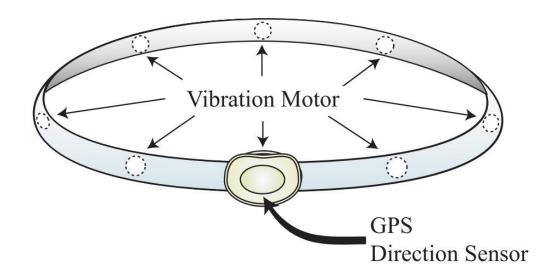
Chapter 1: Augment Your World





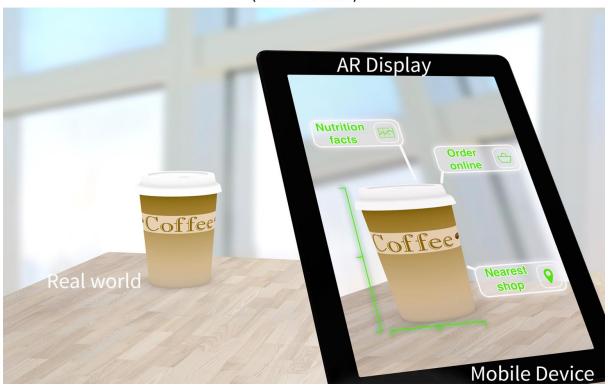






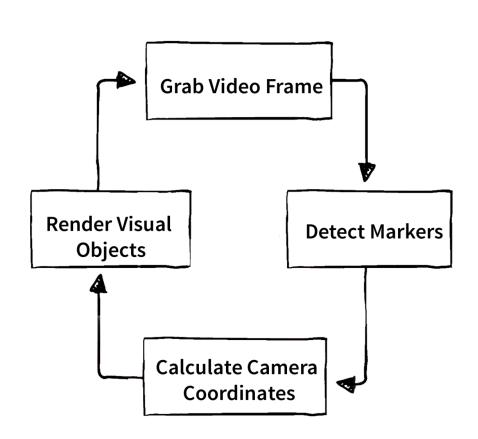
Handheld mobile video see-through

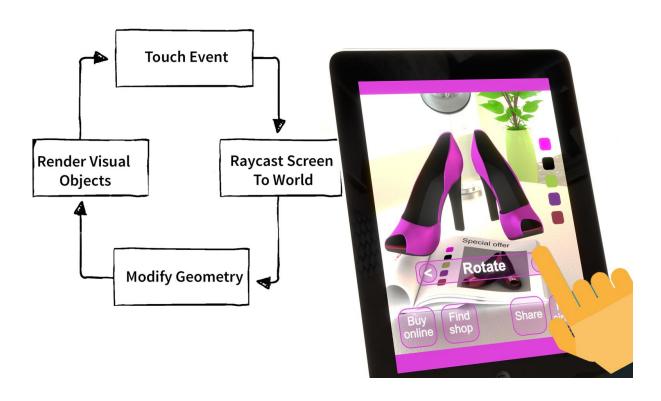
(Monocular)

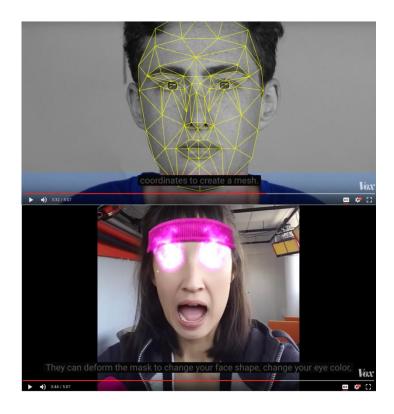


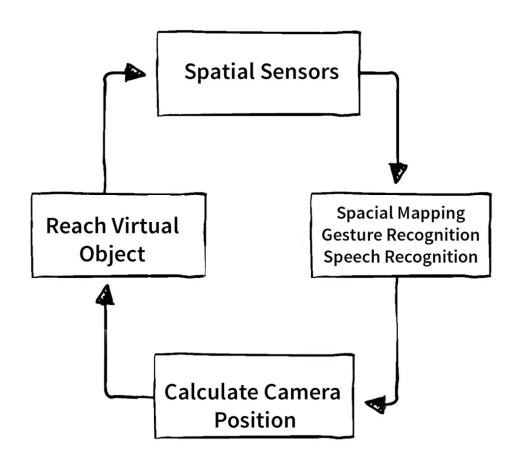
Wearable near-eye optical see-through



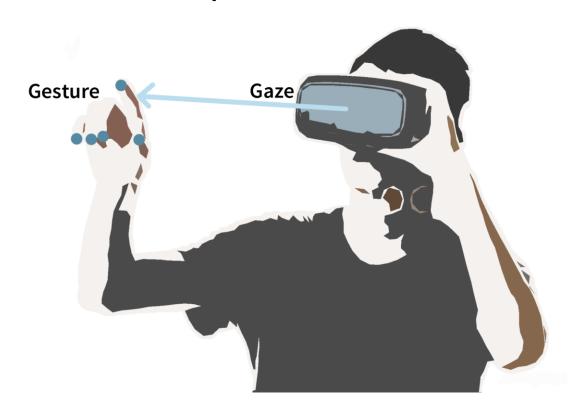








Input Interact







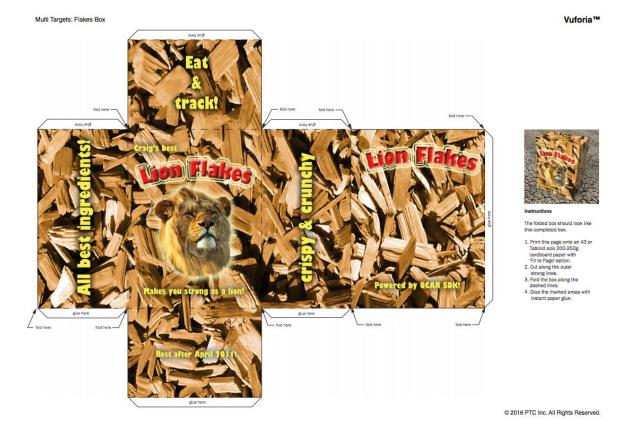




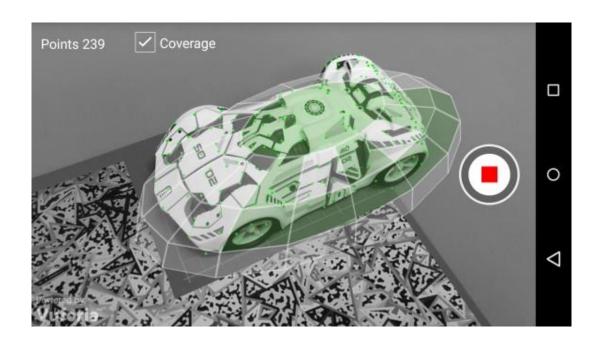










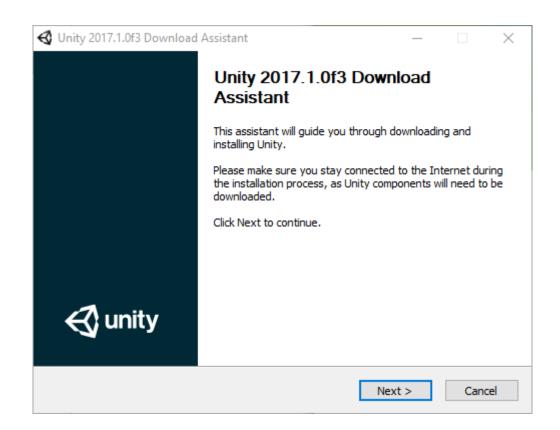


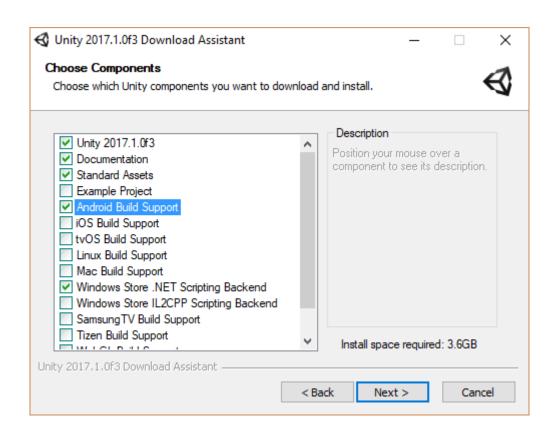


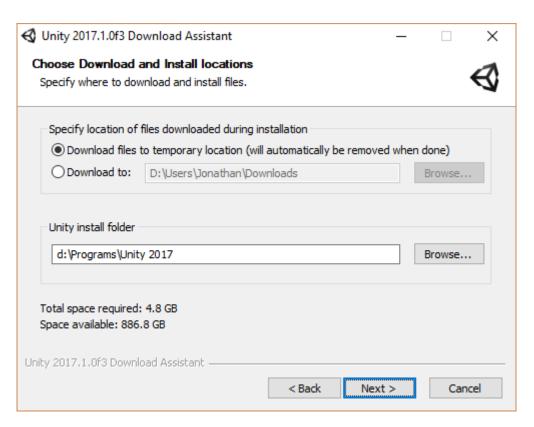


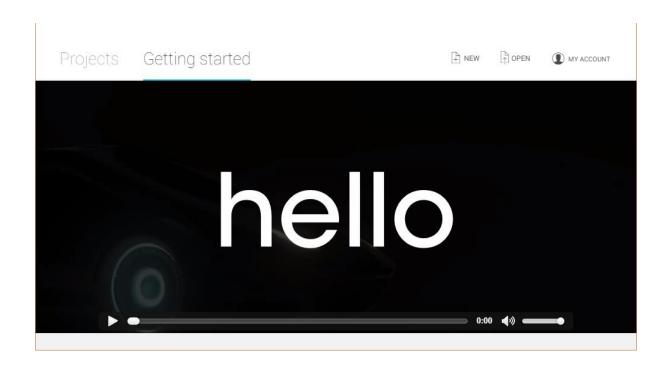
Chapter 2: Setting Up Your System

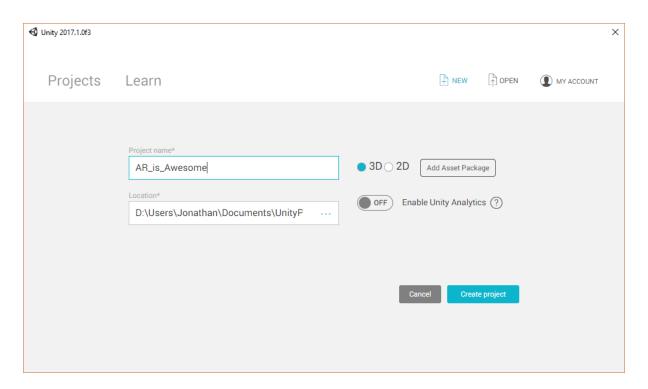


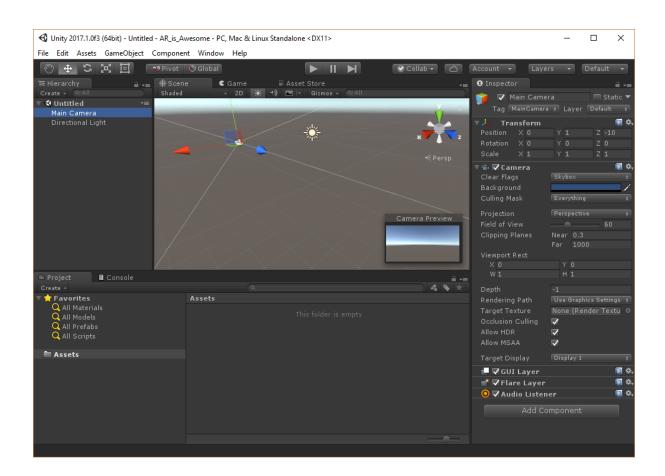




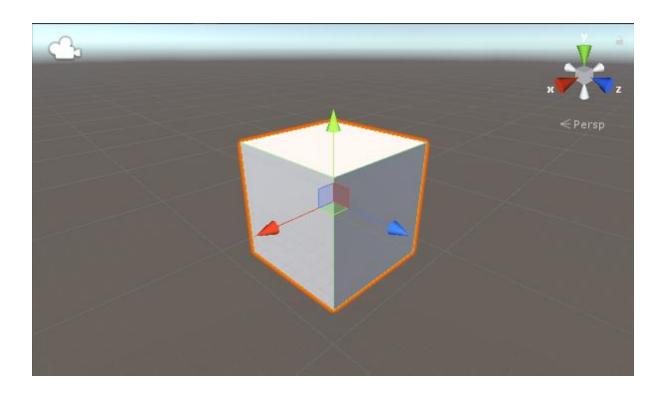


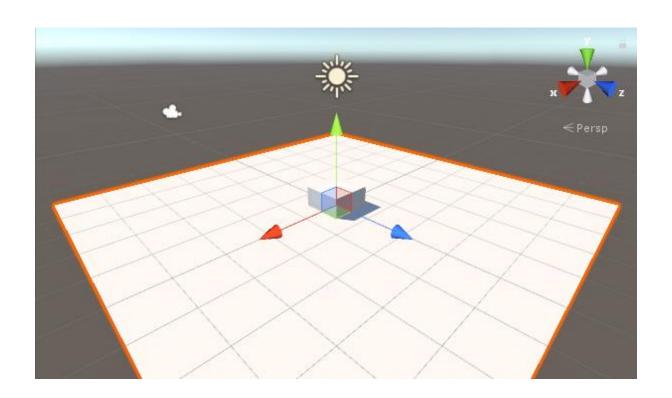


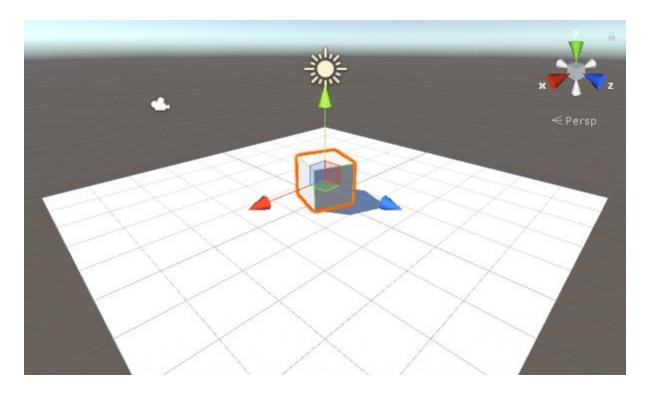


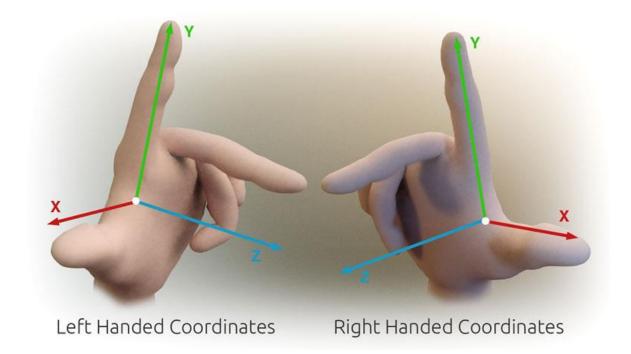


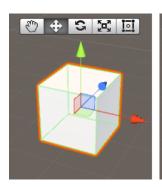


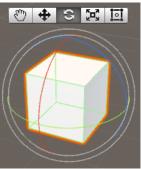


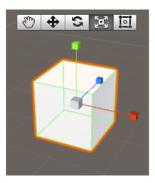


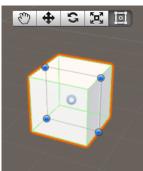


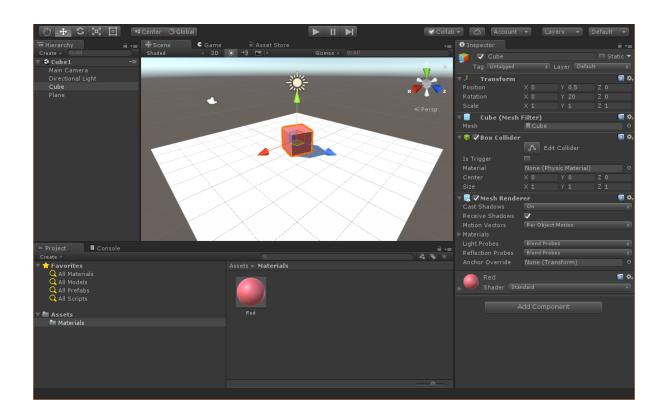


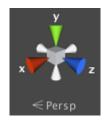


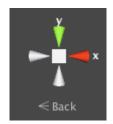




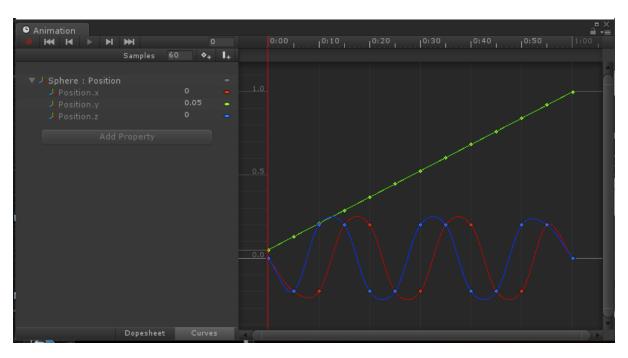


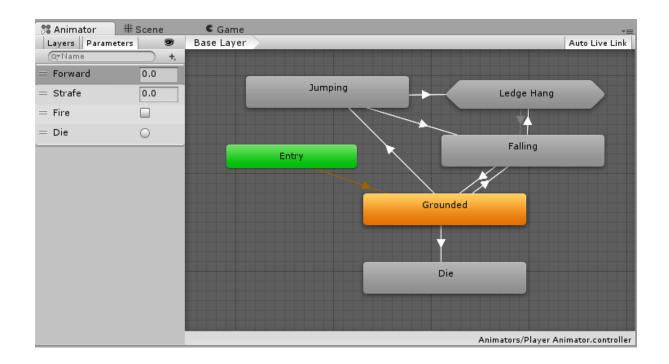




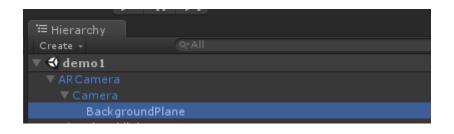


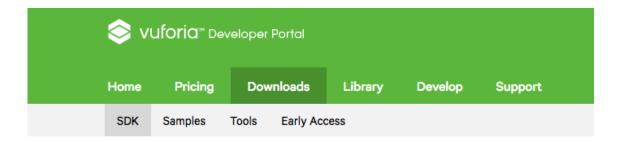










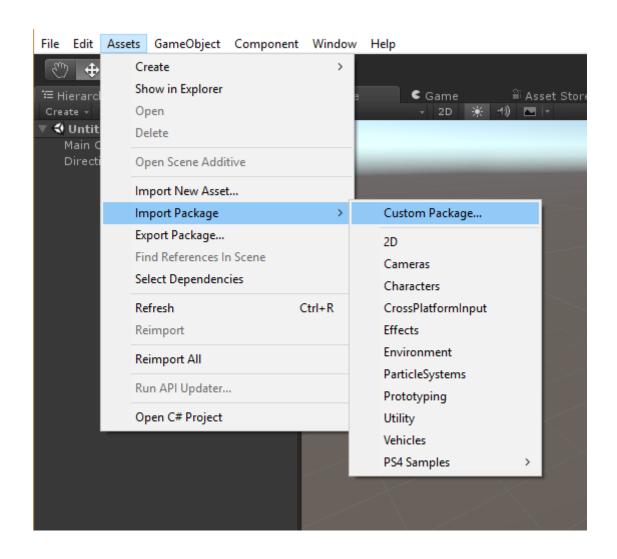


Vuforia 6.2

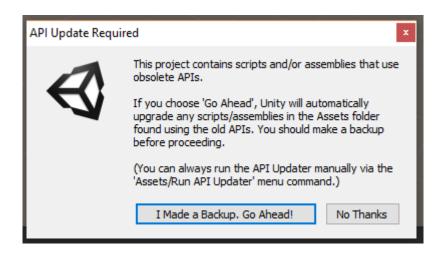
Use the Vuforia SDK to build Android, iOS, and UWP applications for mobile devices and digital eyewear. Apps can be built with Android Studio, XCode, Visual Studio, and Unity.



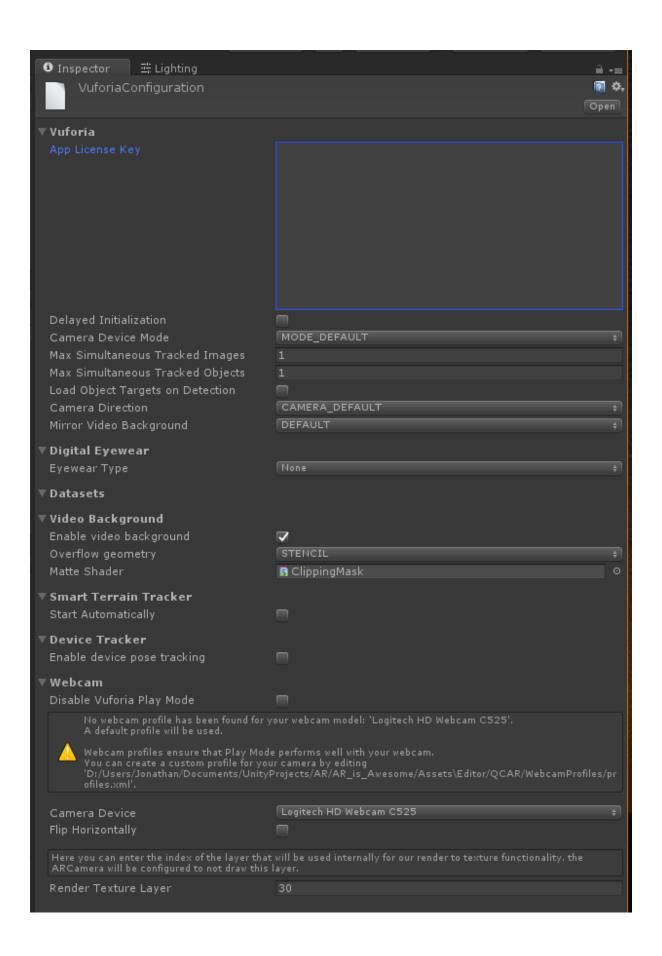
Release Notes

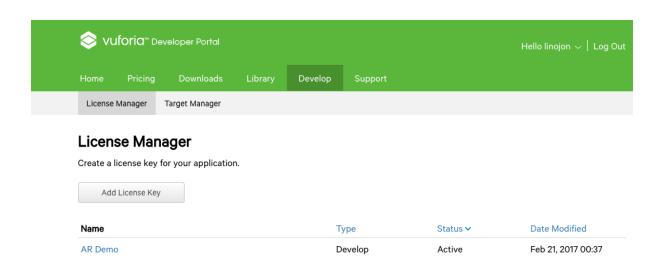












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X6Wh1MFmL

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OH0s

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EvNW/4ZSJ/

Type: Develop Status: Active

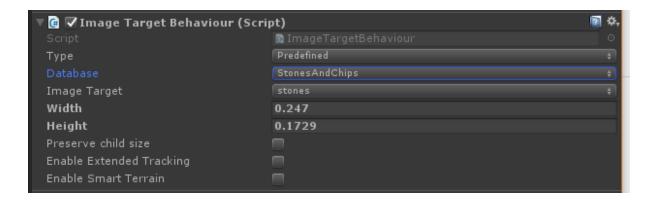
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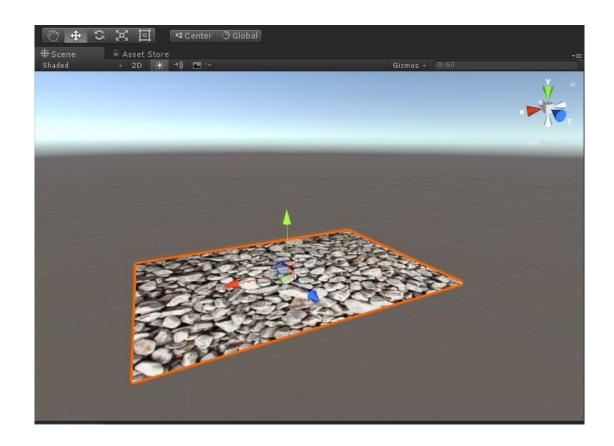
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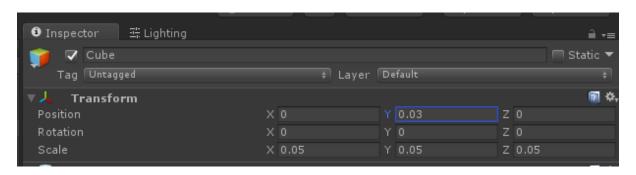
License Created - Today 18:46

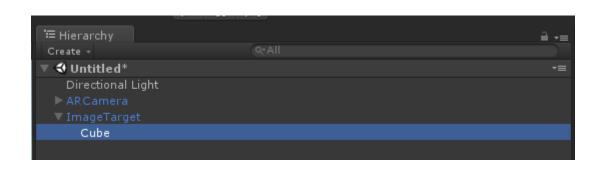
'D:/Users/Jonathan/Documents/UnityProjects/AR/AR_is_Awesome/Assets\Editor/QCAR/WebcamProfiles/pr ofiles.xml'.		
Camera Device	Logitech HD Webcam C525	
Flip Horizontally		
Here you can enter the index of the layer that will be used internally for our render to touture functionality, the		

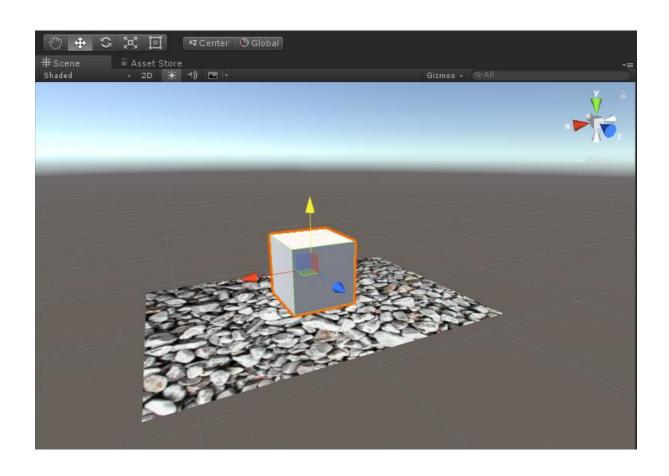


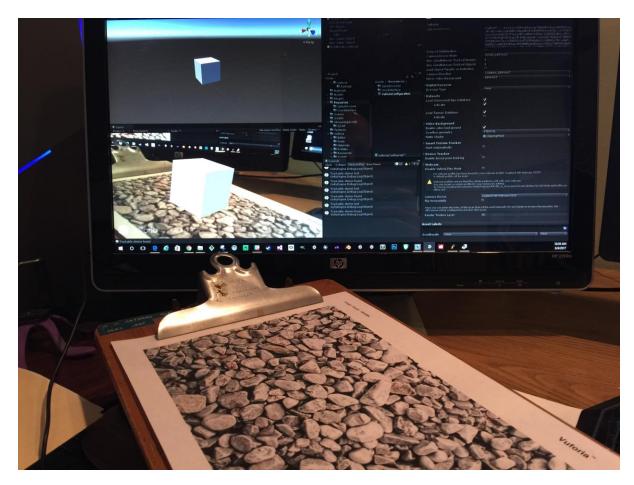












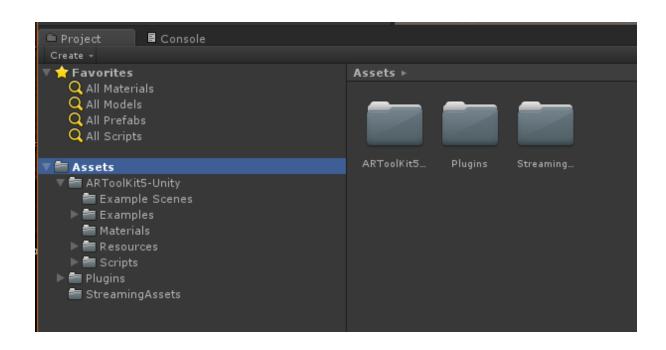
Using Unity?

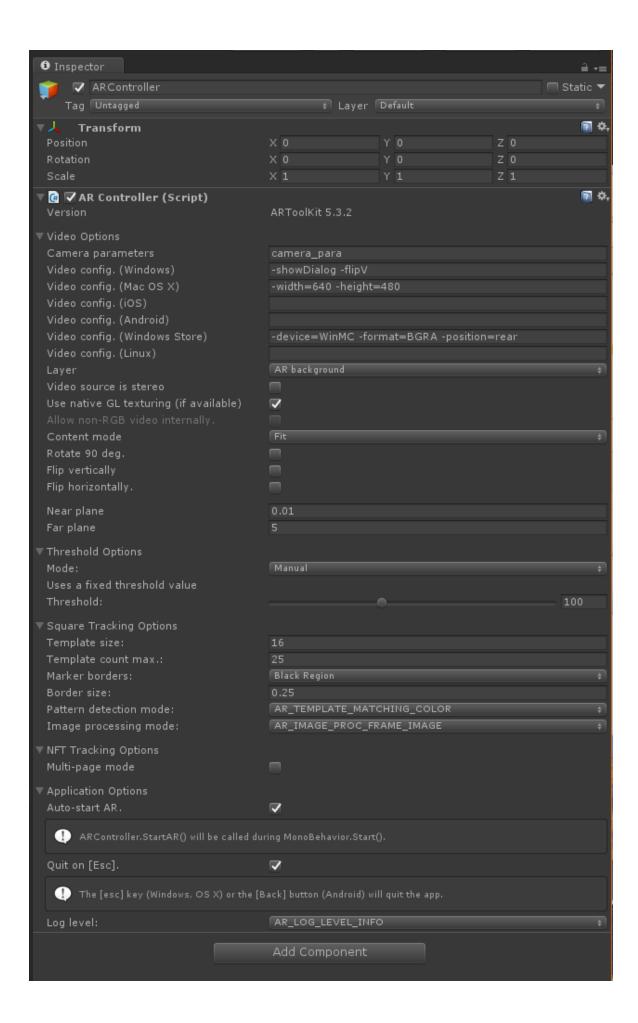
The latest ARToolKit for Unity package includes a full project and examples source, plus binaries for plugins and utilities. Plugins and utilities sources are in the ARToolKit packages.

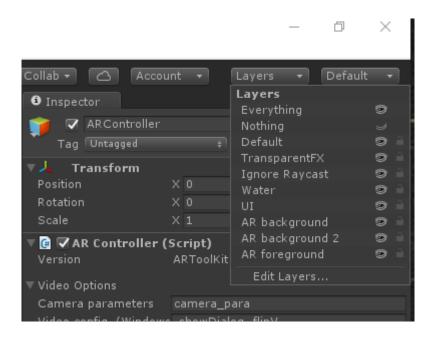
Latest Version: 5.3.2

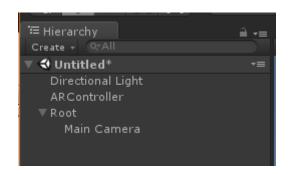


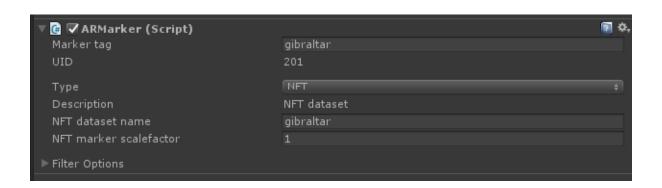


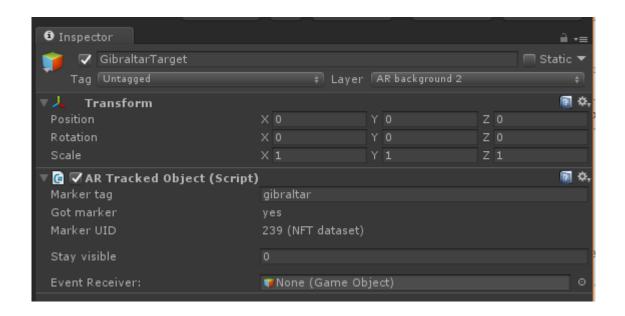


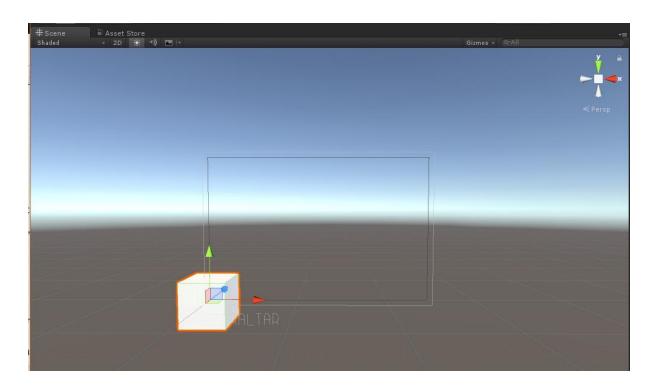


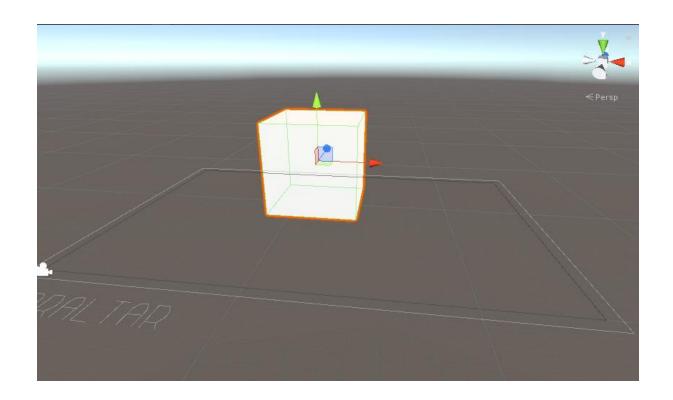


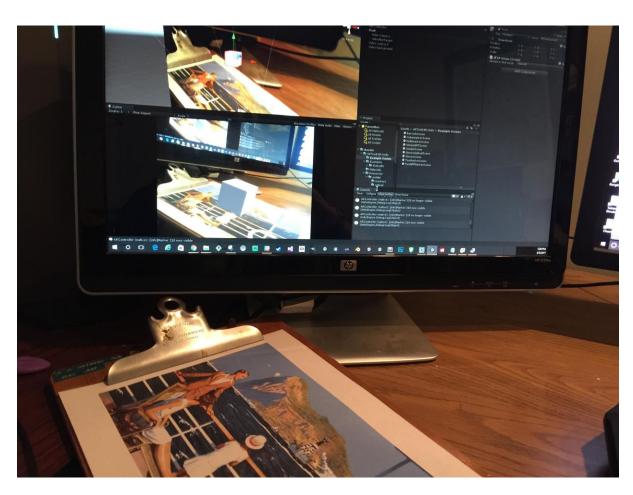


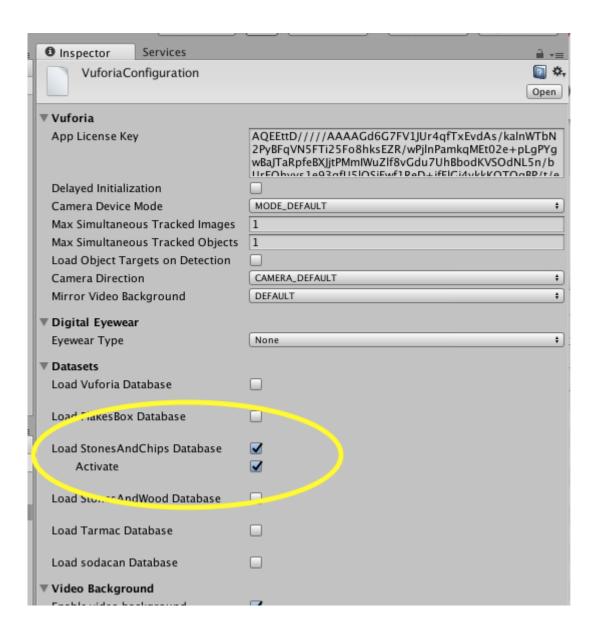


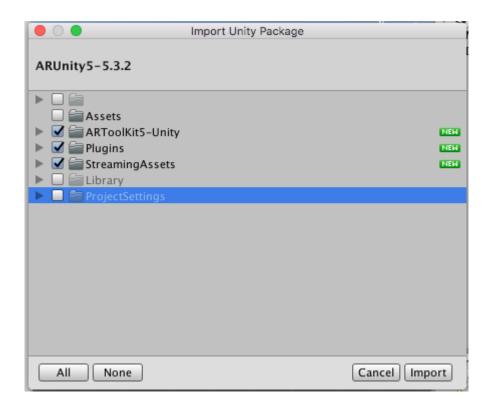




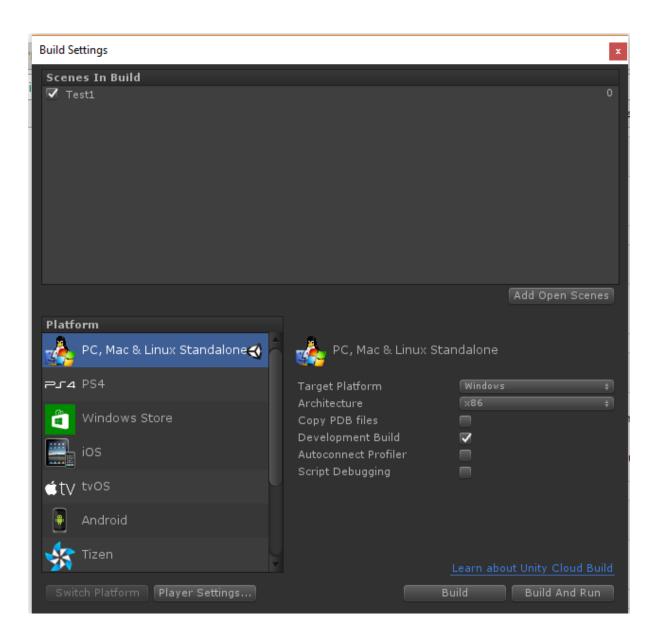


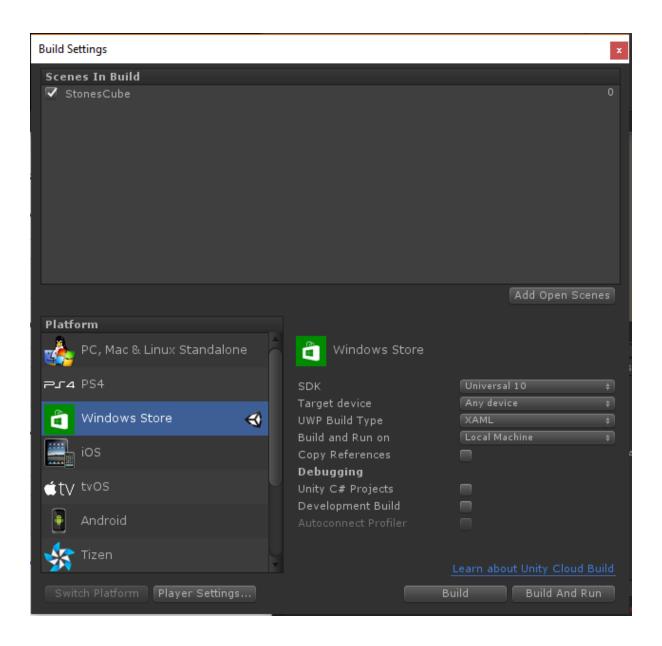


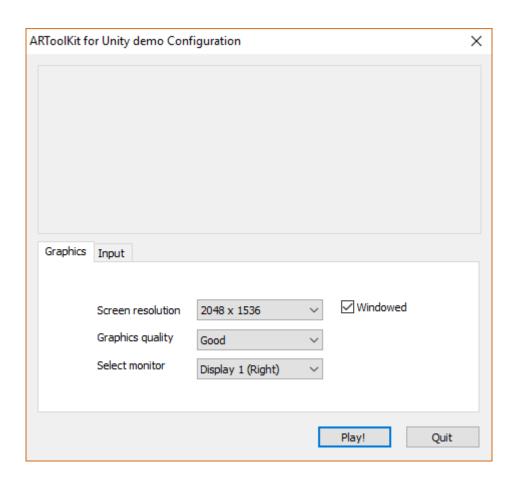


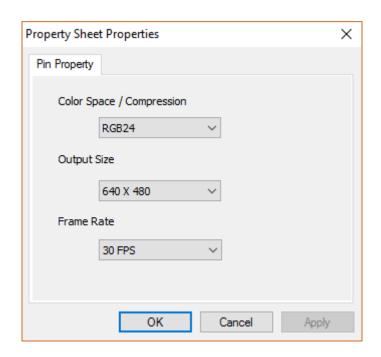


Chapter 3: Building Your App











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Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, applets, and components using the Java programming language.

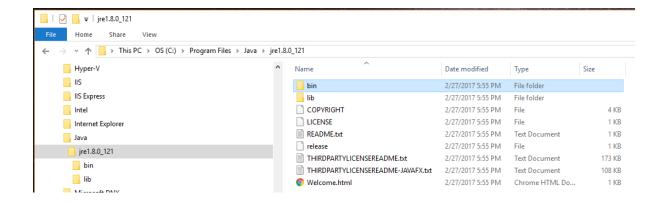
The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform.

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[15:43][jonathan@Jonathans-iMac:~]\$ /usr/libexec/java_home
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Android Studio

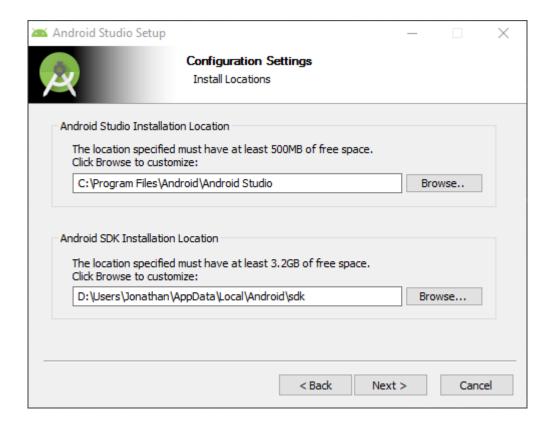
The Official IDE for Android

Android Studio provides the fastest tools for building apps on every type of Android device.

World-class code editing, debugging, performance tooling, a flexible build system, and an instant build/deploy system all allow you to focus on building unique and high quality apps.



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2.3 FOR WINDOWS (1.848 MB)



Get just the command line tools

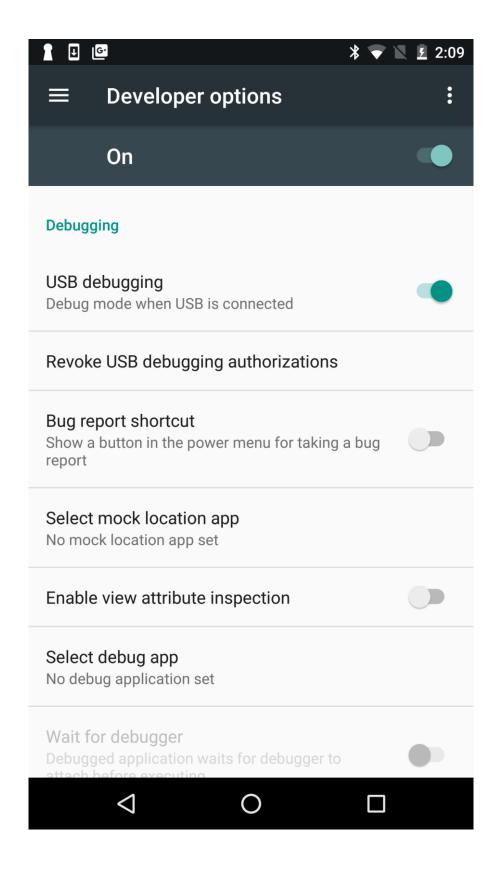
If you do not need Android Studio, you can download the basic Android command line tools below. You can use the included sdkmanager to download other SDK packages.

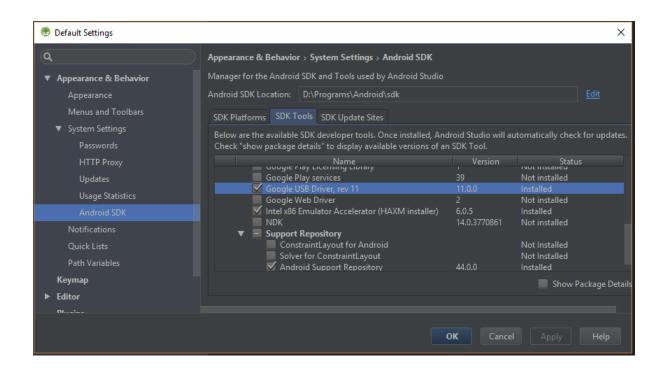
These tools are included in Android Studio.

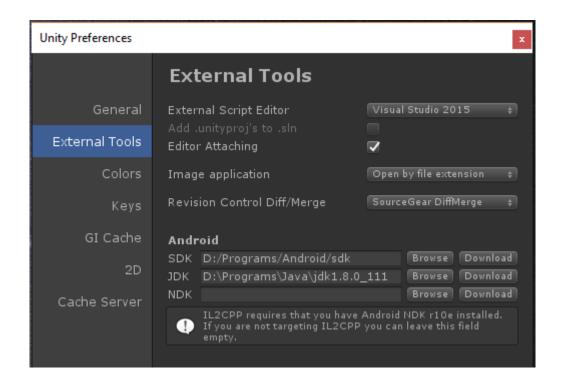
Platform	SDK tools package		SHA-1 checksum
Windows	tools_r25.2.3-windows.zip	292 MB (306,745,639 bytes)	b965decb234ed793eb9574bad8791c50ca574173
Mac	tools_r25.2.3-macosx.zip	191 MB (200,496,727 bytes)	0e88c0bdb8f8ee85cce248580173e033a1bbc9cb
Linux	tools_r25.2.3-linux.zip	264 MB (277,861,433 bytes)	aafe7f28ac51549784efc2f3bdfc620be8a08213

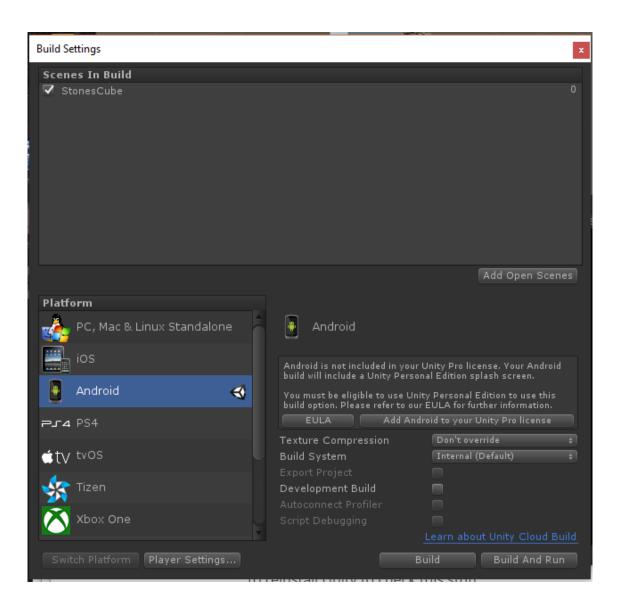
See the SDK tools release notes.

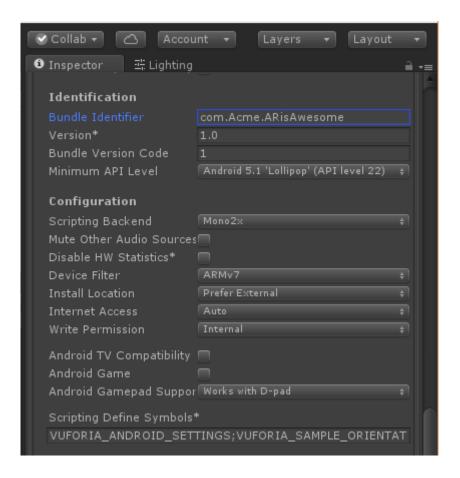




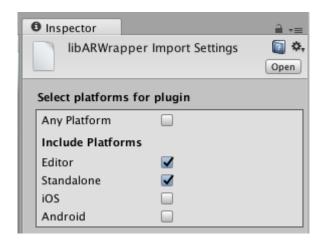


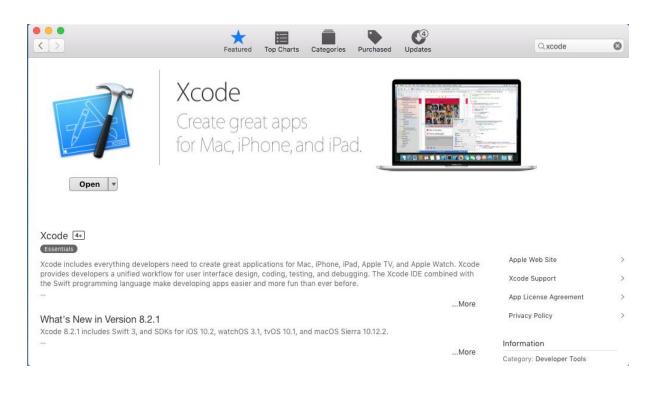


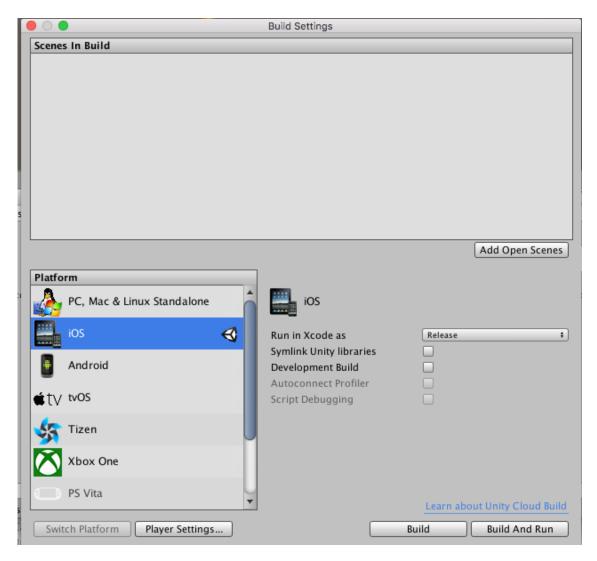


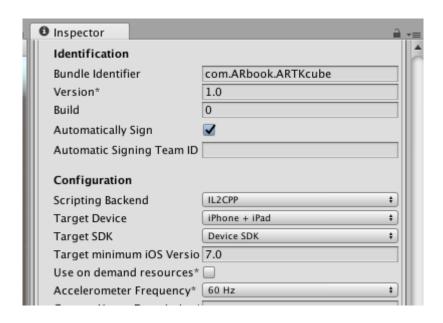


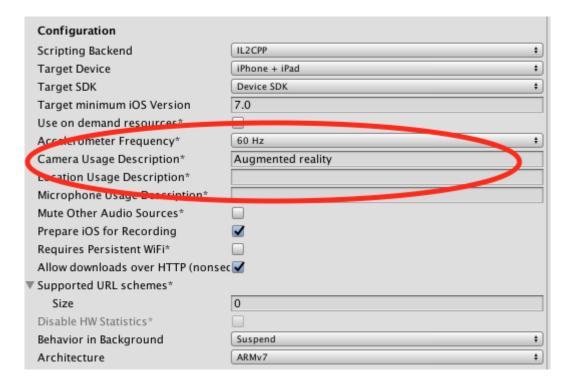


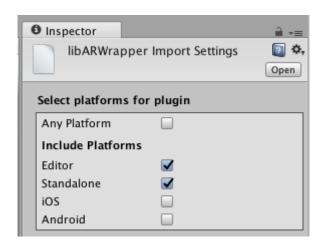


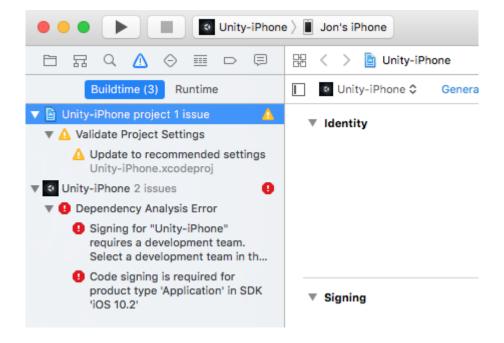


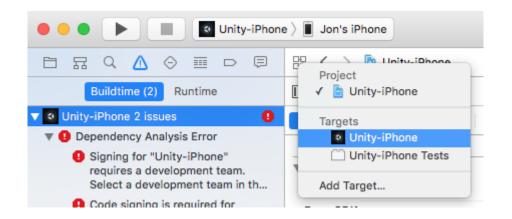


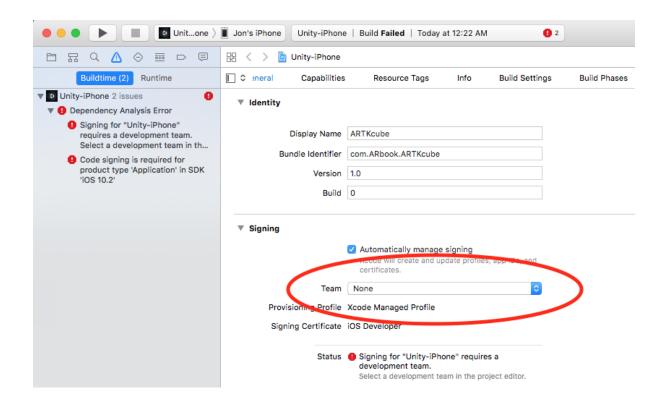


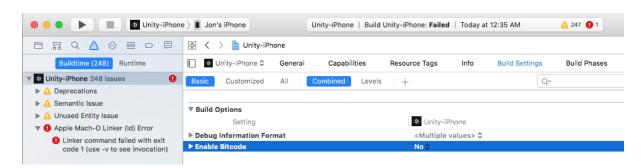


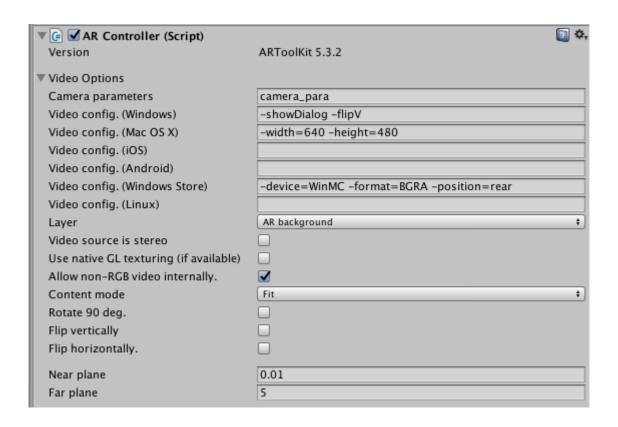


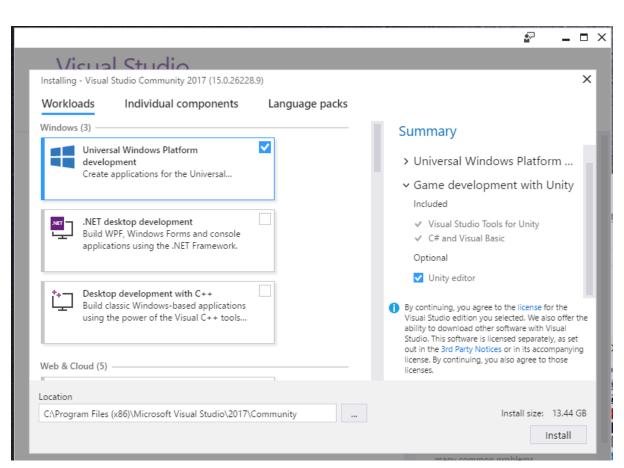


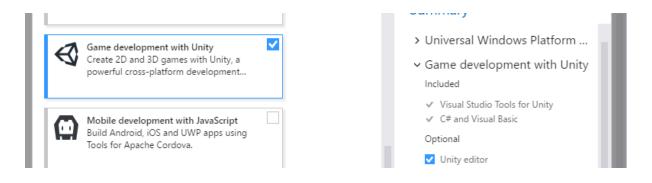




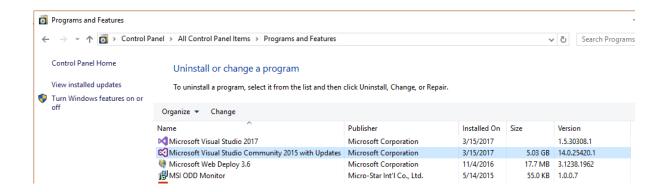








Installing - Visual	Studio Community 2017 (15.0.2622	8.9)
Workloads	Individual components	Language packs
Android	d NDK (R12B) (32bit)	
Android	d NDK (R13B)	
Android	d NDK (R13B) (32bit)	
Android	d SDK setup (API level 19 and 21)	
Android	d SDK setup (API level 22)	
Android	d SDK setup (API level 23)	
Apache	Ant (1.9.3)	
Blend fo	or Visual Studio SDK for .NET	
Cordov	a 6.3.1 toolset	
Entity F	ramework 6 tools	
Graphic	ts Tools Windows 8.1 SDK	
Java SE	Development Kit (8.0.920.14)	
MFC an	nd ATL support (x86 and x64)	
Modelii	ng SDK	
TypeScr	ript 2.0 SDK	
✓ TypeScr	ript 2.1 SDK	
Visual C	C++ ATL support	
Visual S	Studio SDK	
windov	ws 10 SDK (10.0.10246.6)	
✓ Windov	vs 10 SDK (10.0.10586.0)	
	vs 10 SDK (10.0.14393.0)	
Windov	vs 8.1 SDK	
Windov	vs Universal C Runtime	





Specify Location

Install the Microsoft HoloLens Emulator 10.0.14393.0 to this computer

Install Path:

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* Windows Kit common installation path used

O Download the Microsoft HoloLens Emulator 10.0.14393.0 for installation on a separate computer

Download Path:

C:\Users\aWain\Downloads\Windows Kits\10\Emulator

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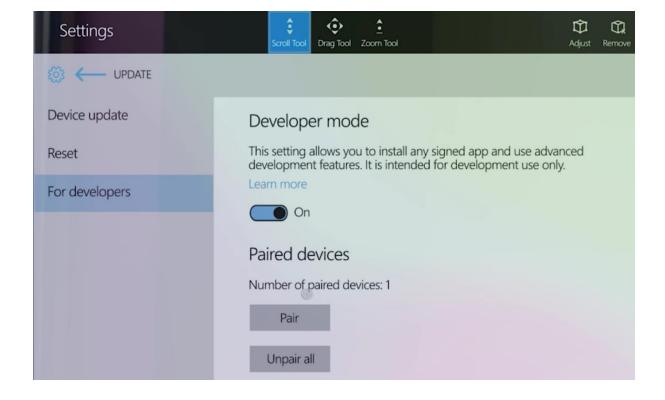
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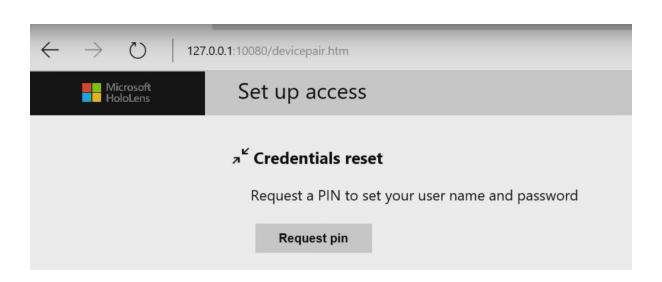
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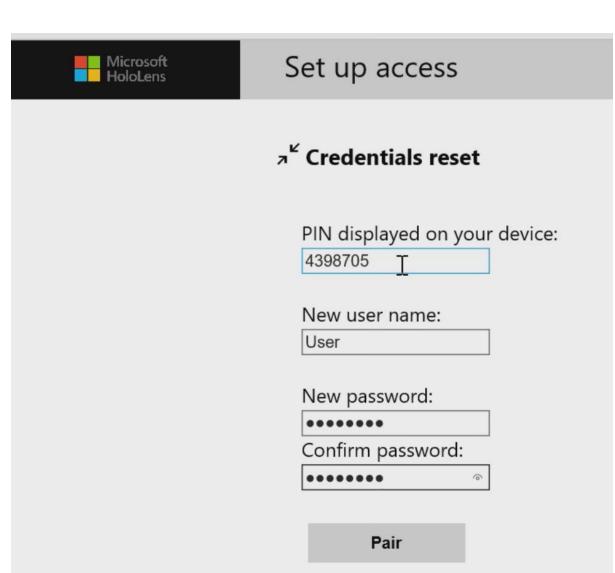
2.3 GB

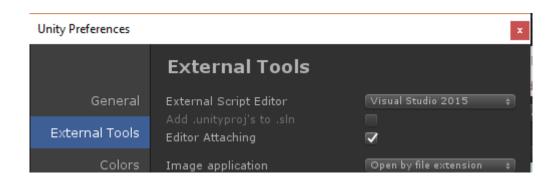
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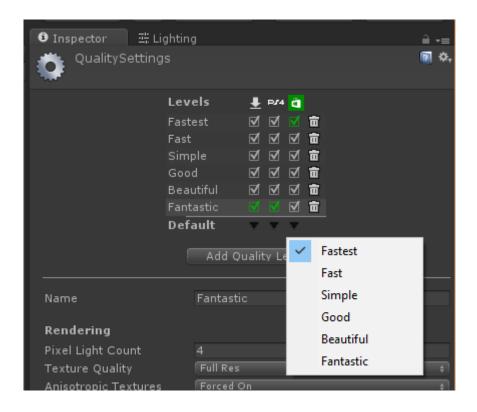
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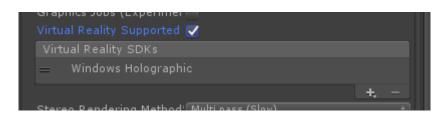


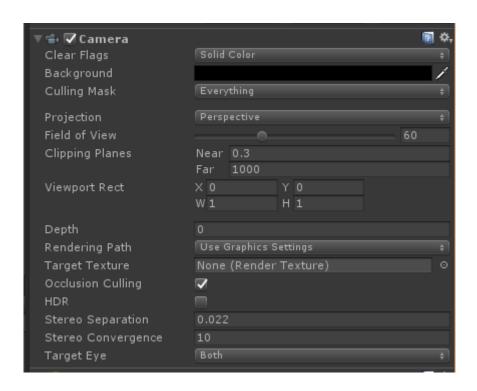


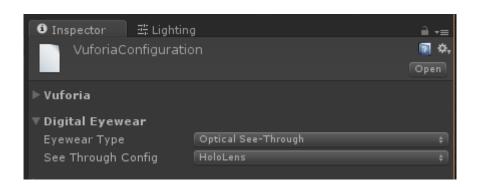


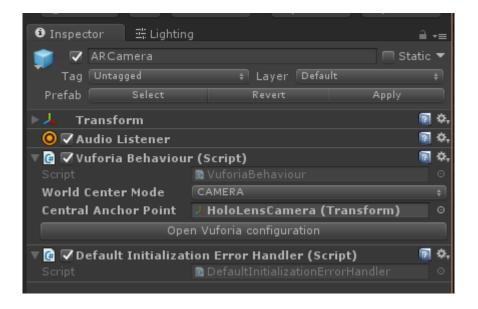


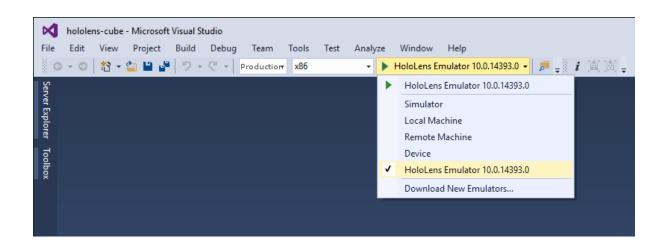


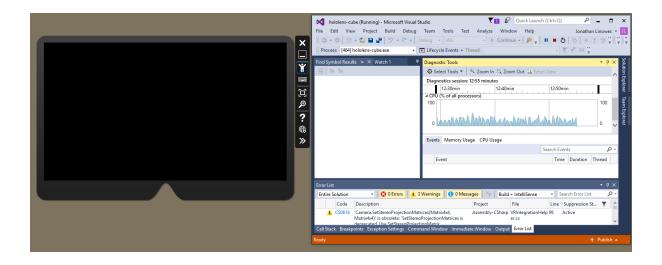


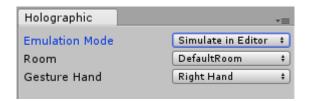


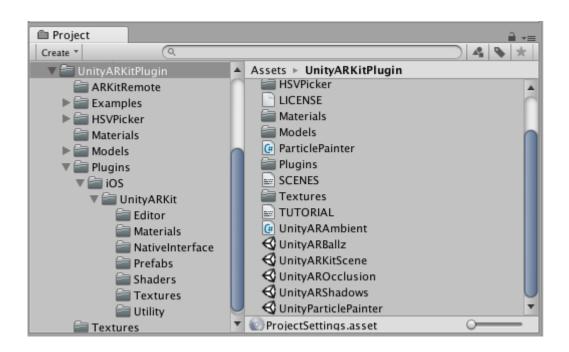




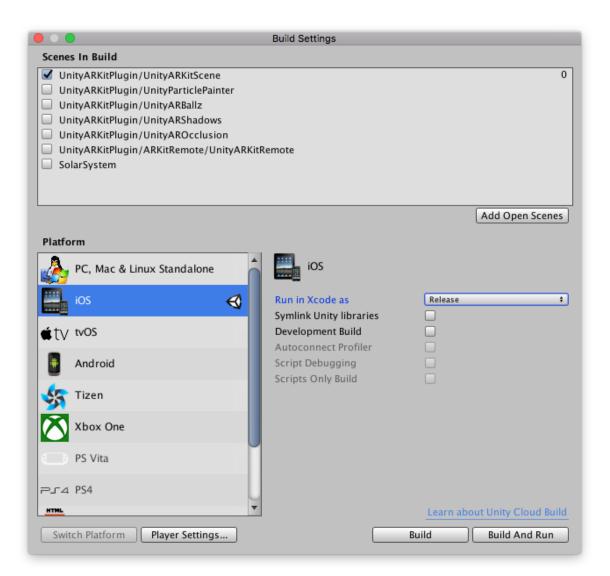










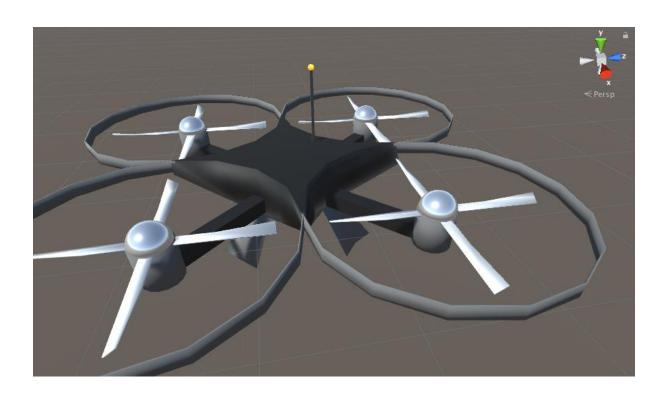


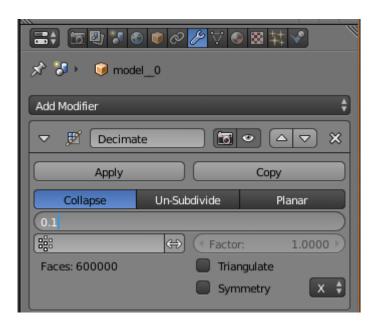


Chapter 4: Augmented Business Cards









Create Database

Orodio Balabaoo				
Name:				
BusinessCard				
Туре:				
Device				
Cloud				
○ VuMark				

Cancel

Create

Add Target

Type:









Single Image

Cuboid

Cylinder

3D Object

File:

PurpleFinchCard.png

Browse...

.jpg or .png (max file 2mb)

Width:

0.09

Enter the width of your target in scene units. The size of the target should be on the same scale as your augmented virtual content. Vuforia uses meters as the default unit scale. The target's height will be calculated when you upload your image.

Name:

PurpleFinchCard

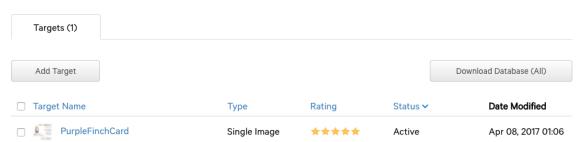
Name must be unique to a database. When a target is detected in your application, this will be reported in the API.

Cancel

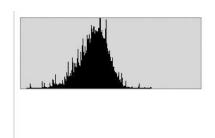
Add

BusinessCard Edit Name

Type: Device





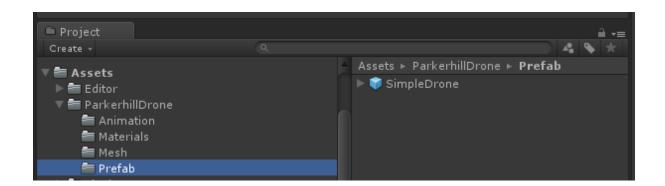


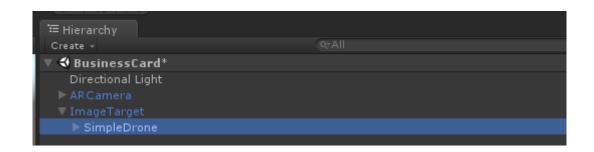




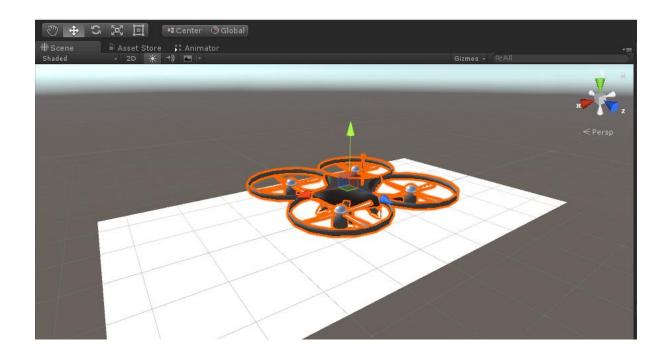


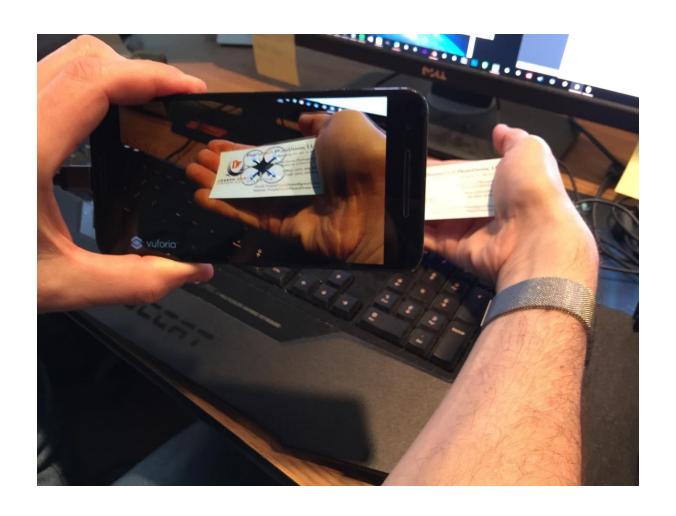


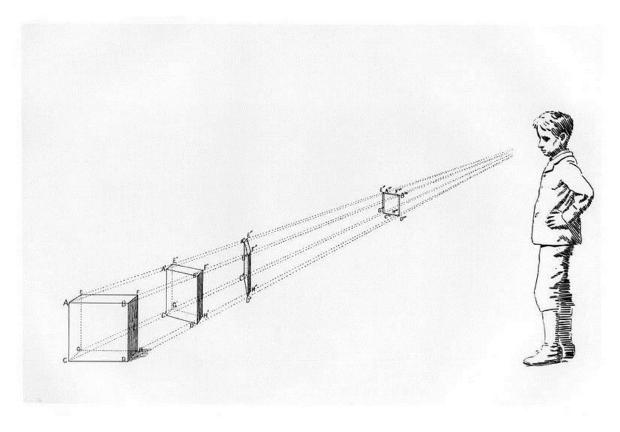


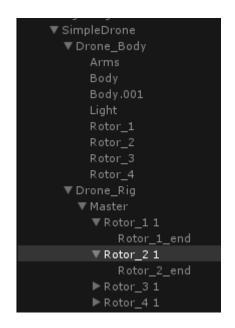


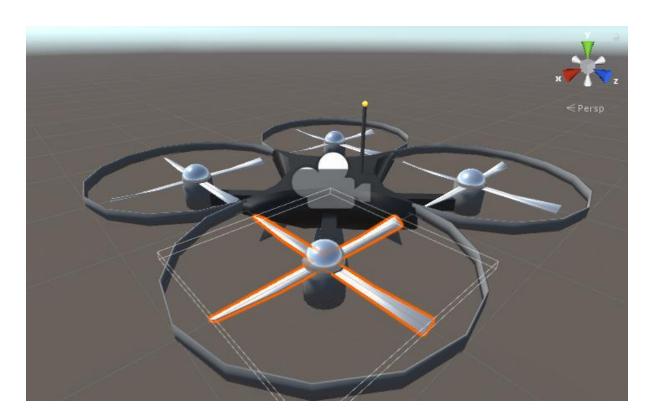


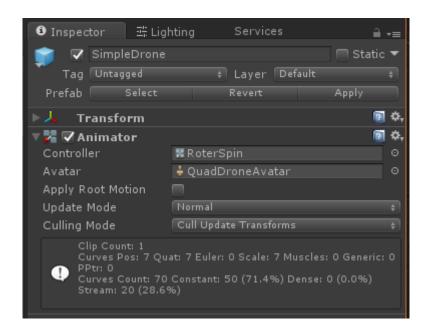


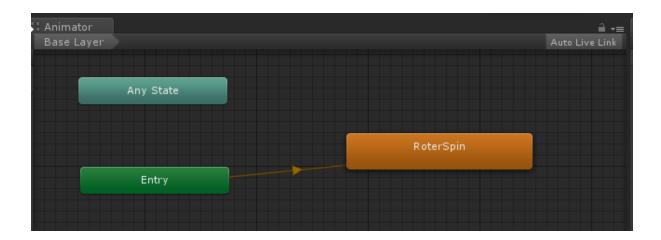


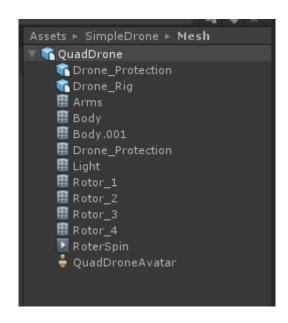




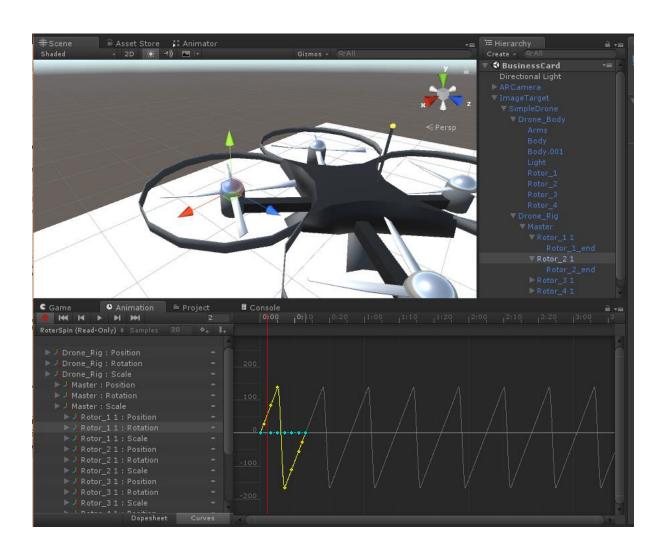


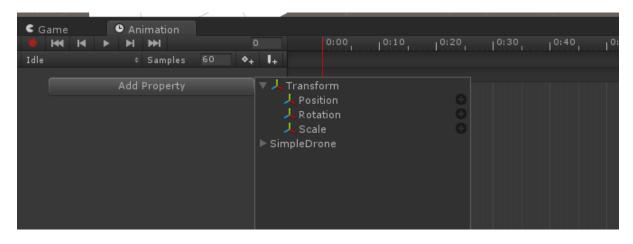


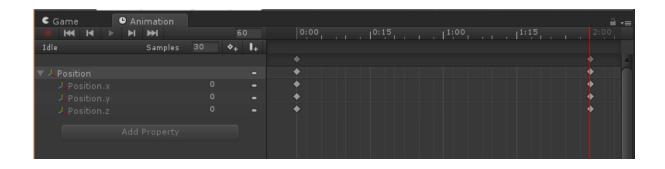


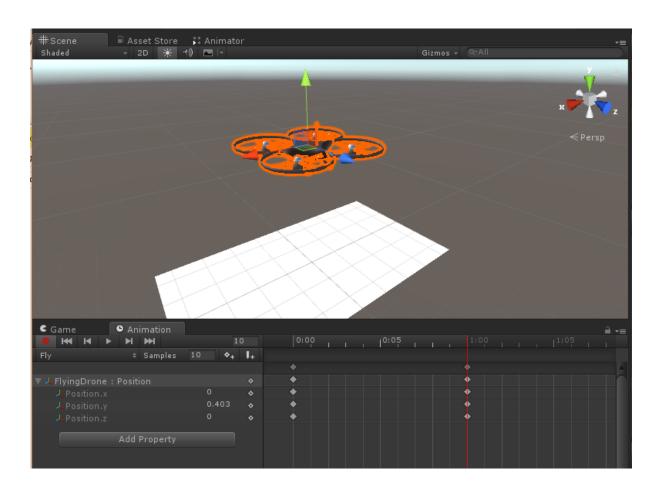


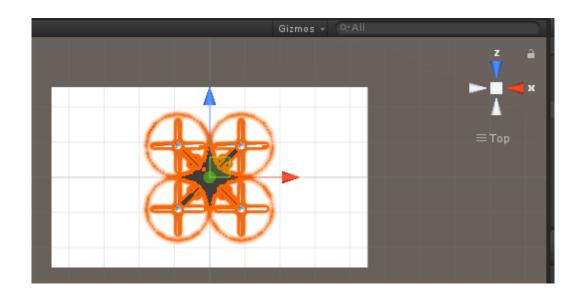


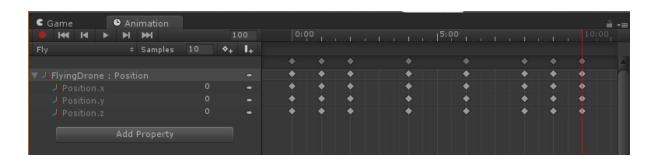


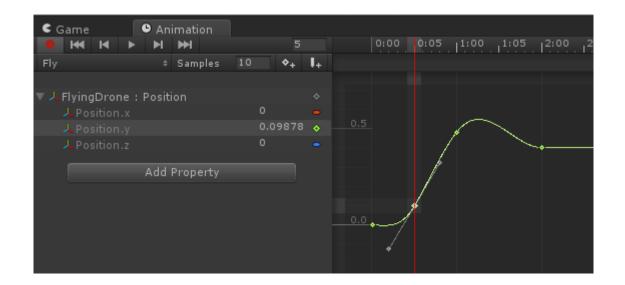


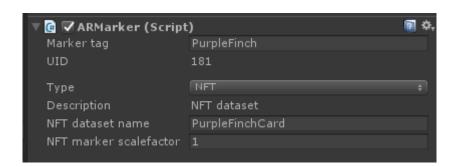


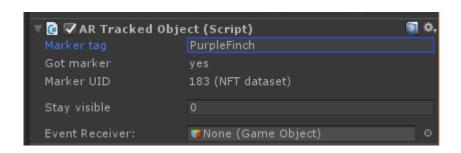


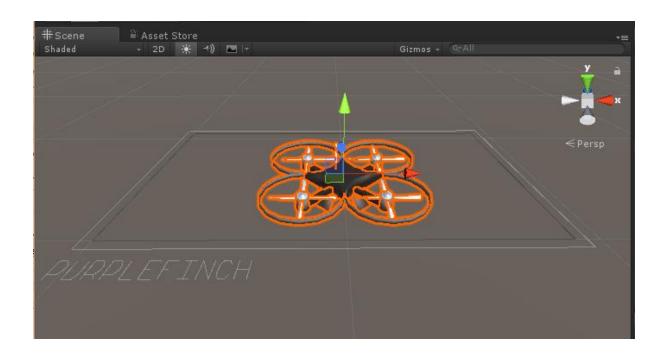


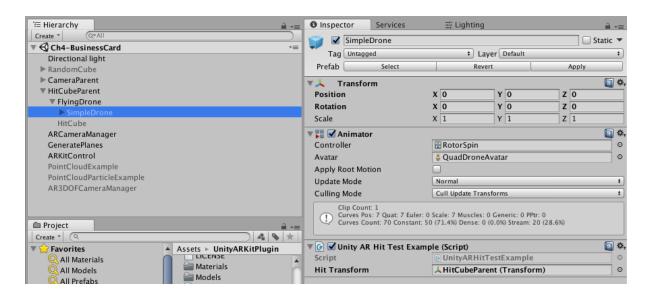




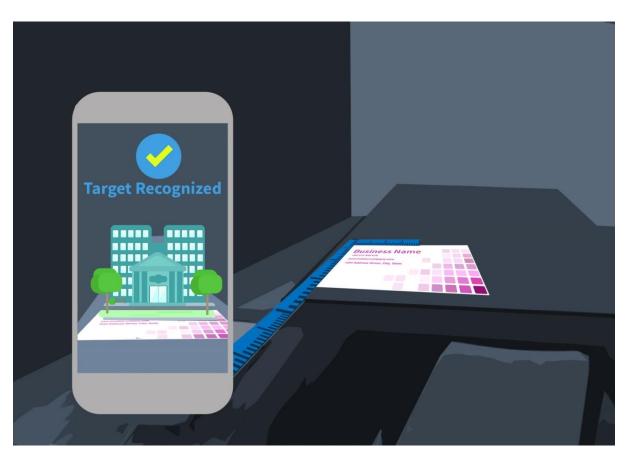










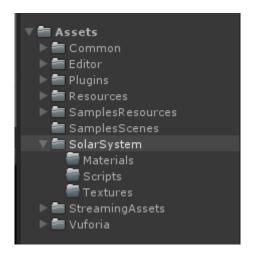


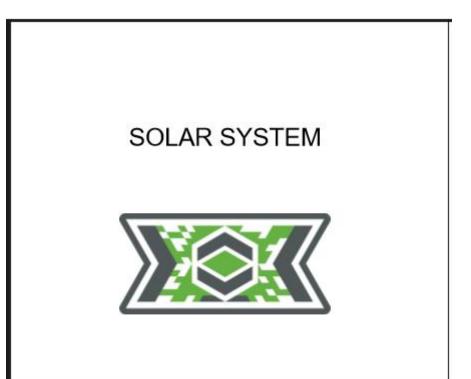
Chapter 5: AR Solar System

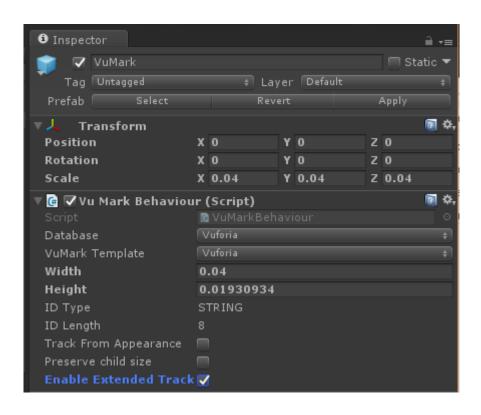


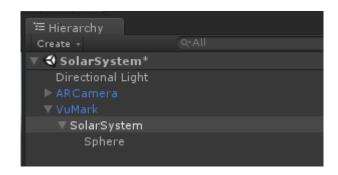
Planetary Fact Sheet - Metric

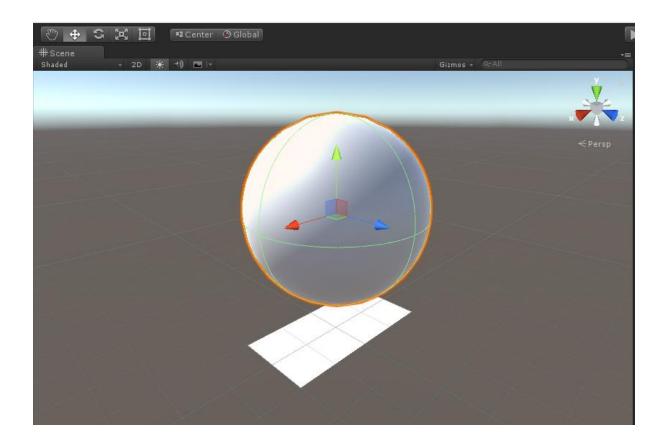
	MERCURY	VENUS	EARTH	MOON	MARS	JUPITER	SATURN	URANUS	NEPTUNE	PLUTO
Mass (10 ²⁴ kg)	0.330	4.87	5.97	0.073	0.642	1898	568	86.8	102	0.0146
<u>Diameter</u> (km)	4879	12,104	12,756	3475	6792	142,984	120,536	51,118	49,528	2370
Density (kg/m ³)	5427	5243	5514	3340	3933	1326	687	1271	1638	2095
Gravity (m/s ²)	3.7	8.9	9.8	1.6	3.7	23.1	9.0	8.7	11.0	0.7
Escape Velocity (km/s)	4.3	10.4	11.2	2.4	5.0	59.5	35.5	21.3	23.5	1.3
Rotation Period (hours)	1407.6	-5832.5	23.9	655.7	24.6	9.9	10.7	-17.2	16.1	-153.3
Length of Day (hours)	4222.6	2802.0	24.0	708.7	24.7	9.9	10.7	17.2	16.1	153.3
<u>Distance from Sun</u> (10 ⁶ km)	57.9	108.2	149.6	0.384*	227.9	778.6	1433.5	2872.5	4495.1	5906.4
Perihelion (10 ⁶ km)	46.0	107.5	147.1	0.363*	206.6	740.5	1352.6	2741.3	4444.5	4436.8
Aphelion (10 ⁶ km)	69.8	108.9	152.1	0.406*	249.2	816.6	1514.5	3003.6	4545.7	7375.9
Orbital Period (days)	88.0	224.7	365.2	27.3	687.0	4331	10,747	30,589	59,800	90,560
Orbital Velocity (km/s)	47.4	35.0	29.8	1.0	24.1	13.1	9.7	6.8	5.4	4.7
Orbital Inclination (degrees)	7.0	3.4	0.0	5.1	1.9	1.3	2.5	0.8	1.8	17.2
Orbital Eccentricity	0.205	0.007	0.017	0.055	0.094	0.049	0.057	0.046	0.011	0.244
Obliquity to Orbit (degrees)	0.01	177.4	23.4	6.7	25.2	3.1	26.7	97.8	28.3	122.5
Mean Temperature (C)	167	464	15	-20	-65	-110	-140	-195	-200	-225
Surface Pressure (bars)	0	92	1	0	0.01	Unknown*	Unknown*	Unknown*	Unknown*	0.00001
Number of Moons	0	0	1	0	2	67	62	27	14	5
Ring System?	No	No	No	No	No	Yes	Yes	Yes	Yes	No
Global Magnetic Field?	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Unknown
	MERCURY	VENUS	EARTH	MOON	MARS	JUPITER	SATURN	URANUS	NEPTUNE	PLUTO

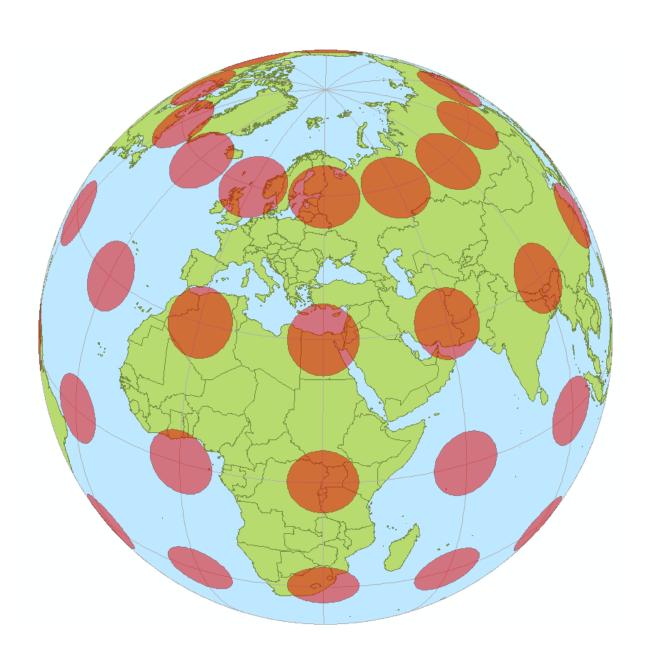


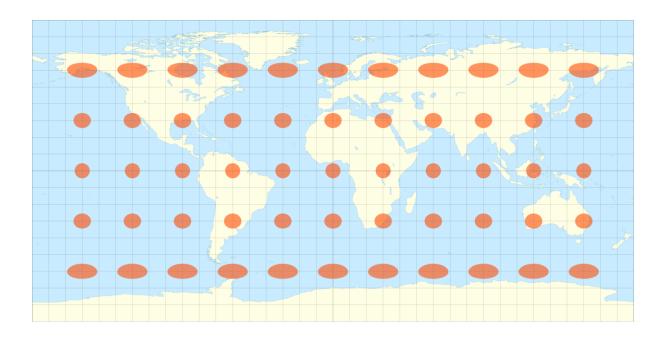






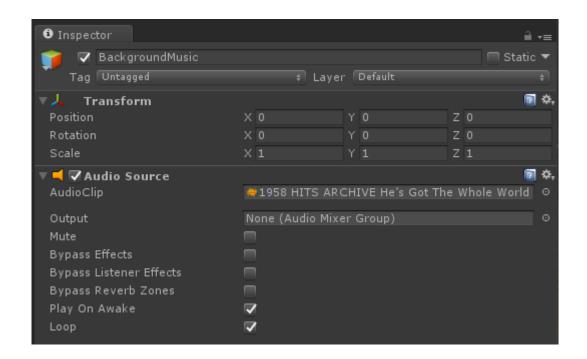


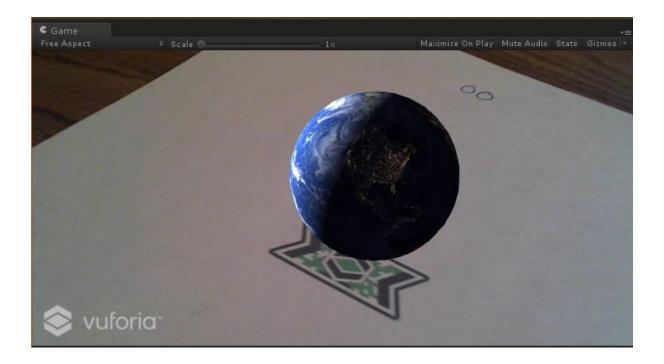




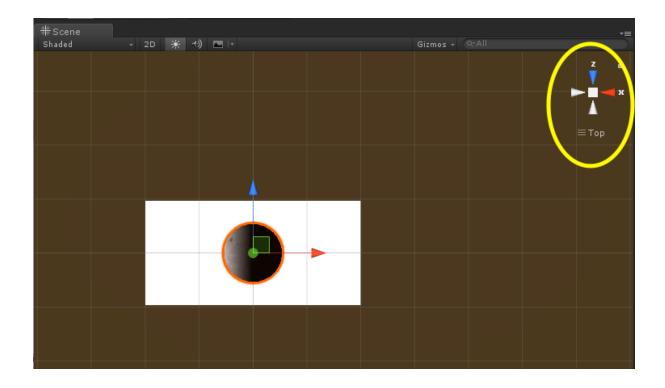




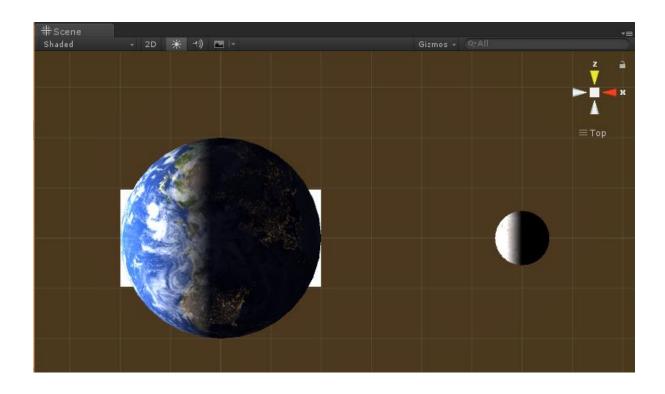




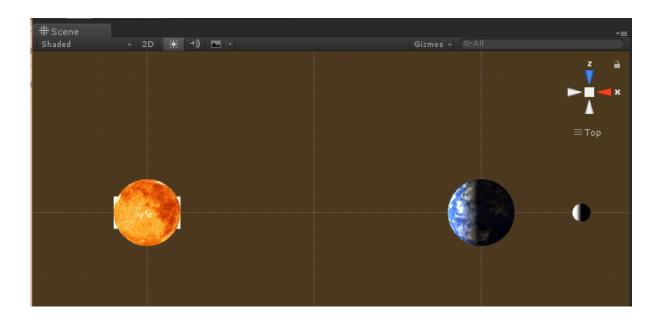


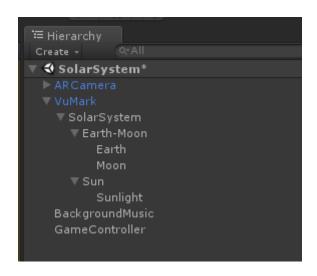


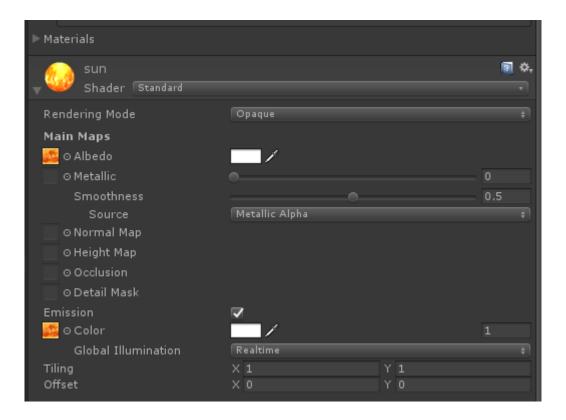


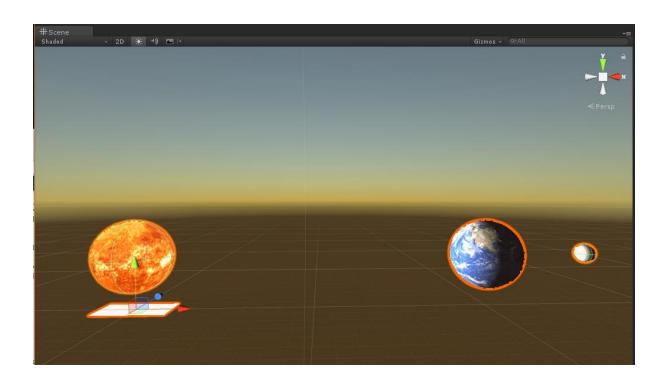




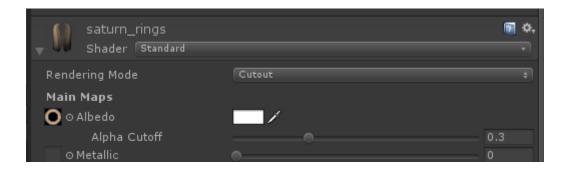


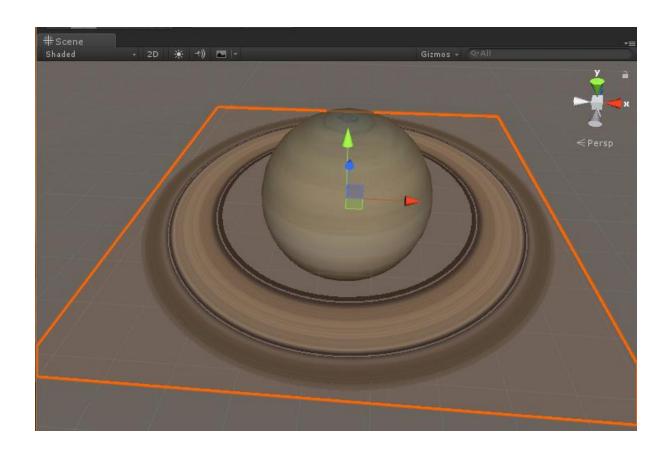


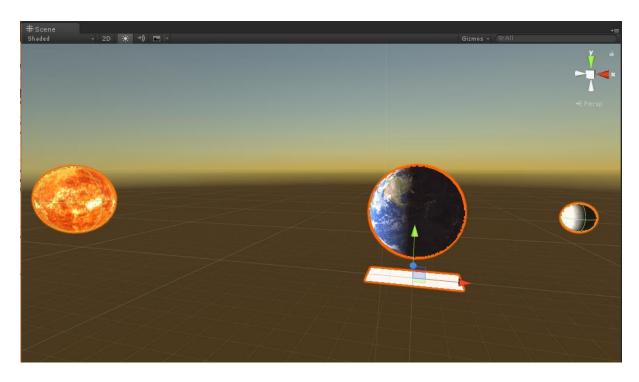












SOLAR SYSTEM



MERCURY

Diameter: 4879 km
Distance from Sun: 57.9 million km
Length of day: 4222.6 hours
Length of year: 88.0 days



VENUS

Diameter: 12,104 km
Distance from Sun: 108.2 million km
Length of day: 2802.0 hours
Length of year: 224.7 days



EARTH

Diameter: 12,756 km

Distance from Sun: 149.6 million km

Length of day: 24 hours

Length of year: 365.25 days



MARS

Diameter: 6792 km

Distance from Sun: 227.9 million km

Length of day: 24.7 hours

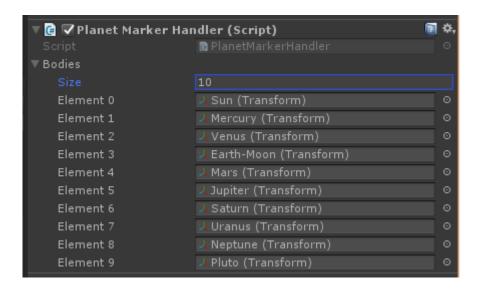
Length of year: 687.0 days

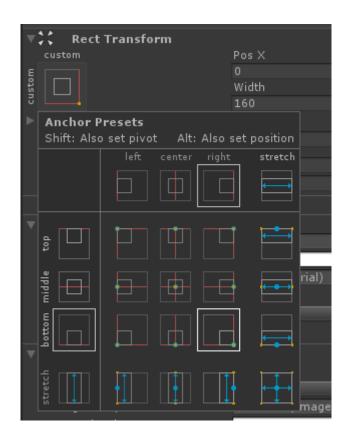


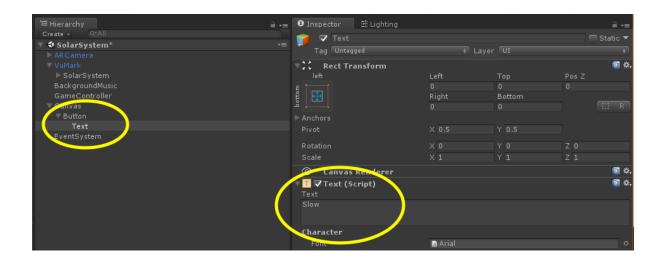
JUPITER

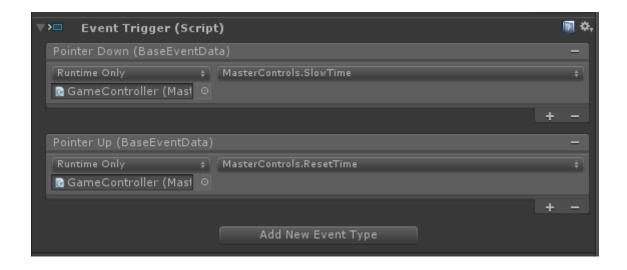
Diameter: 142,984 km
Distance from Sun: 778.6 million km
Length of day: 9.9 hours
Length of year: 4331 days

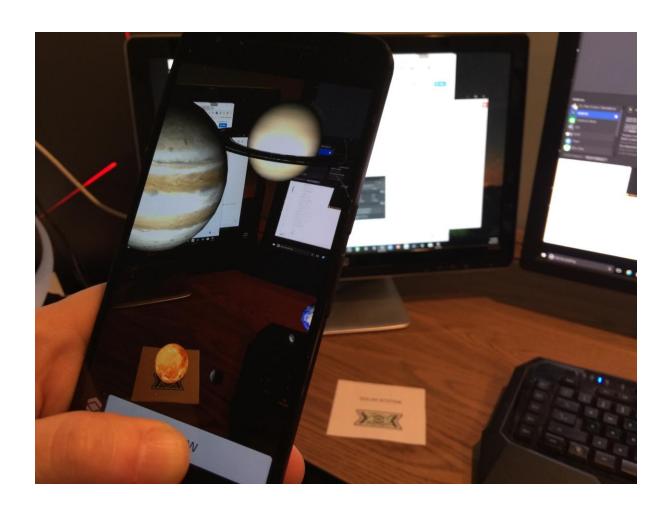




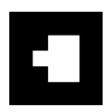








SOLAR SYSTEM



MERCURY

Diameter: 4879 km
Distance from Sun: 57.9 million km
Length of day: 4222.6 hours
Length of year: 88.0 days



VENUS

Diameter: 12,104 km
Distance from Sun: 108.2 million km
Length of day: 2802.0 hours
Length of year: 224.7 days



EARTH

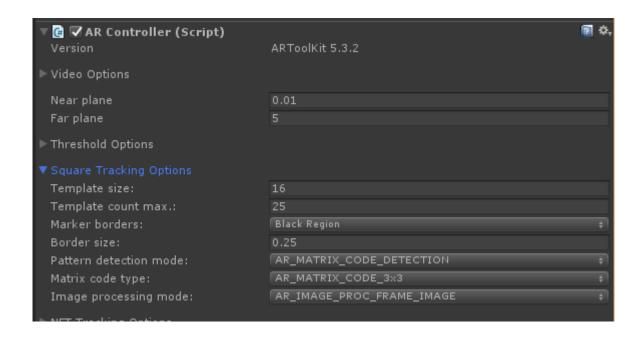
Diameter: 12,756 km

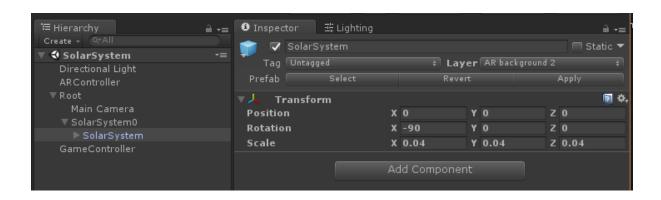
Distance from Sun: 149.6 million km

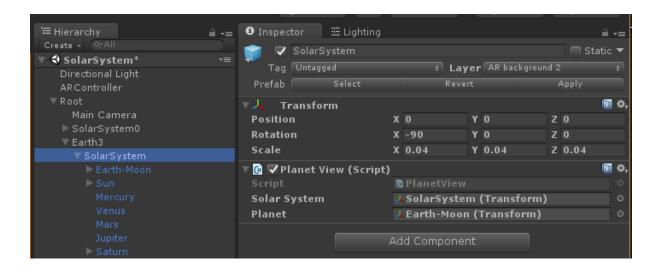
Length of day: 24 hours

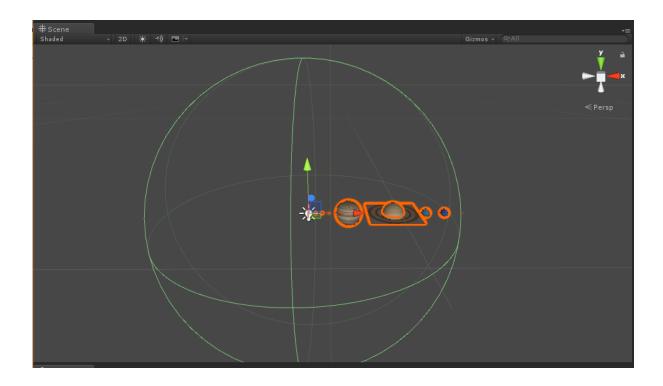
Length of year: 365.25 days

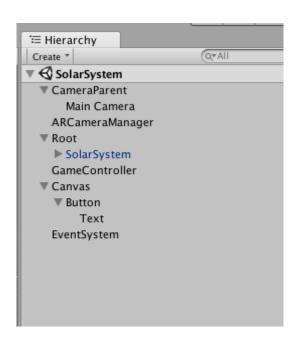




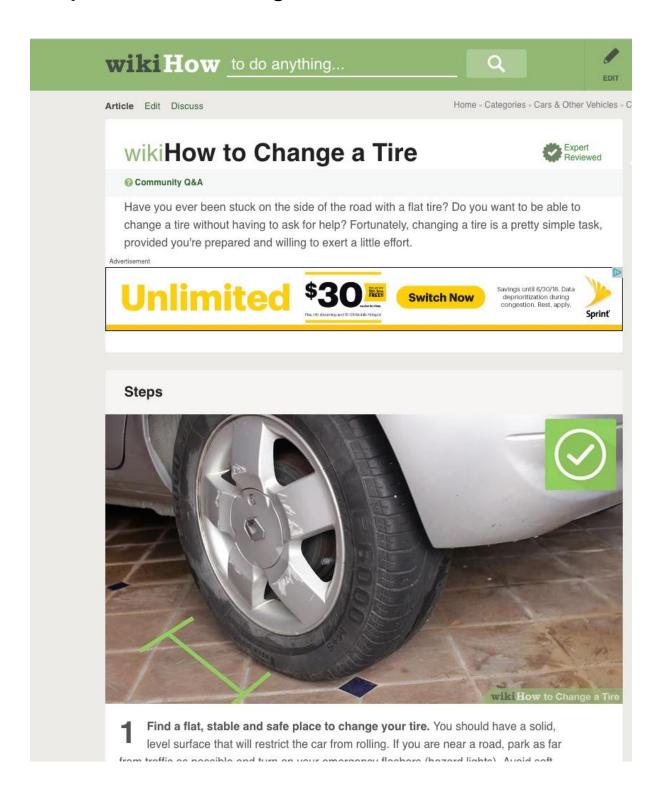








Chapter 6: How to Change a Flat Tire





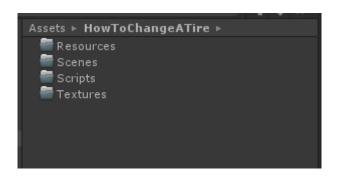
Find a flat, stable and safe place to change your tire.

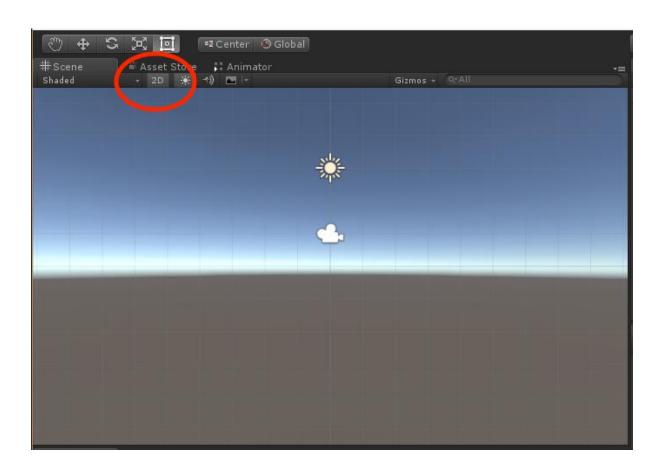


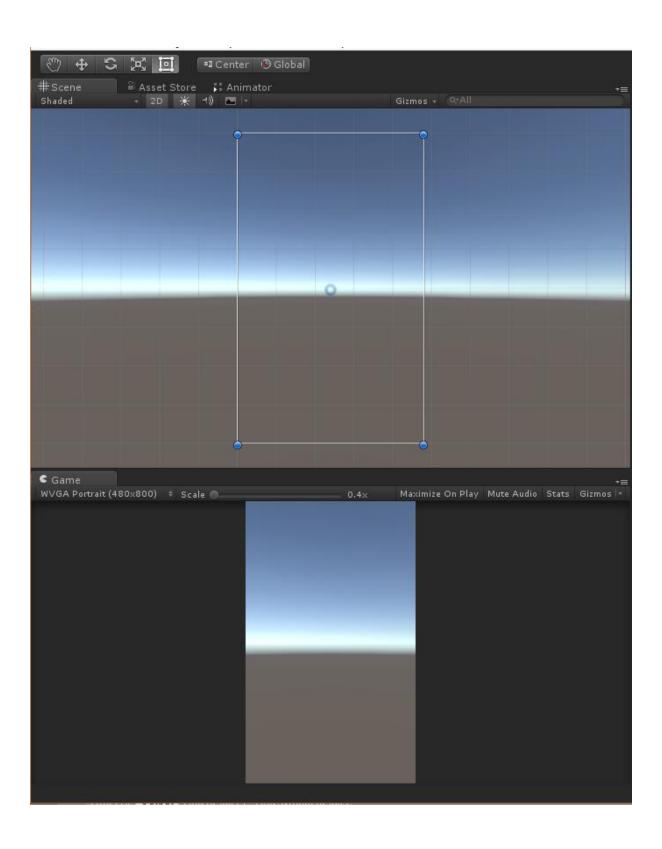
You should have a solid, level surface that will restrict the car from rolling. If you are near a road, park as far from traffic as possible and turn on your emergency flashers (hazard lights). Avoid soft ground and hills.

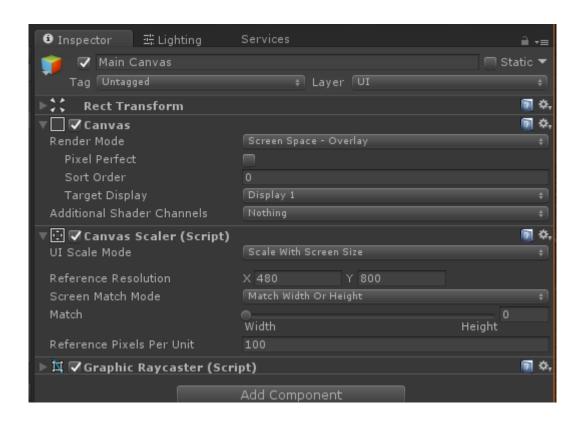


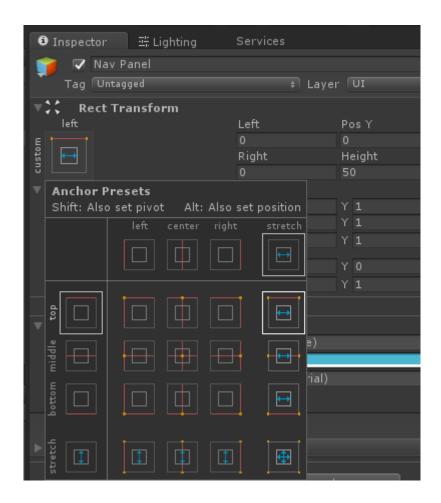
1	Step	Title	Text	Image	Video	Graphic
2	0	How to Change a Tire	Have you ever been stuck on the side of the road with a flat tire? Do you want to be able to change a tire without having to ask for help? Fortunately, changing a tire is a pretty simple task, provided you're prepared and willing to exert a little effort.			
3	1	Find a flat, stable and safe place to change your tire.	You should have a solid, level surface that will restrict the car from rolling. If you are near a road, park as far from traffic as possible and turn on your emergency flashers (hazard lights). Avoid soft ground and hills.	step1		
4	2	Apply the parking brake and put car into "Park" position.	If you have a standard transmission, put your vehicle in first or reverse.		step2-video	
5	3	Block other tires	Place a heavy object (e.g., rock, concrete, spare wheel, etc.) in front of the front and back tires.		step3-video	

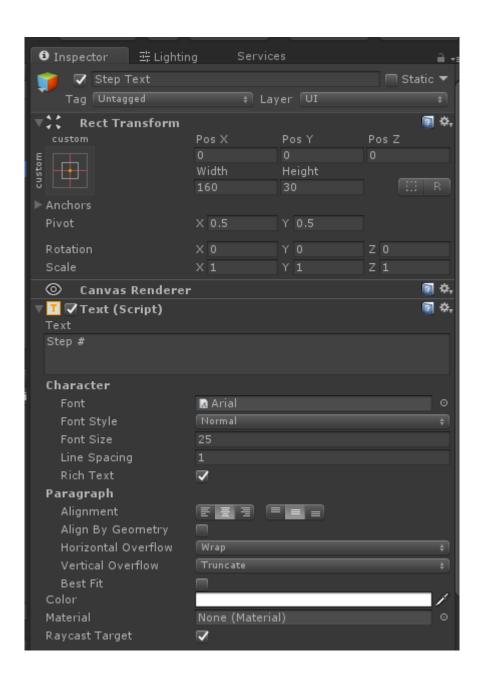


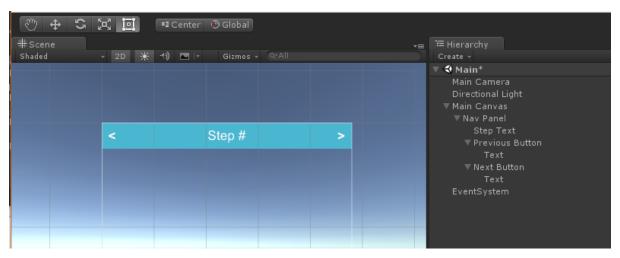


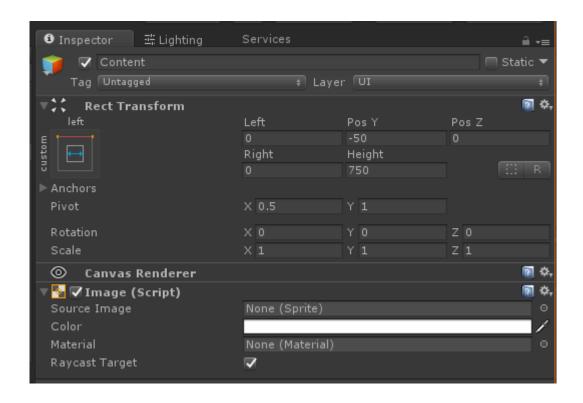




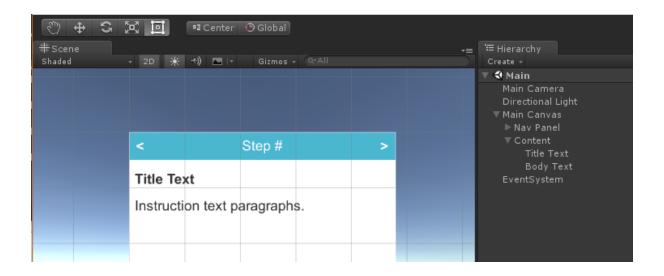




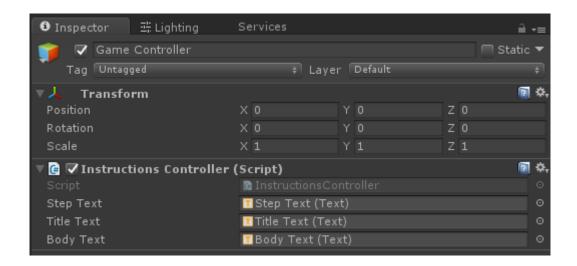


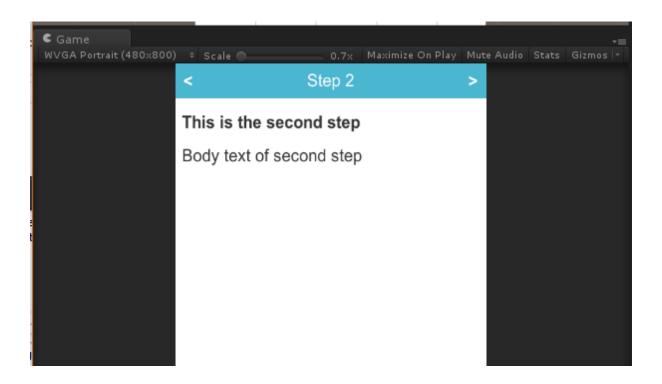


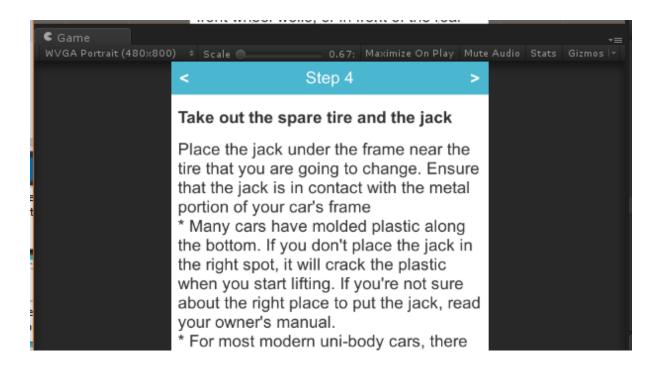


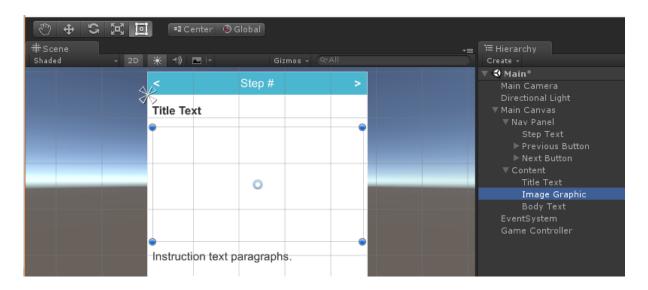


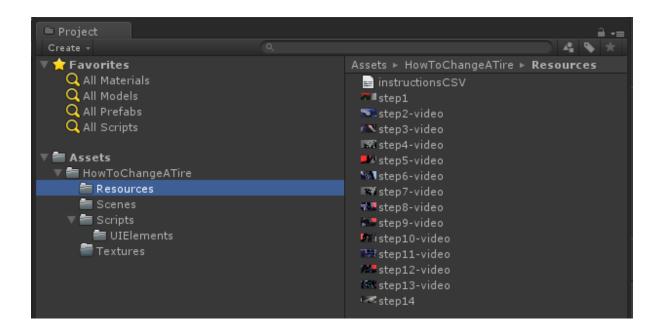




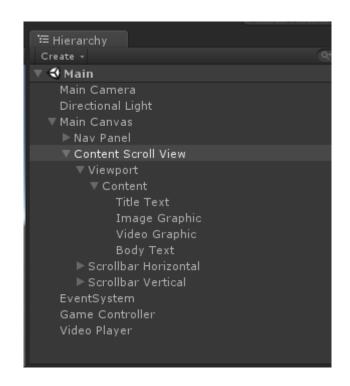










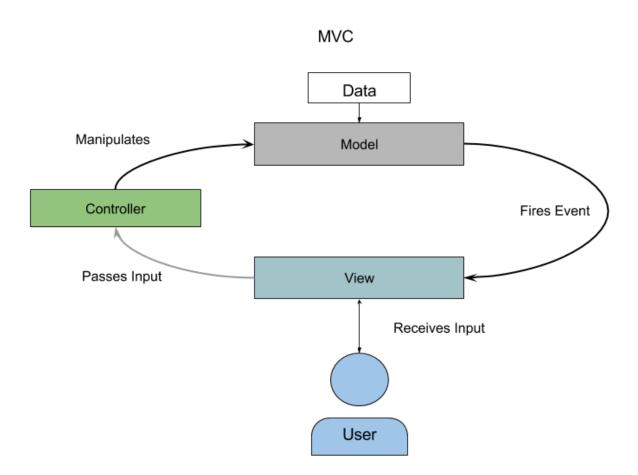




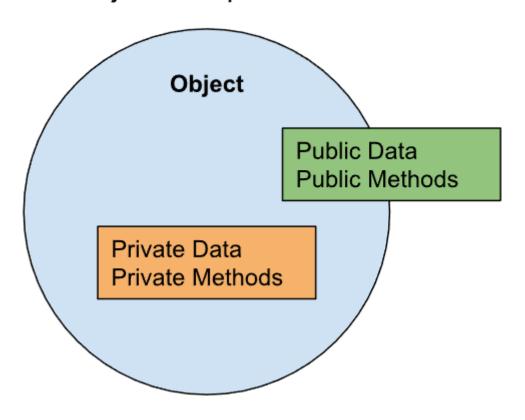
Take out the spare tire and the jack



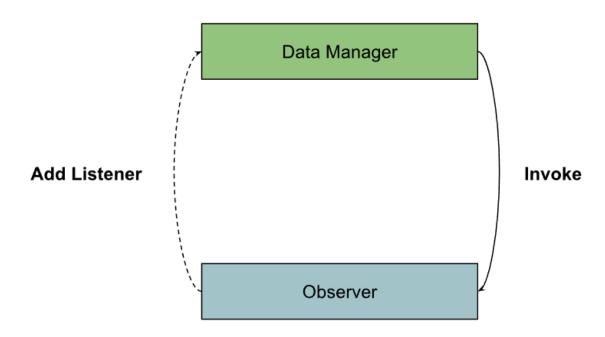
Place the jack under the frame near the tire that you are going to change.
Ensure that the jack is in contact with the metal portion of your car's frame
* Many cars have molded plastic along the bottom. If you don't place the jack in the right spot, it will crack the plastic when you start lifting. If you're not sure about the right place to put the jack, read your owner's manual



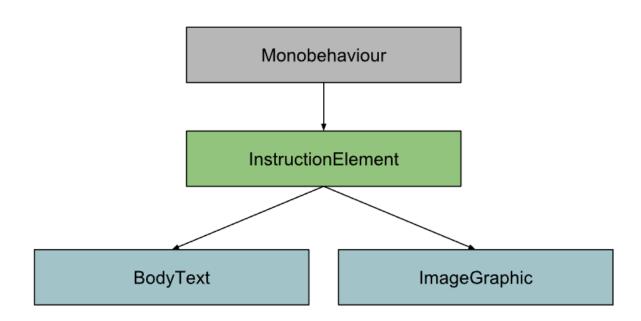
Object Encapsulation



Event Observer Pattern

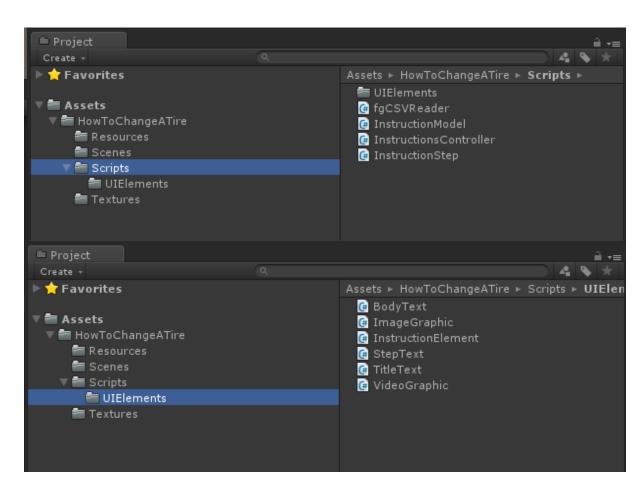


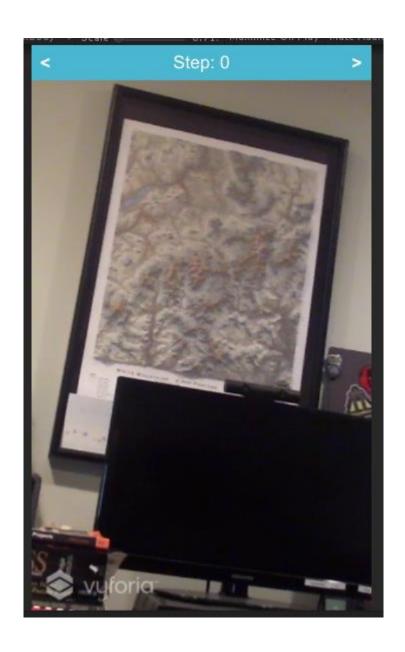
Inheritance

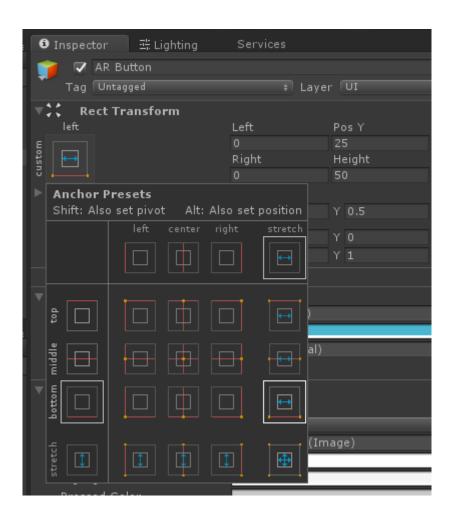


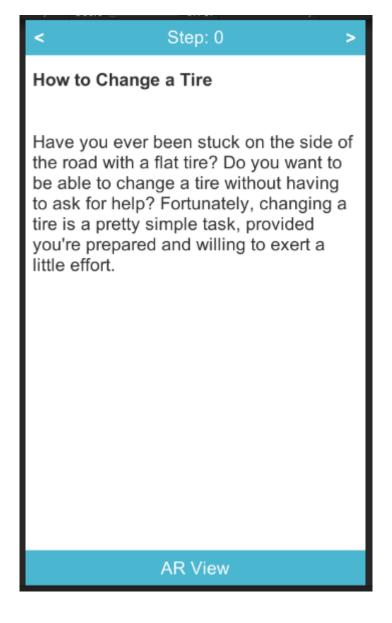
Chapter 7: Augmenting the Instruction Manual



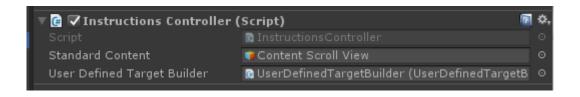


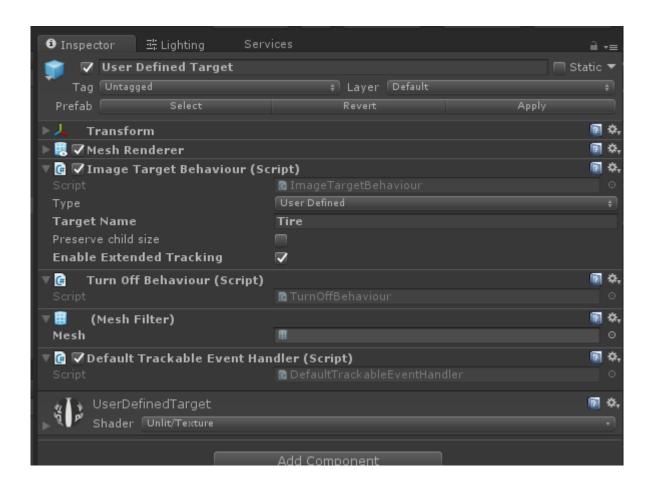


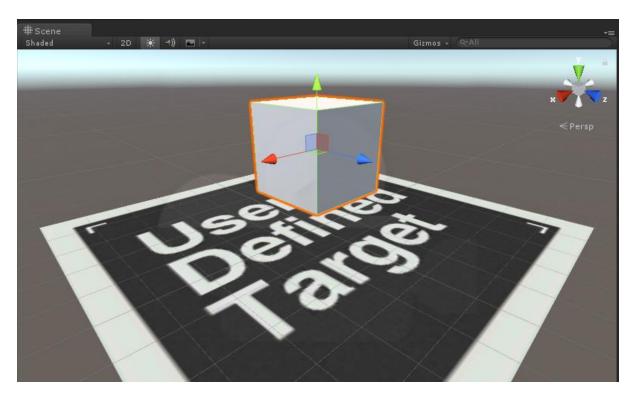


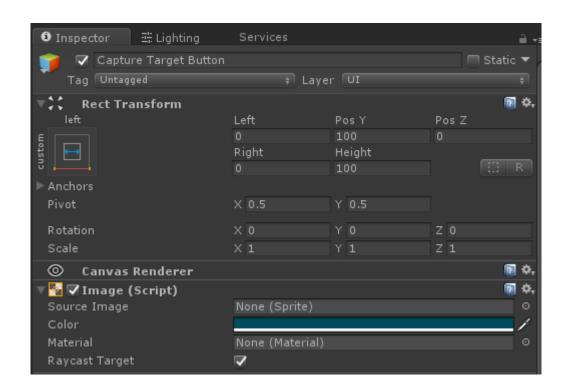




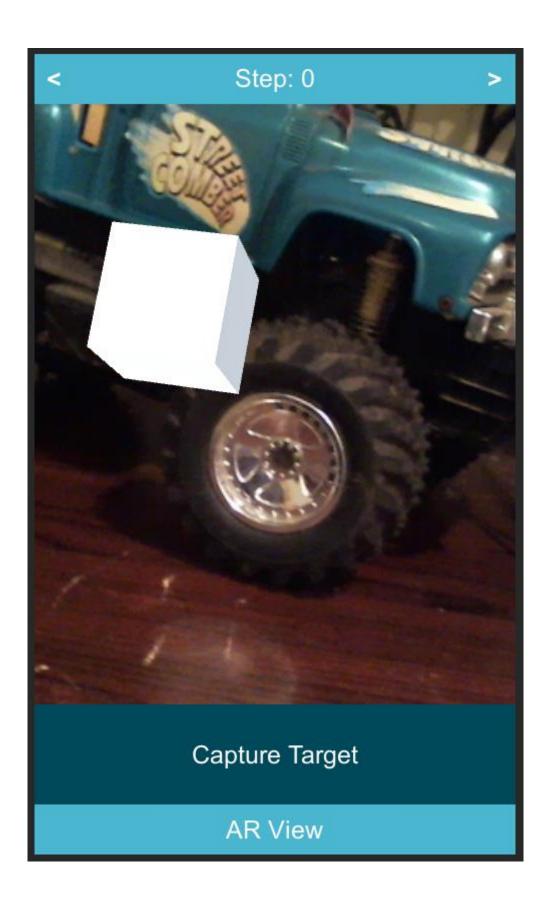


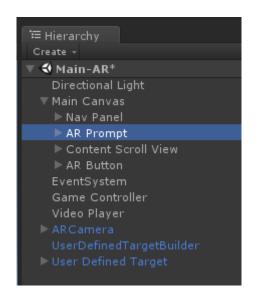


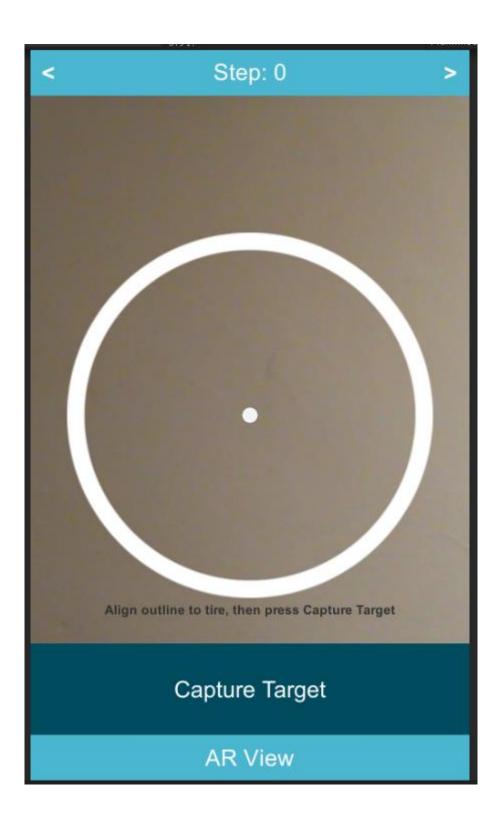


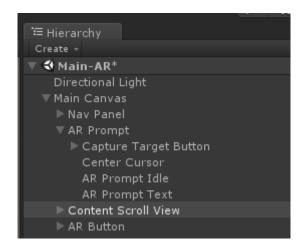


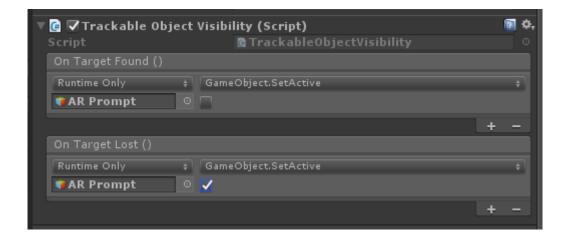


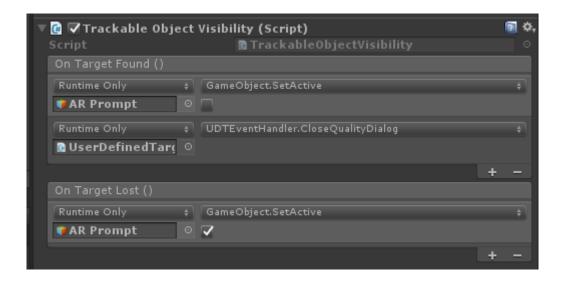


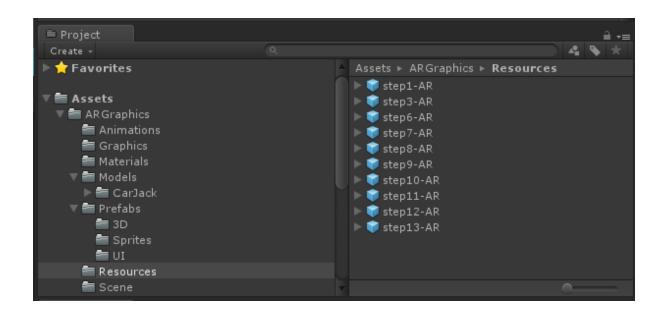


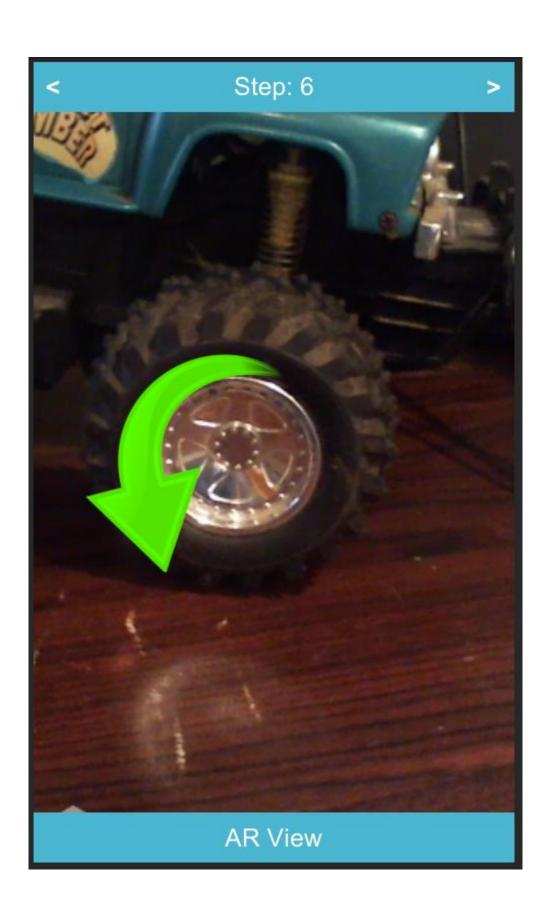


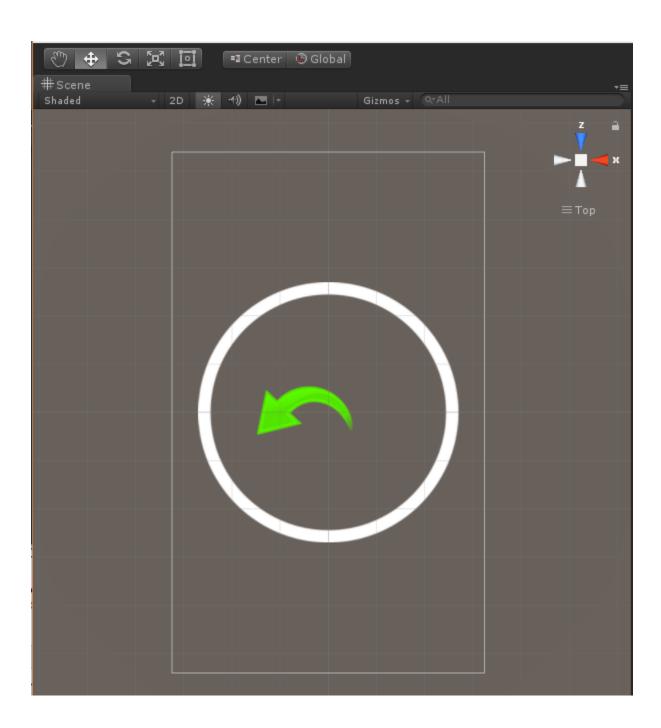


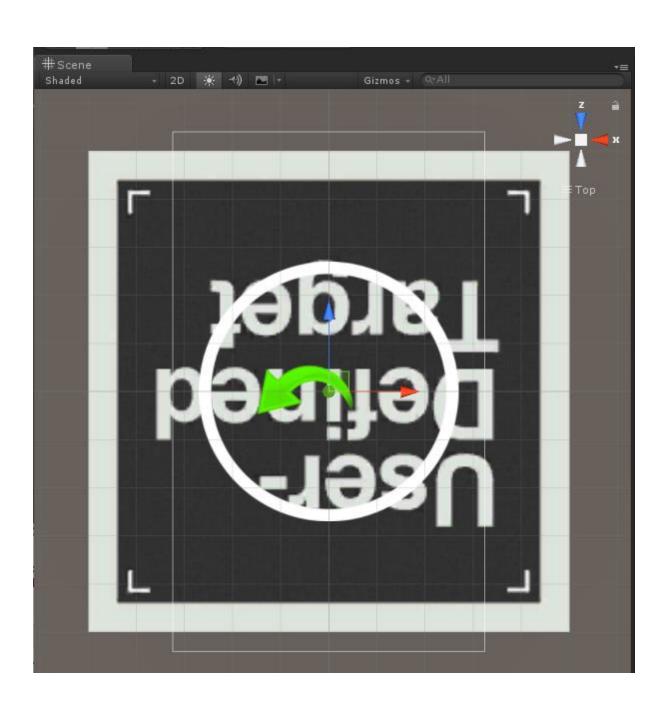


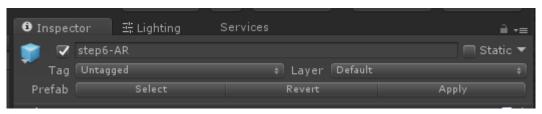


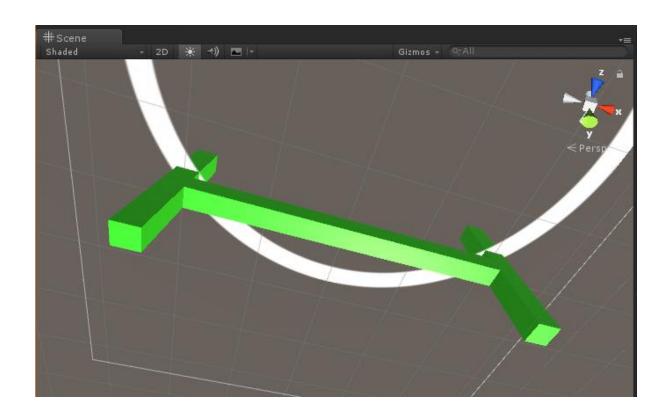




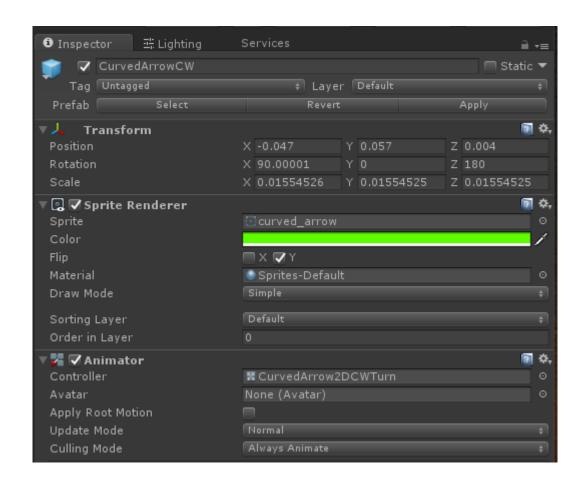


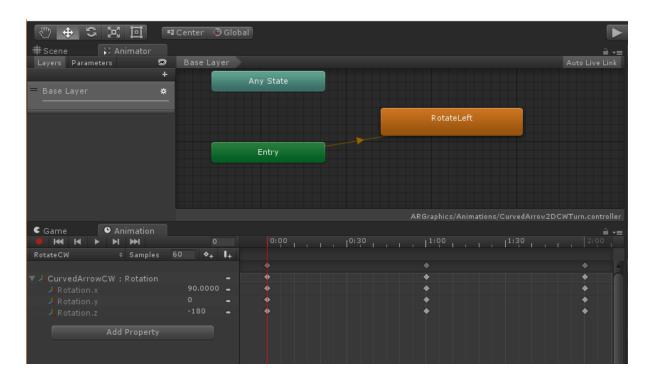


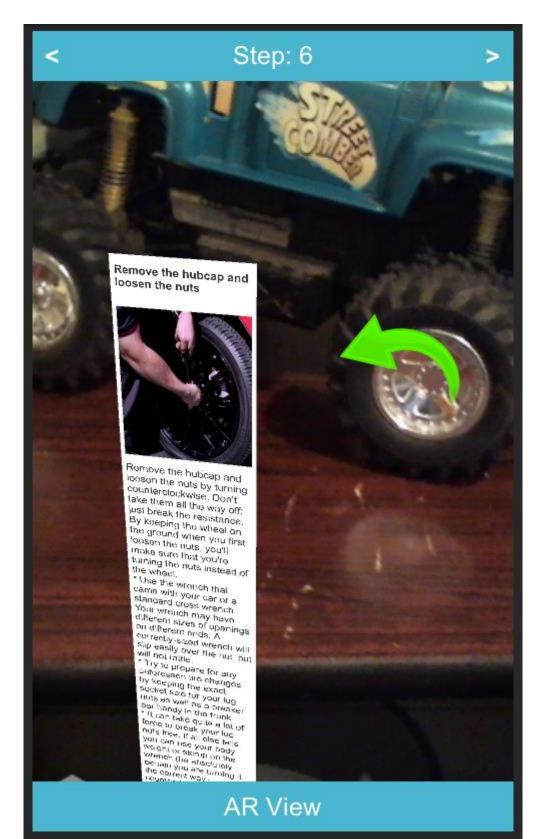


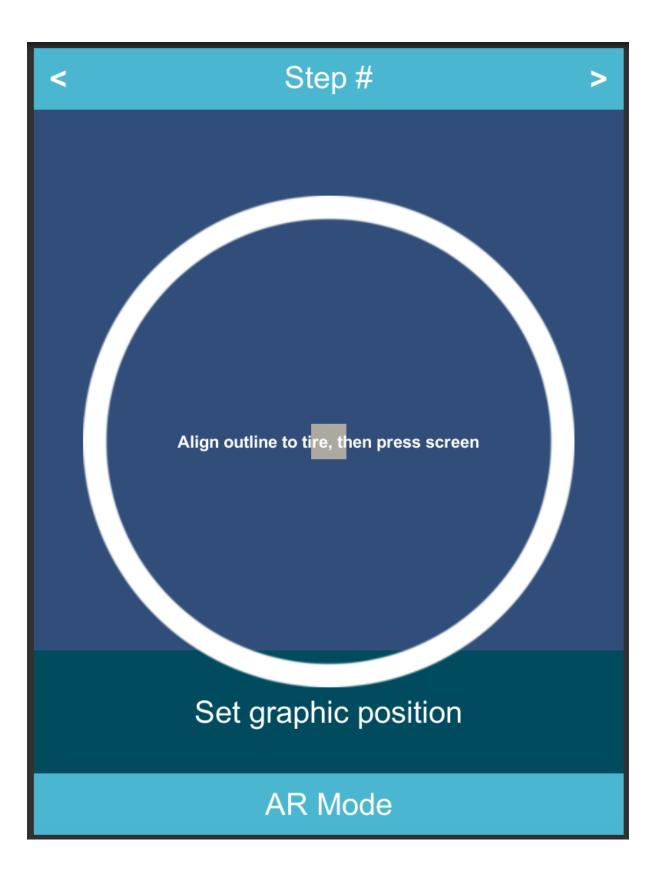




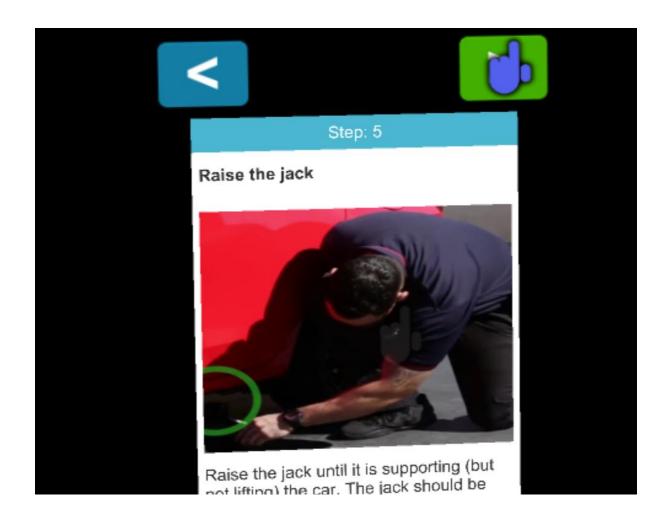


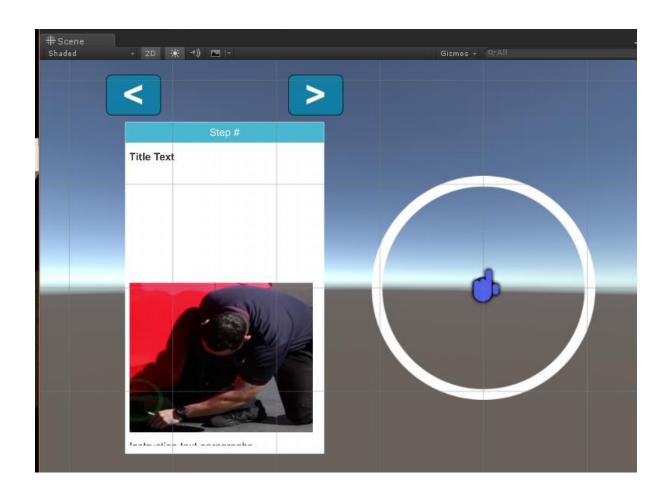


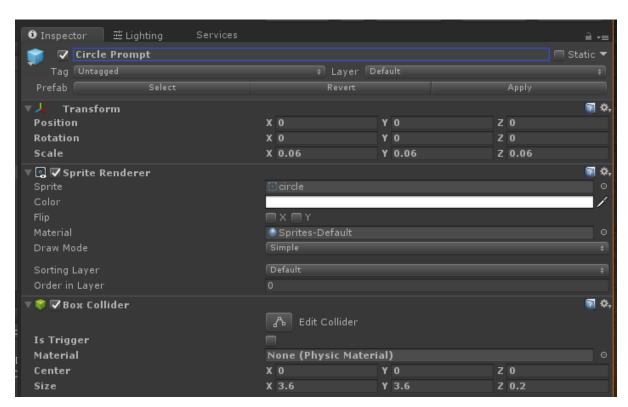


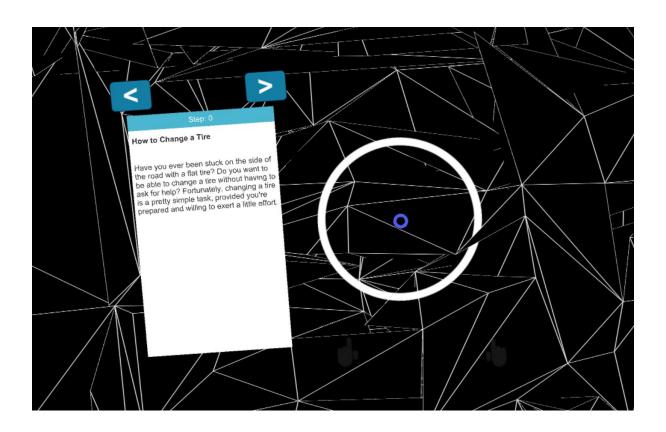


'≔ Hierarchy Create * **▼ ≰** Main-arkit Directional Light Nav Panel ► Content Scroll View ► ARButton Anchor Button AR Prompt EventSystem Game Controller Video Player ▼ CameraParent Main Camera ARCameraManager **▼** Root Cube ► Augmented Instructions ARKitRemoteConnection



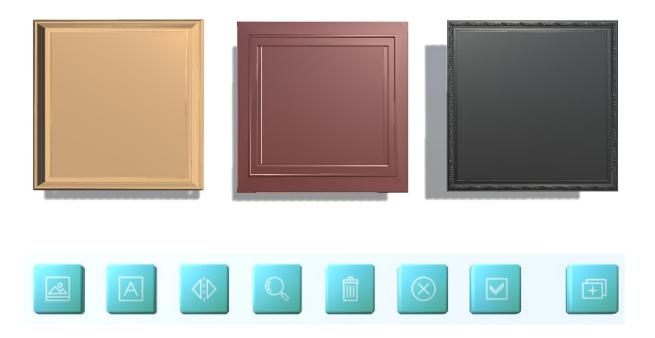


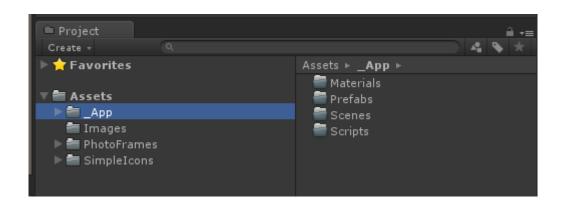






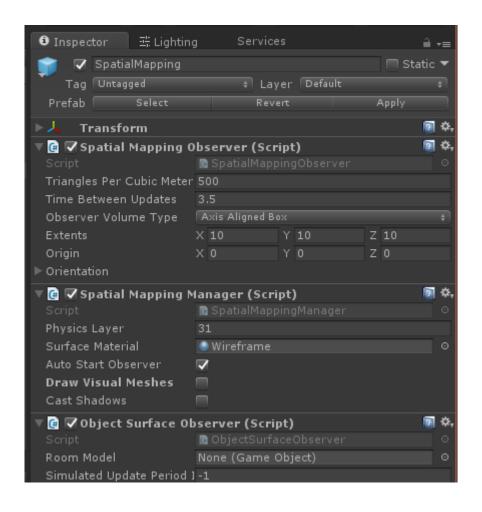
Chapter 8: Room Decoration with AR





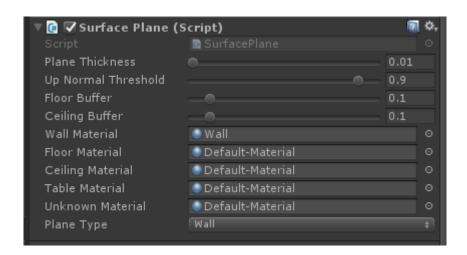


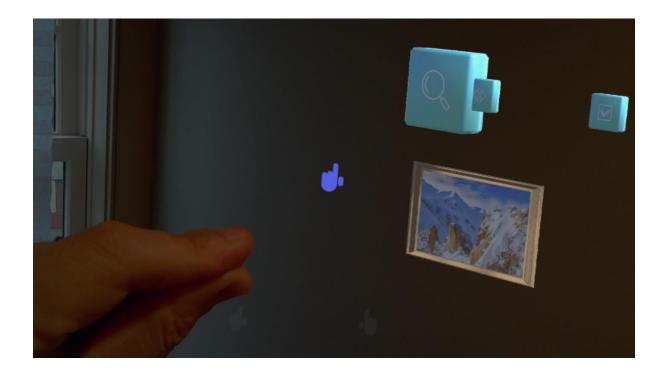




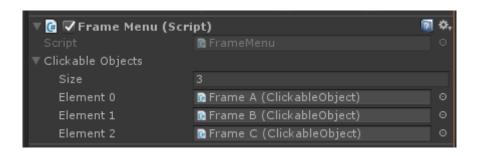


▼ 🖪 🗸 Surface Meshes To Planes (Script)		2	٠,
Script	■ SurfaceMeshesToPlanes		
▼ Active Planes			
Size	0		
Surface Plane Prefab	§ SurfacePlane		
Min Area	0.025		
Draw Planes	Wall		
Destroy Planes	Unknown		

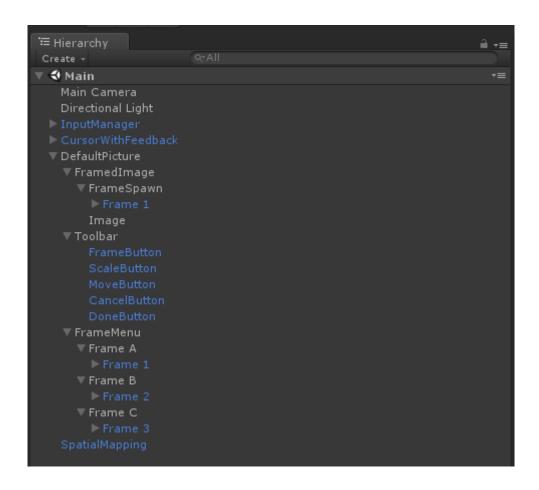


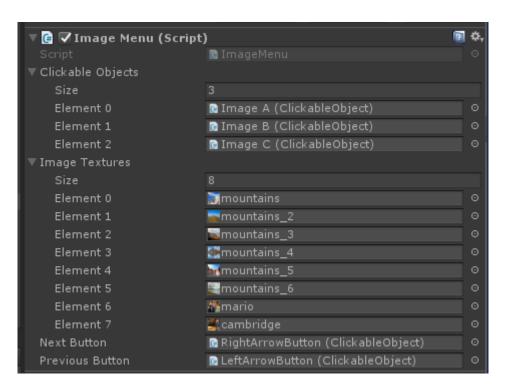




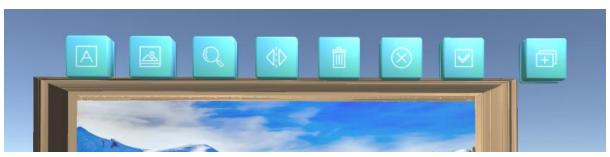




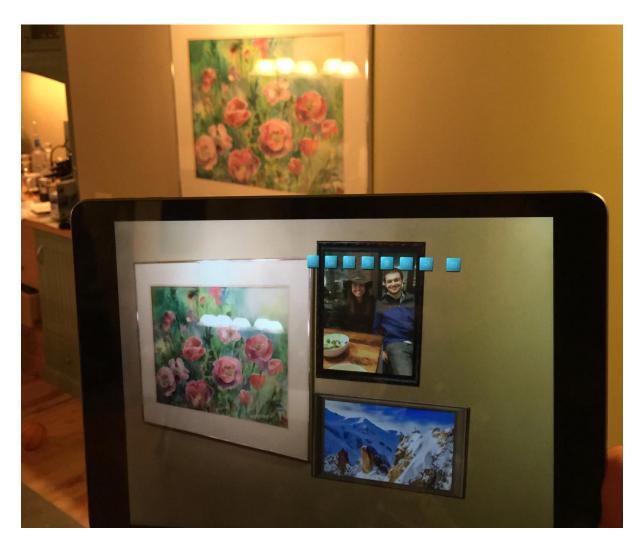




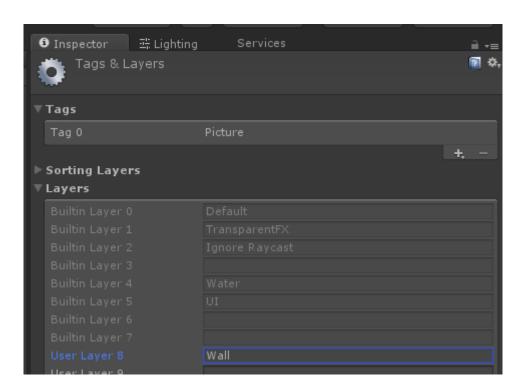














Chapter 9: Poke the Ball Game

