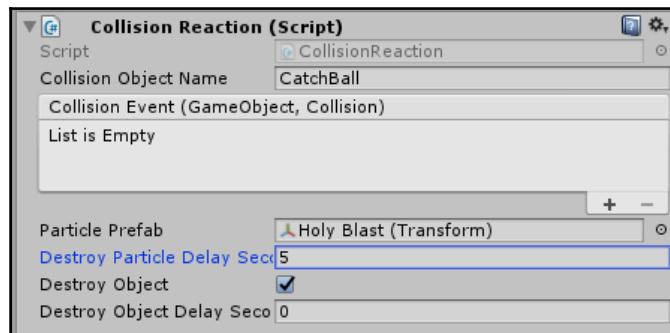
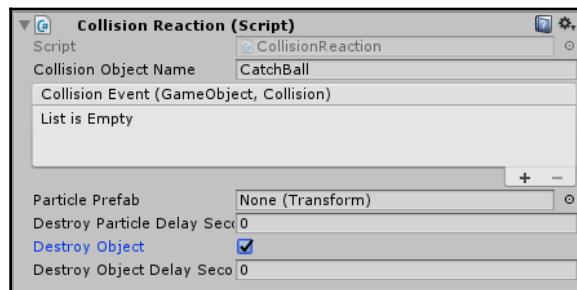
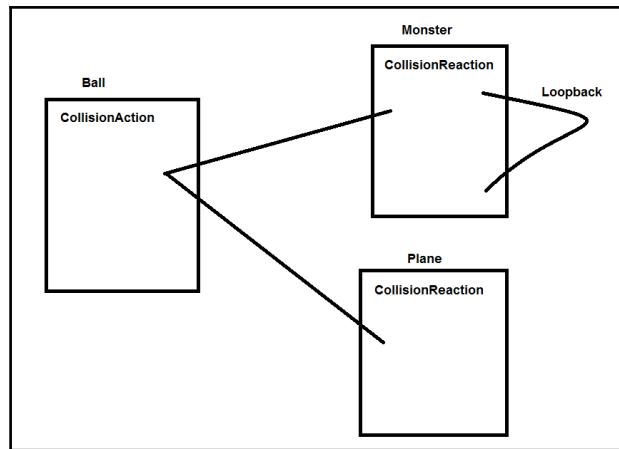


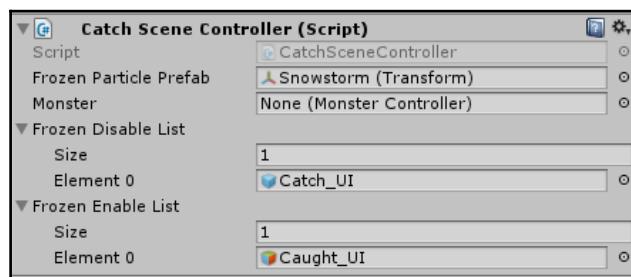
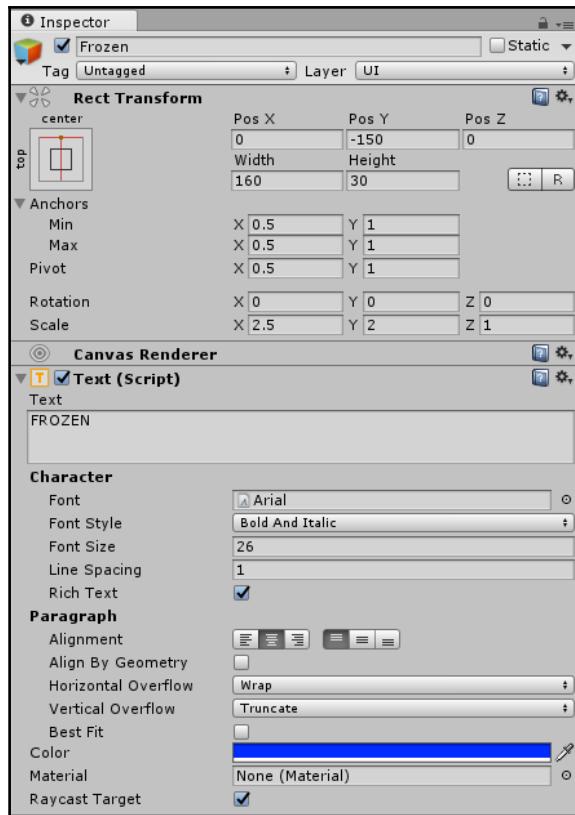






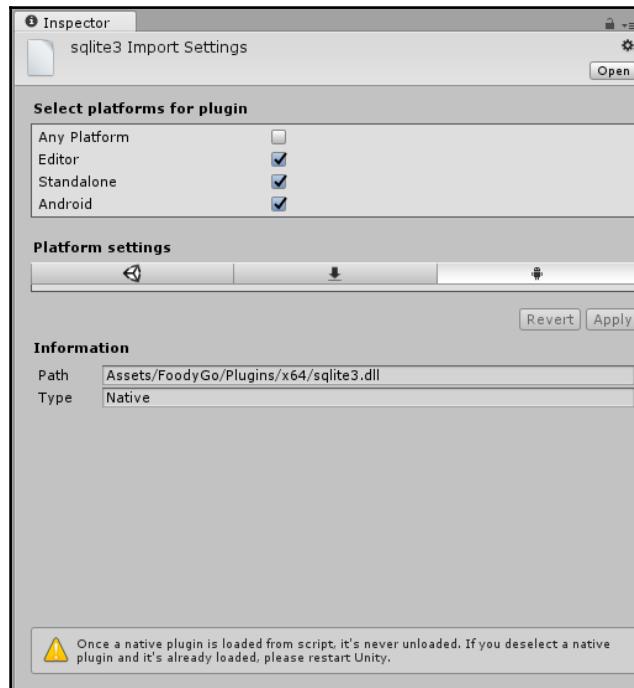
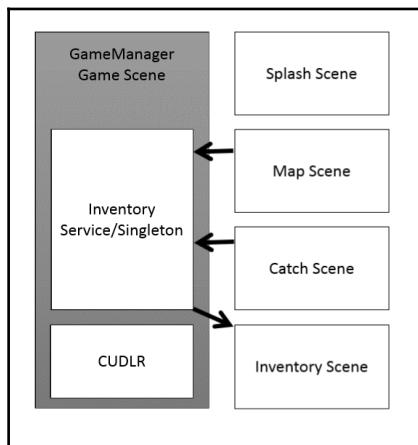


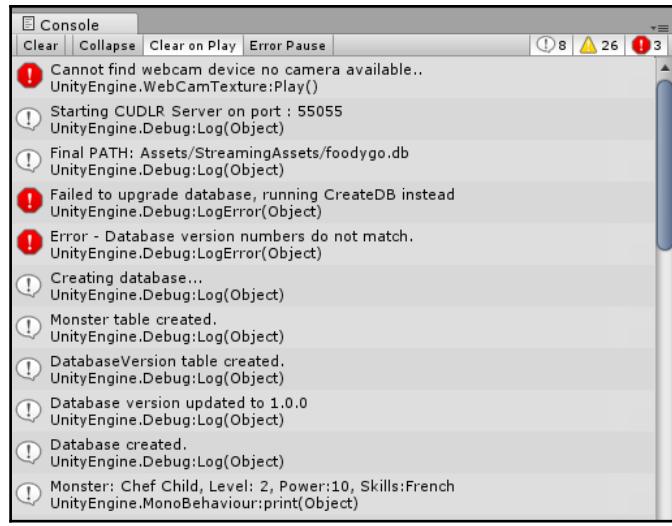
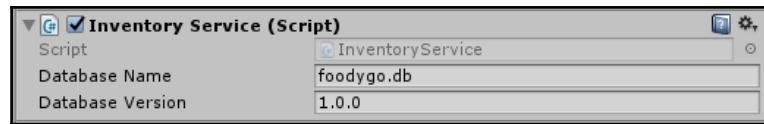




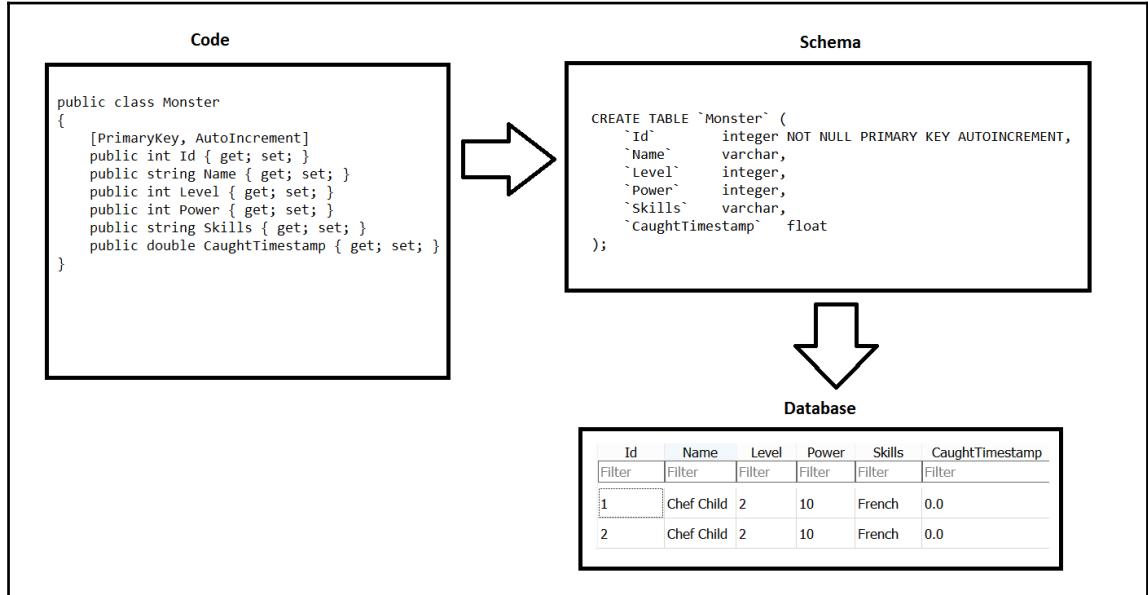


Chapter 6: Storing the Catch

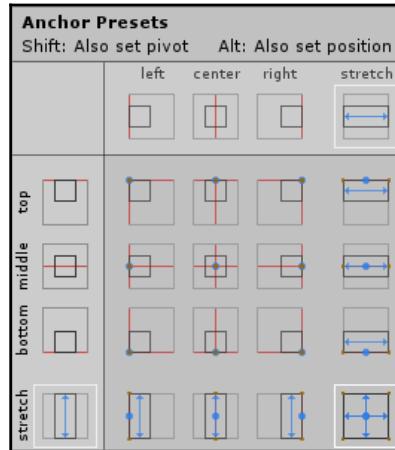
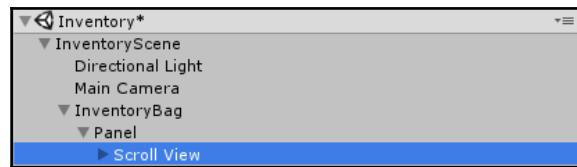


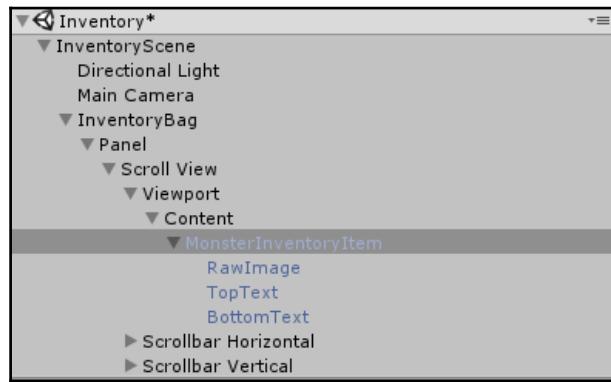
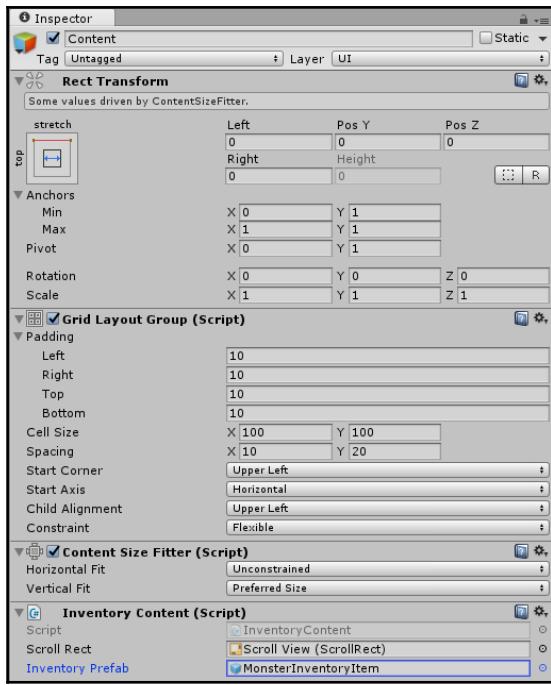


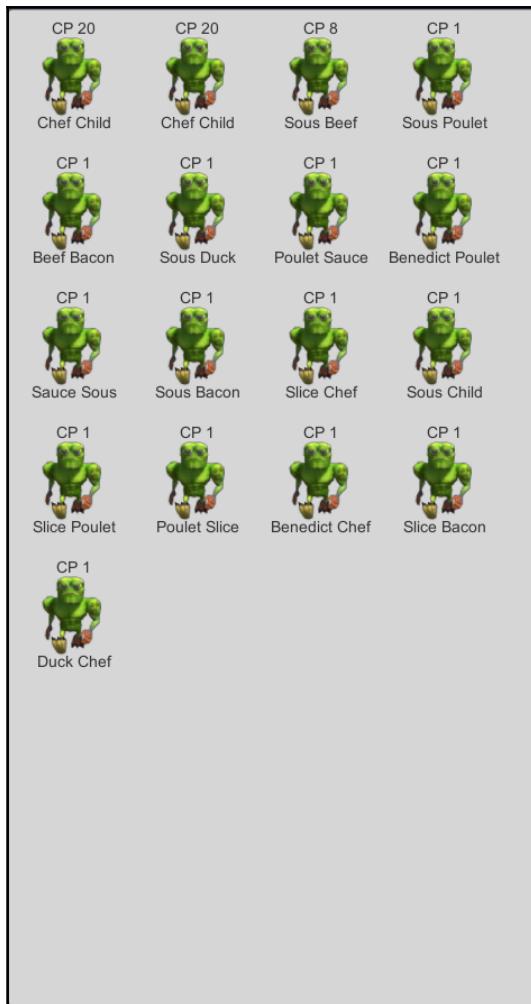
```
Database not in Persistent path
Database written
Final PATH: /storage/emulated/0/Android/data/com.packt.FoodyGO/files/foodygo.db
Creating database...
Monster table created.
DatabaseVersion table created.
Database version updated to 1.0.0
Database created.
Monster: Chef Child, Level: 2, Power:10, Skills:French
```

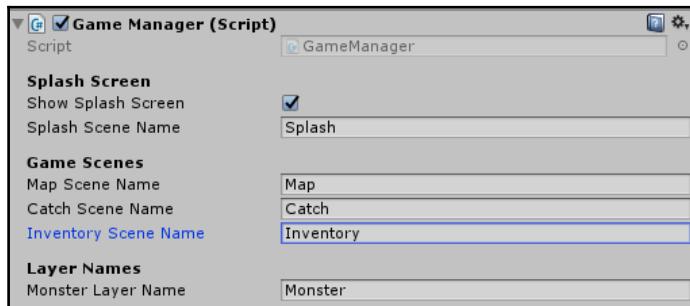
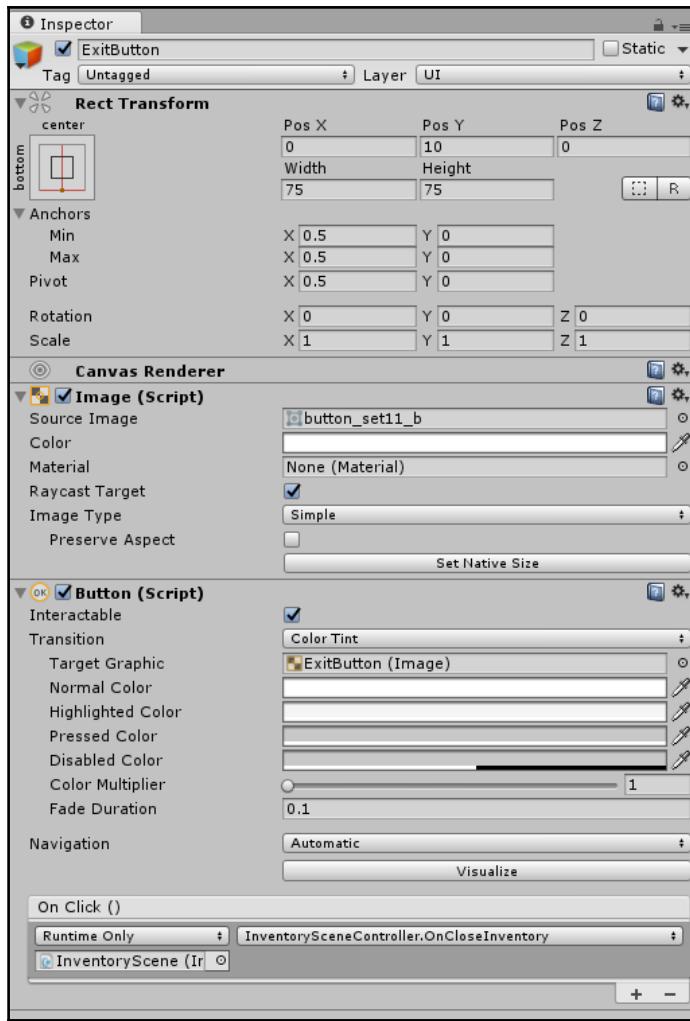


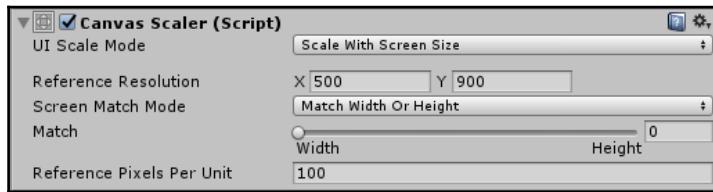
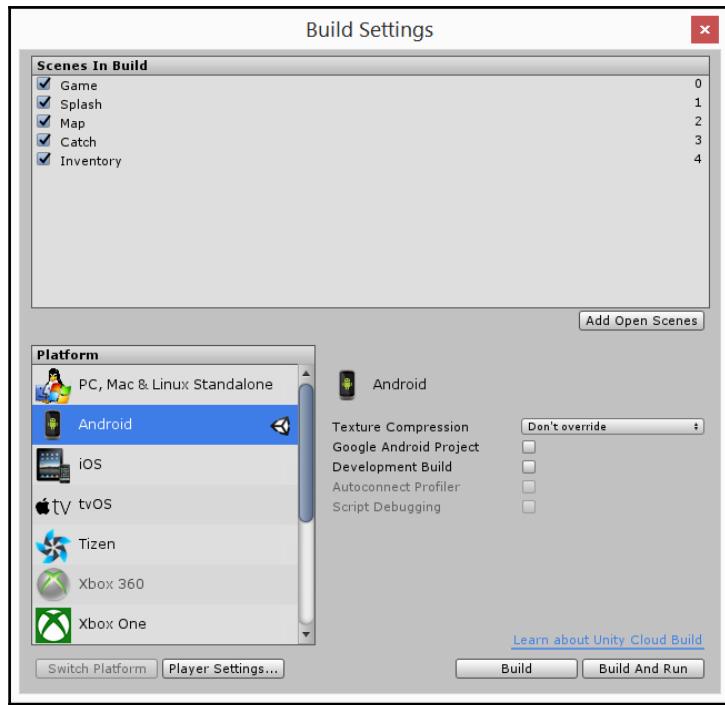
```
Starting CUDLR Server on port : 55055
UnityEngine.Debug:Log(Object)
Monster: Chef Beef, Level: 9, Power:6, Skills:Mexican,Indian
UnityEngine.MonoBehaviour:print(Object)
Final PATH: Assets/StreamingAssets/foodygo.db
UnityEngine.Debug:Log(Object)
```



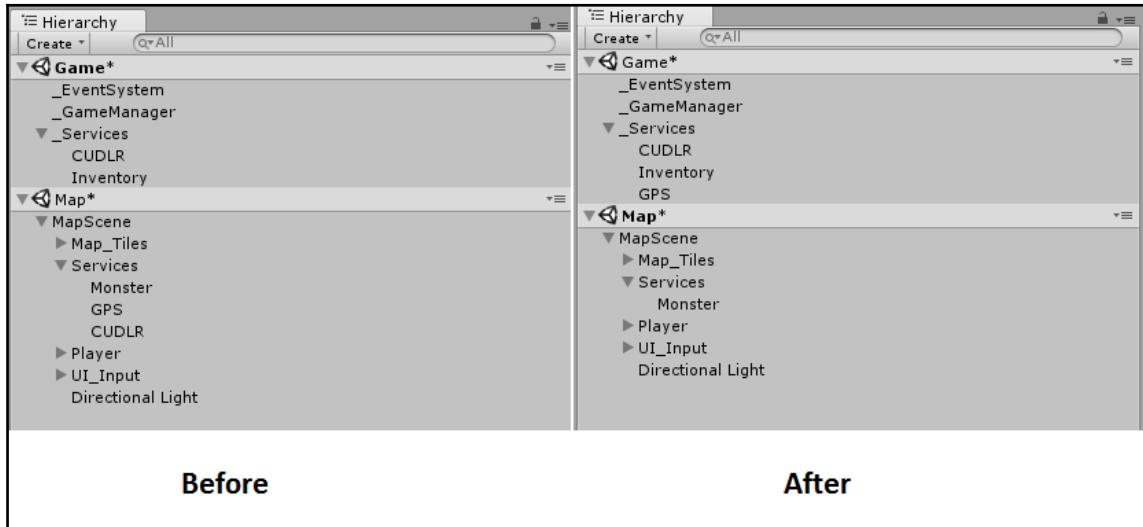








Chapter 7: Creating the AR World

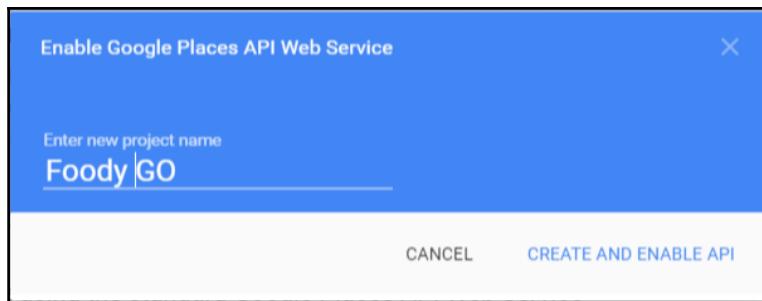


Get an API key

If you are using the standard Google Places API Web Service

To get started using the Google Places API Web Service, click the button below, which guides you through the process of activating the Google Places API Web Service and getting an API key.

[GET A KEY](#)



YOUR API KEY

AlzaSyDfv8TnRbff5KYQGdC4oxEtz1TtELohaE



type	food	x
location	-33.8670,151.1957	x
radius	500	x
key	AlzaSyDfv8TnRbff5KYQGdC4oxEtz1TtELohaE	x

[+ Add another parameter](#)

For GET, HEAD and OPTIONS requests, parameters will be added to the querystring in the requested URL.

```

public class Location
{
    public double lat { get; set; }
    public double lng { get; set; }
}

public class Northeast
{
    public double lat { get; set; }
    public double lng { get; set; }
}

public class Southwest
{
    public double lat { get; set; }
    public double lng { get; set; }
}

public class Viewport
{
    public Northeast northeast { get; set; }
    public Southwest southwest { get; set; }
}

public class Geometry
{
    public Location location { get; set; }
    public Viewport viewport { get; set; }
}

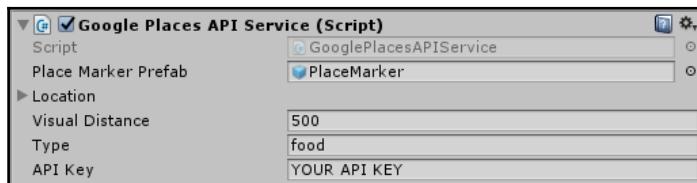
public class OpeningHours
{
    public bool open_now { get; set; }
    public List<object> weekday_text { get; set; }
}

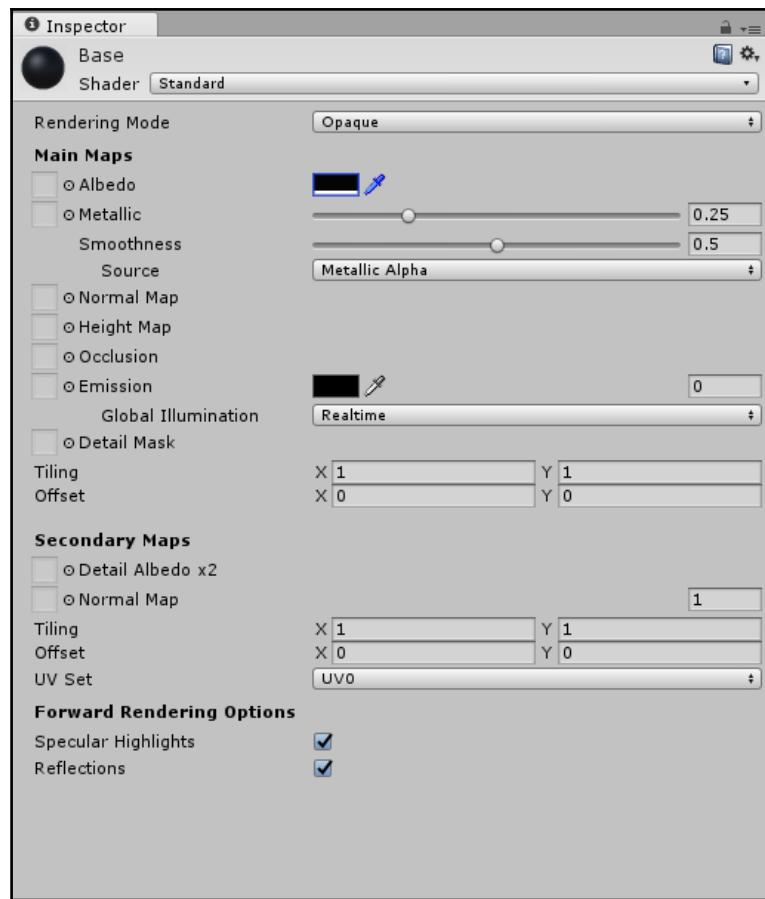
public class Photo
{
    public int height { get; set; }
    public List<string> html_attributions { get; set; }
    public string photo_reference { get; set; }
    public int width { get; set; }
}

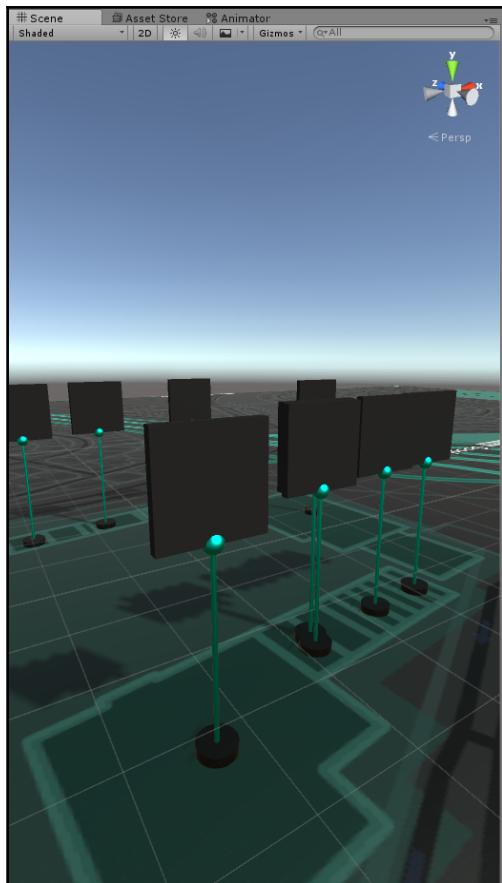
public class Result
{
    public Geometry geometry { get; set; }
    public string icon { get; set; }
    public string id { get; set; }
    public string name { get; set; }
    public OpeningHours opening_hours { get; set; }
    public List<Photo> photos { get; set; }
    public string place_id { get; set; }
    public int price_level { get; set; }
    public double rating { get; set; }
    public string reference { get; set; }
    public string scope { get; set; }
    public List<string> types { get; set; }
    public string vicinity { get; set; }
}

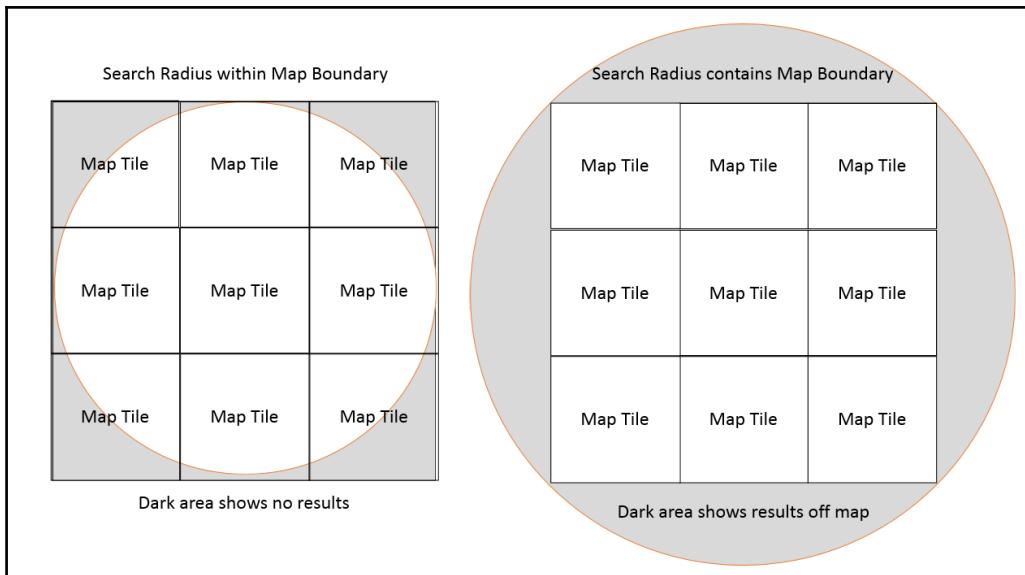
public class RootObject
{
    public List<object> html_attributions { get; set; }
    public string next_page_token { get; set; }
    public List<Result> results { get; set; }
    public string status { get; set; }
}

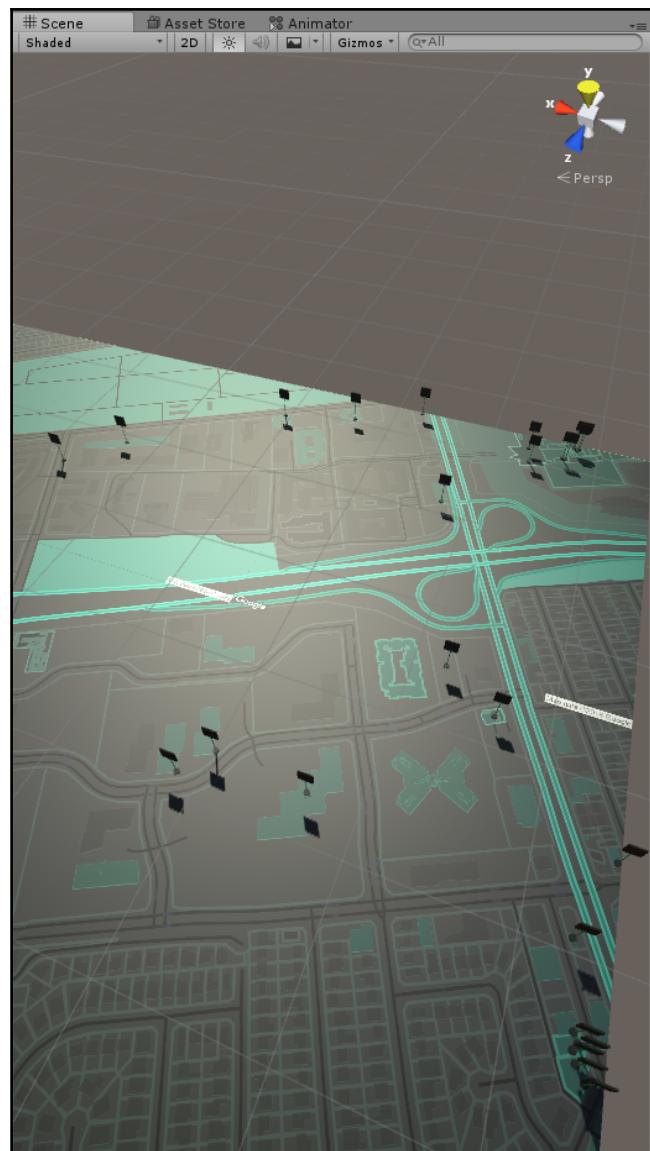
```



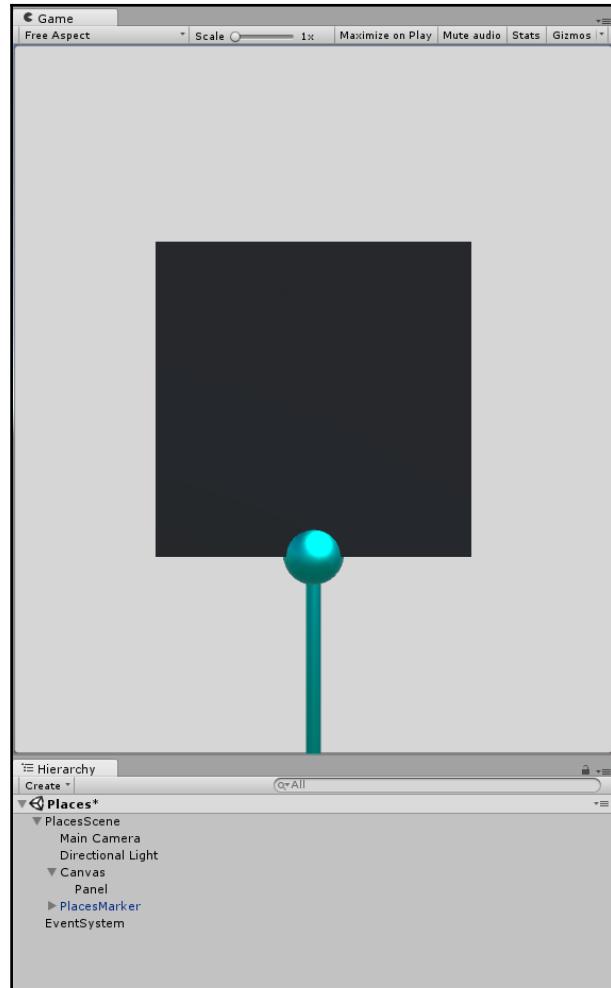


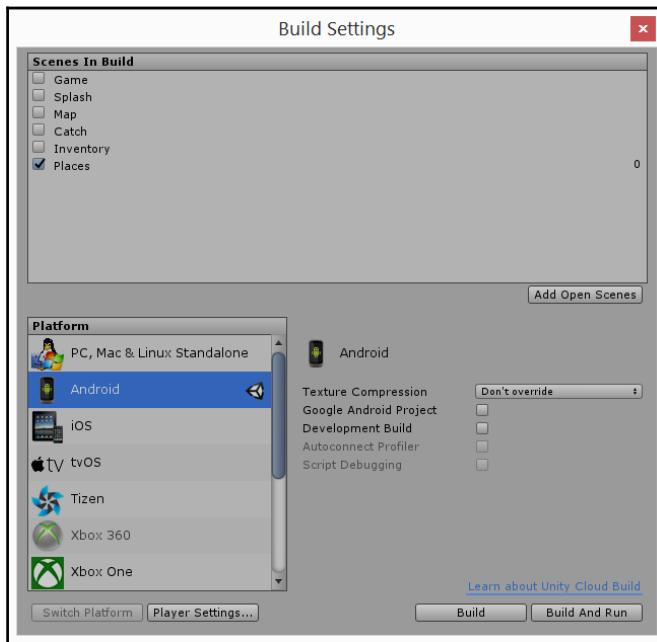
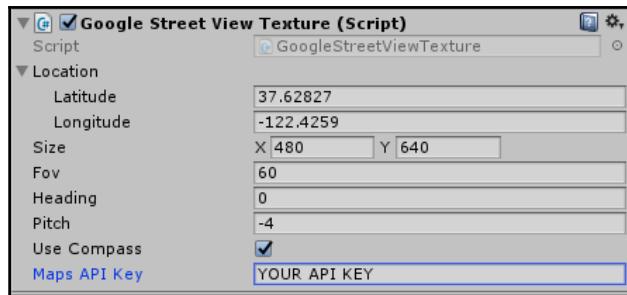


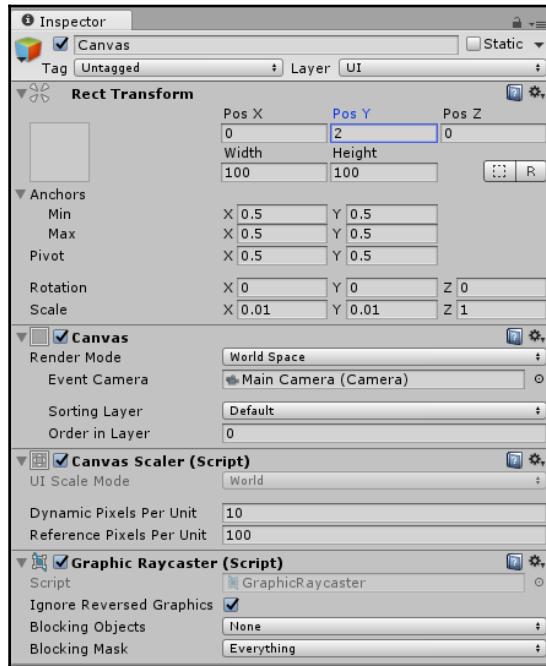
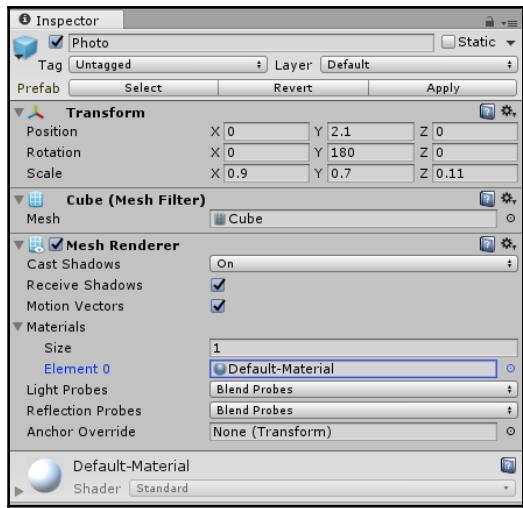


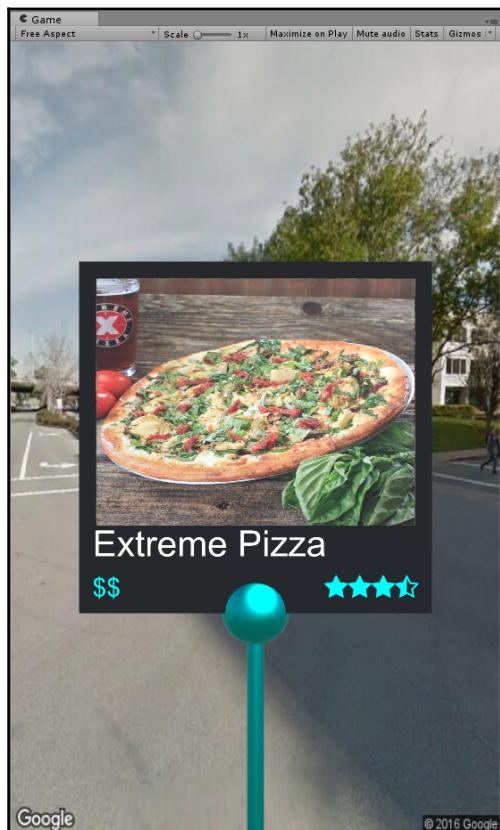
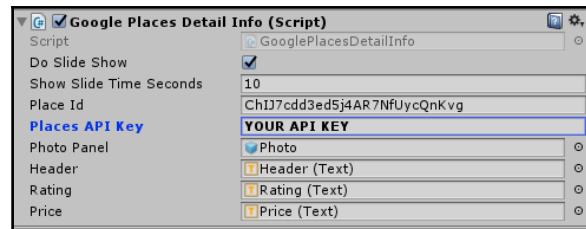


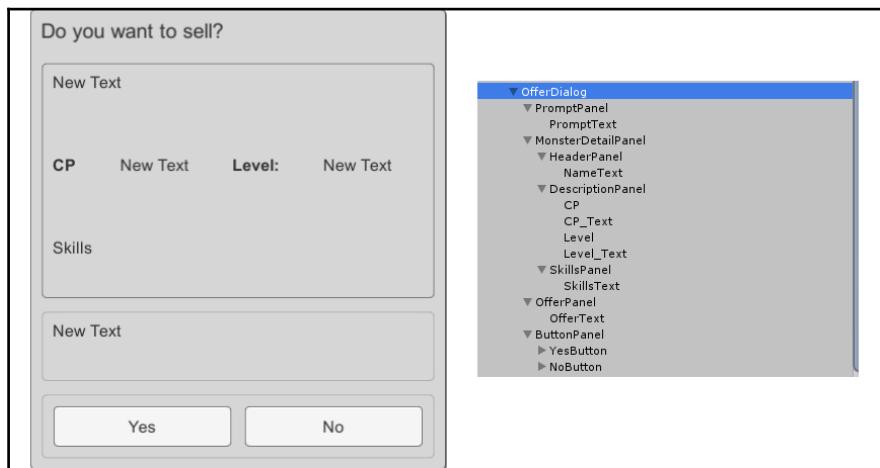
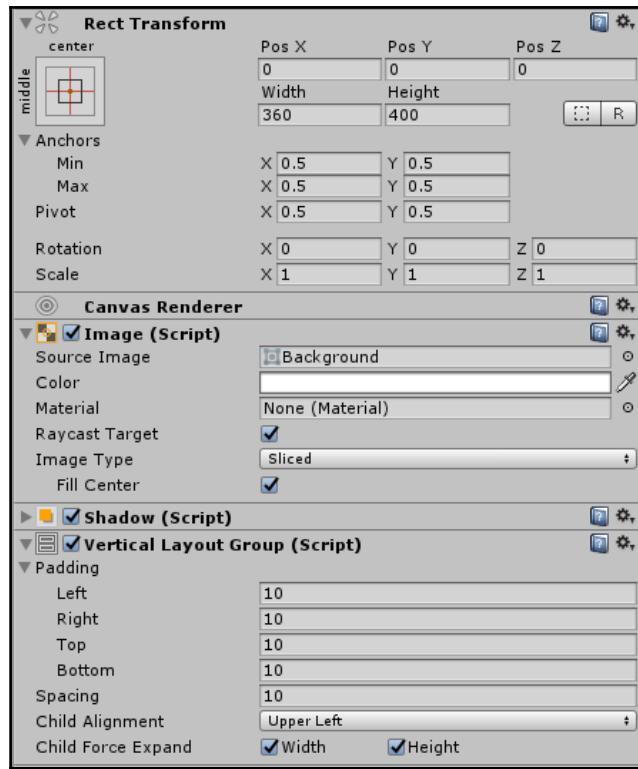
Chapter 8: Interacting with an AR World

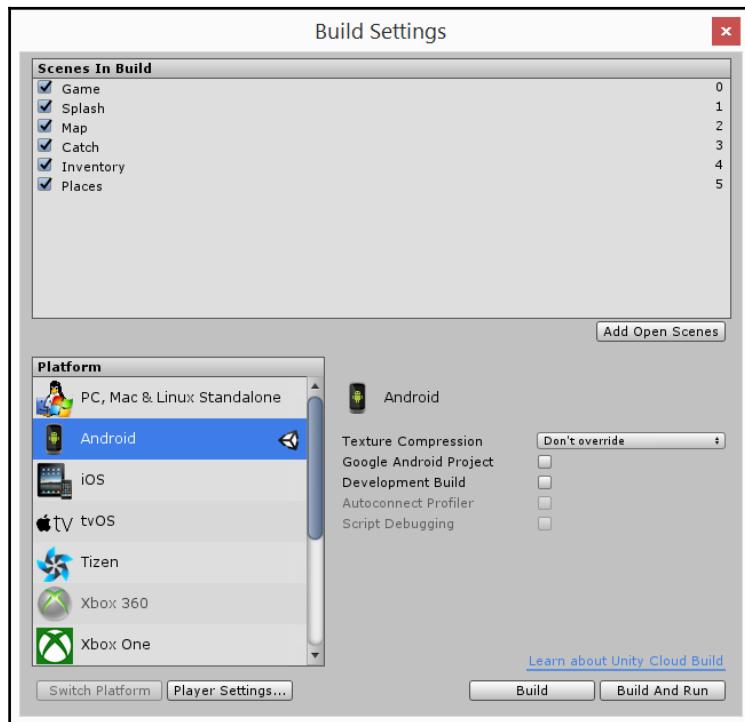
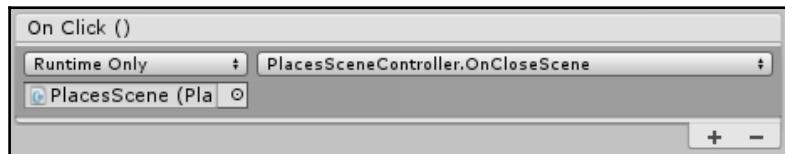
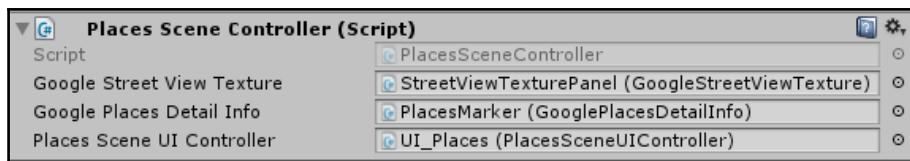


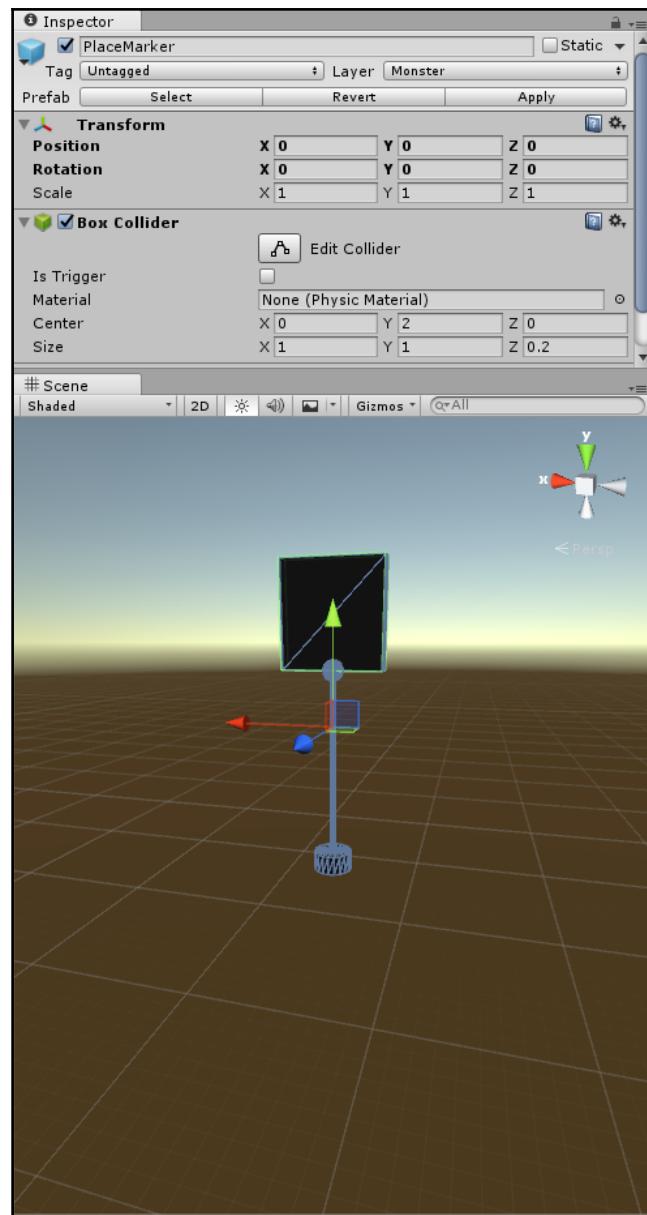






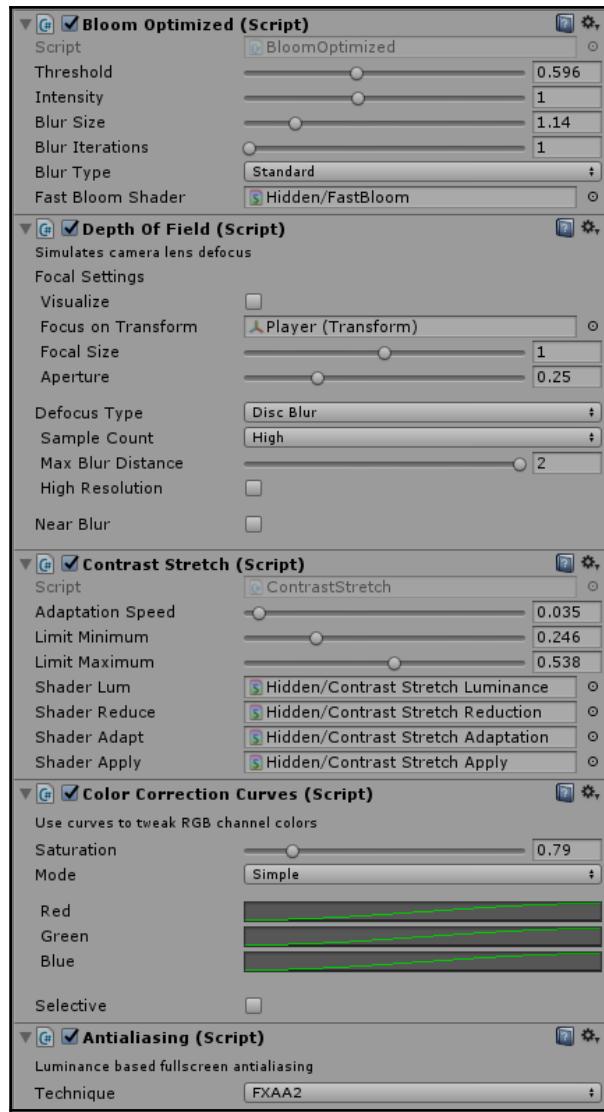


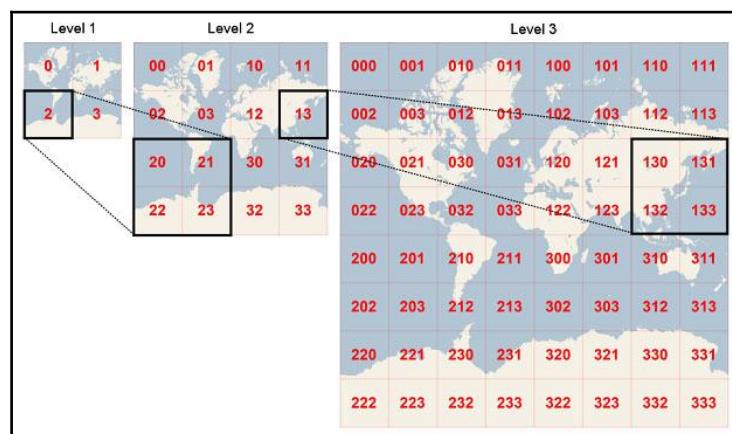
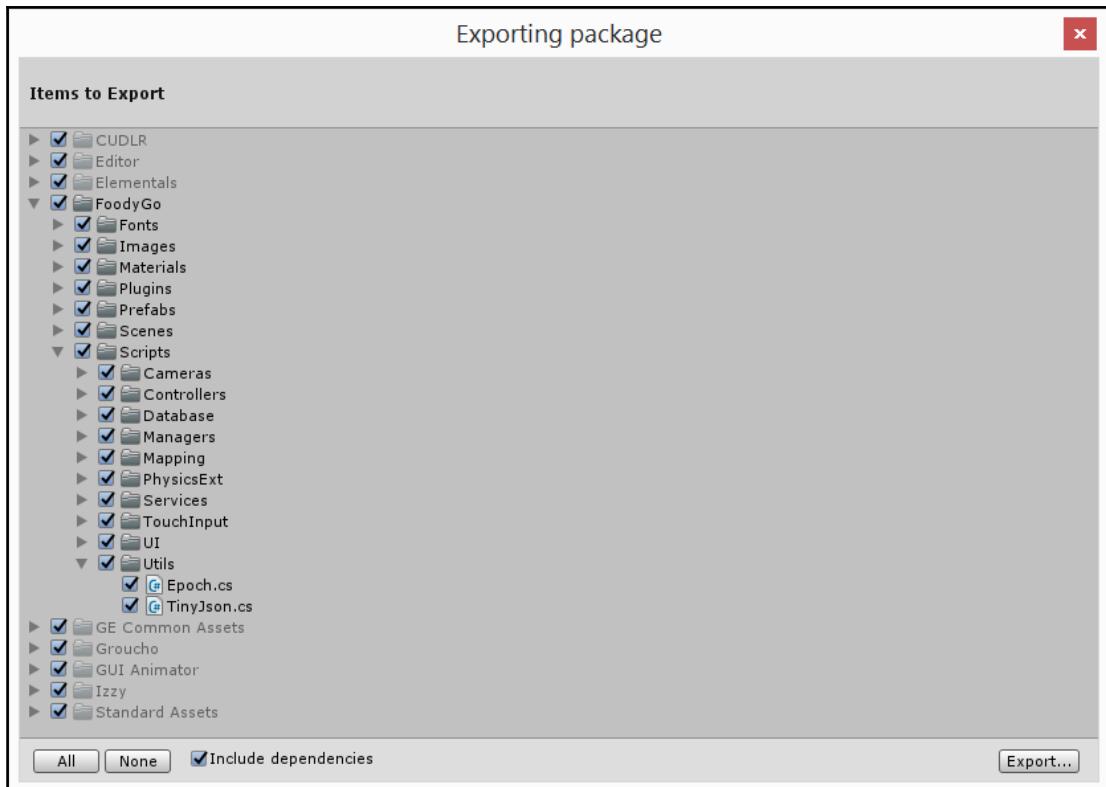




Chapter 9: Finishing the Game









Create a project X

Project name

Country/region ?

By default, your Firebase Analytics data will enhance other Firebase features and Google products. You can control how your Firebase Analytics data is shared in your settings at anytime. [Learn more](#)

CANCEL CREATE PROJECT

Firebase

TestApp

Analytics

DEVELOP

Authentication

Database

Storage

Hosting

Test Lab

Crash Reporting

Spark Free \$0/month UPGRADE

Realtime Database

DATA RULES USAGE BACKUPS

SIMULATOR

Default security rules require users to be authenticated

LEARN MORE DISMISS

```
1 * {  
2 *   "rules": {  
3 *     ".read": "auth != null",  
4 *     ".write": "auth != null"  
5 *   }  
6 }
```

Unpublished changes

PUBLISH DISCARD SIMULATOR

Default security rules require users to be authenticated

LEARN MORE DISMISS

```
1 * {  
2 *   "rules": {  
3 *     ".read": "true",  
4 *     ".write": "true"  
5 *   }  
6 }
```

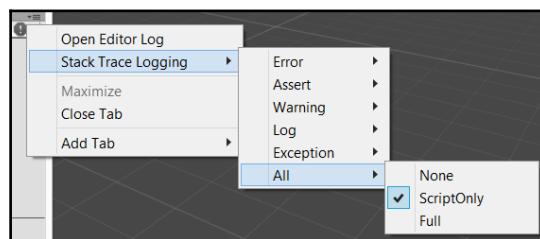
Email:	ml@me.com	Firebase Top 5 Scores
Score:	100	100 ml@me.com
Enter Score		100 ddd

Attempting to add score
ml@me.com 100
Running Transaction...
Transaction complete.

The screenshot shows the Firebase Realtime Database interface for a project named "TestApp". The left sidebar lists various services: Analytics, DEVELOP, Authentication, **Database** (selected), Storage, Hosting, Test Lab, and Crash Reporting. A "Spark" plan is active with a "UPGRADE" button. The main area is titled "Realtime Database" with tabs for DATA, RULES, USAGE, and BACKUPS. The URL is https://testapp-53f70.firebaseio.com/. The database structure under "testapp-53f70" is as follows:

```
testapp-53f70
  |- Leaders
    |- 1
      |- email: "ddd"
      |- score: 100
    |- 2
      |- email: "ml@me.com"
      |- score: 100
```

Chapter 10: Troubleshooting



The screenshot shows two views of the same C# script, `RotateObject.cs`.

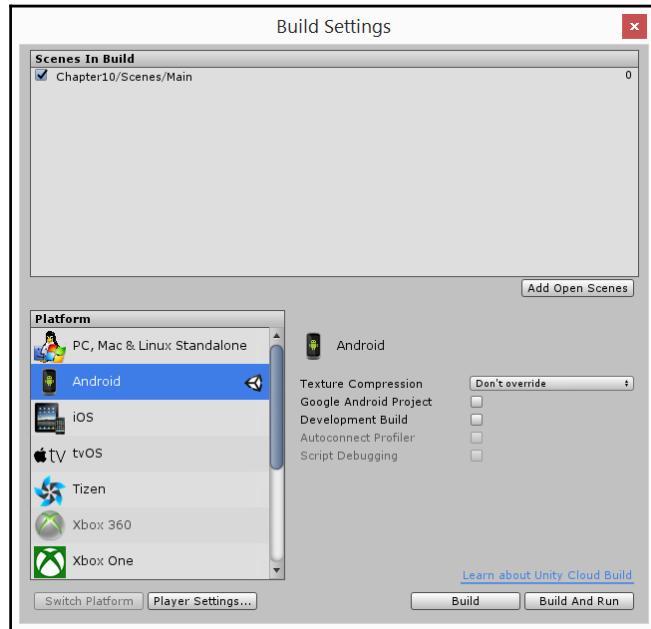
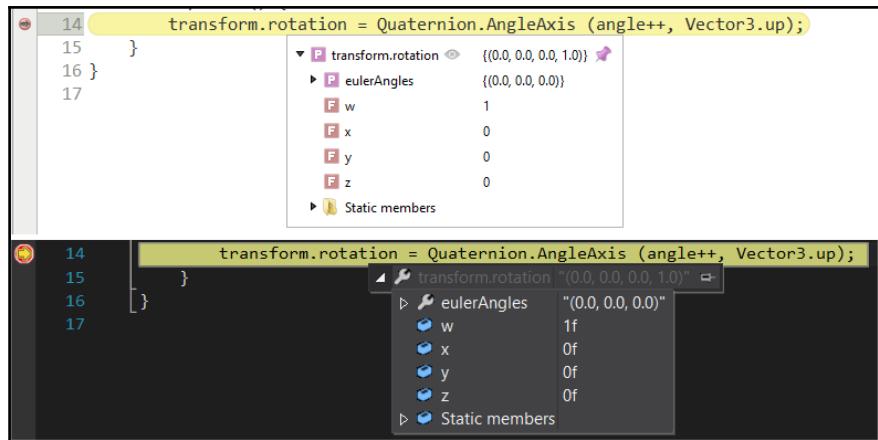
Editor View:

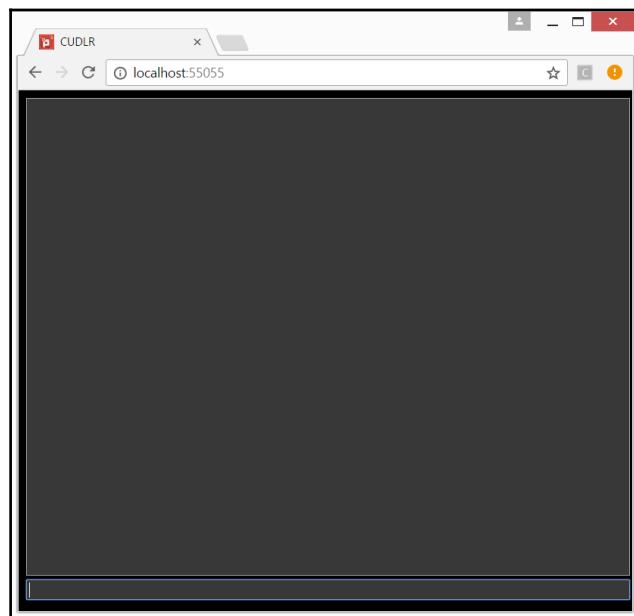
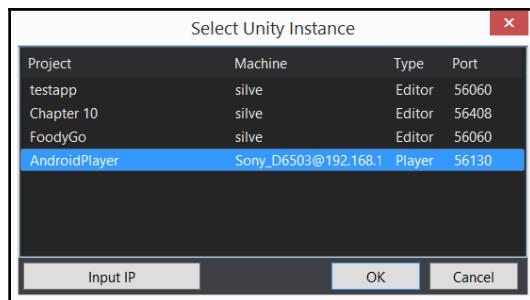
```
1 using UnityEngine;
2 using System.Collections;
3
4 public class RotateObject : MonoBehaviour {
5
6     private float angle;
7     // Use this for initialization
8     void Start () {
9
10    }
11
12    // Update is called once per frame
13    void Update () {
14        transform.rotation = Quaternion.AngleAxis (angle++, Vector3.up);
15    }
16 }
```

Project View:

```
Chapter 10.CSharp
  - references
  4  public class RotateObject : MonoBehaviour {
  5
  6      private float angle;
  7      // Use this for initialization
  8      void Start () {
  9
 10     }
 11
 12      // Update is called once per frame
 13      void Update () {
 14          transform.rotation = Quaternion.AngleAxis (angle++, Vector3.up);
 15      }
 16  }
```

A red circle highlights the line of code in the Editor view where the error occurred: `transform.rotation = Quaternion.AngleAxis (angle++, Vector3.up);`. A red dot also marks the same line in the Project View.





● Inspector Services Go to Dashboard ↗

Chapter 10

SERVICES

Unity provides you a suite of integrated services for creating games, increasing productivity and managing your audience.

SERVICES MEMBERS AGE DESIGNATION SETTINGS

 Ads	<input type="button" value="OFF"/>
Monetize your games	
 Analytics	<input checked="" type="button" value="ON"/>
Discover player insights	
 Cloud Build	<input type="button" value="OFF"/>
Build games faster	
 Collaborate <small>BETA</small>	<input type="button" value="OFF"/>
Create together seamlessly	
 Performance Reporting	<input type="button" value="OFF"/>
Discover app errors	
 In-App Purchasing	<input type="button" value="OFF"/>
Simplify cross-platform IAP	
 Multiplayer	
Easily implement multiplayer	

[Privacy Policy ↗](#)

