Learning AWS Lumberyard Game Development

Chapter 1: Welcome to the Lumberyard



Amazon Lumberyard

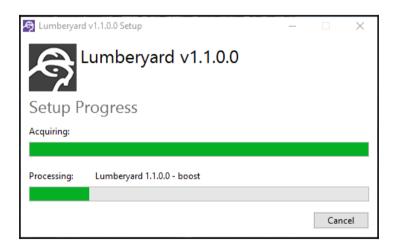
Amazon Lumberyard is a free, cross-platform, 3D game engine for you to create the highest-quality games, connect your games to the vast compute and storage of the AWS Cloud, and engage fans on Twitch. Includes full source.

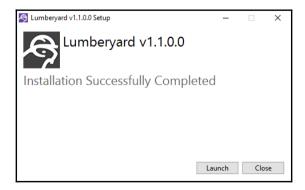
Download Lumberyard

- v1.1. Requires Windows 7 or later. File Size: 620KB /
- Download .zip version here
- Checksum (MD5): fdcdfba2194b204a6094fcbed1651652

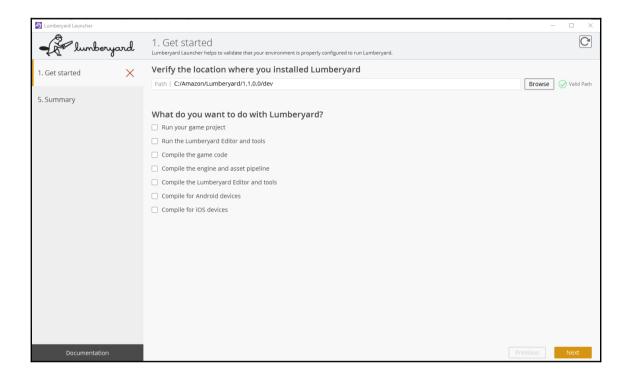
By downloading Amazon Lumberyard or any of the packages on this page, you agree to the AWS Customer Agreement and Lumberyard Service Terms.



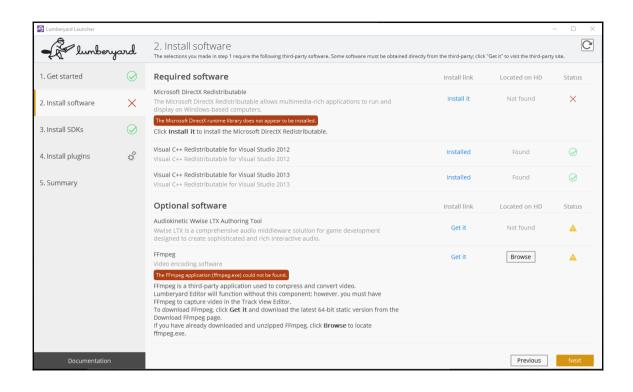


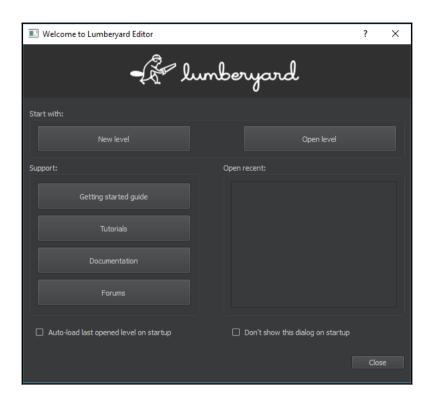


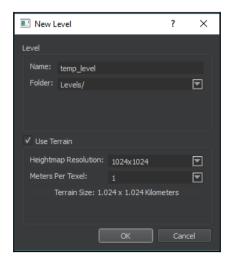


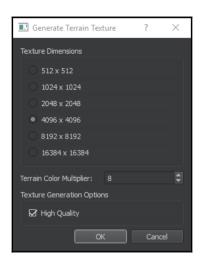


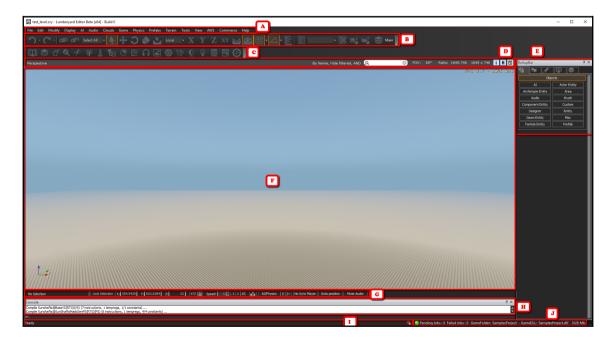




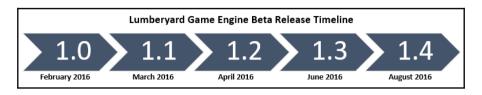


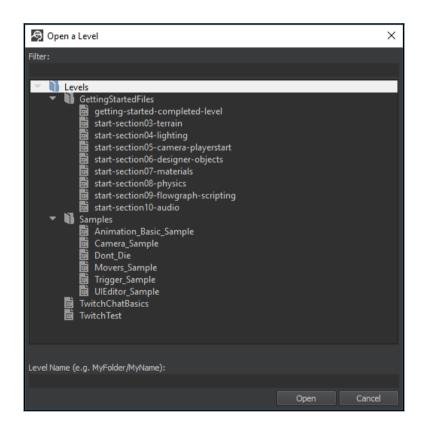




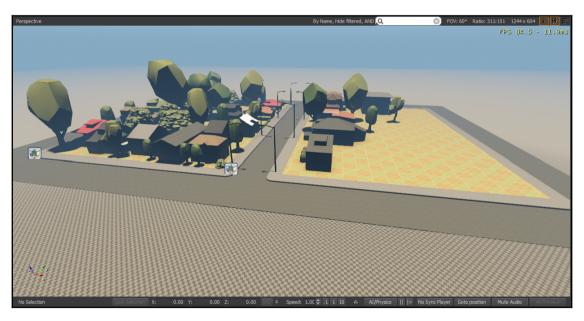


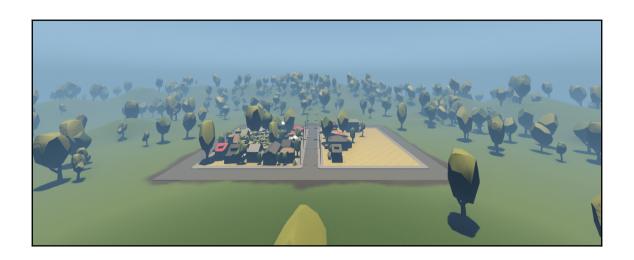
Chapter 2: Planning Your Game in the Lumberyard



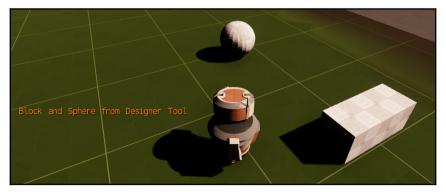


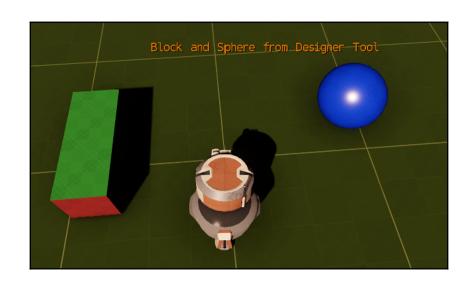


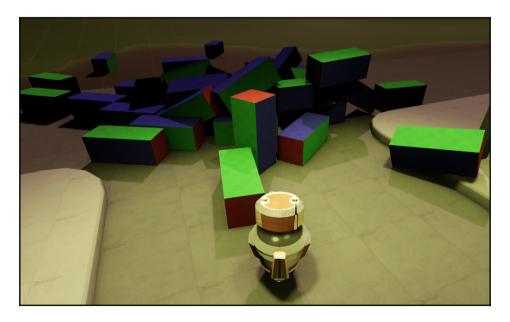


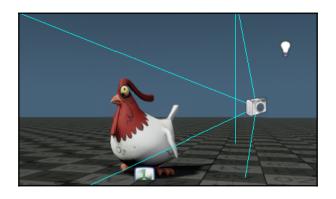








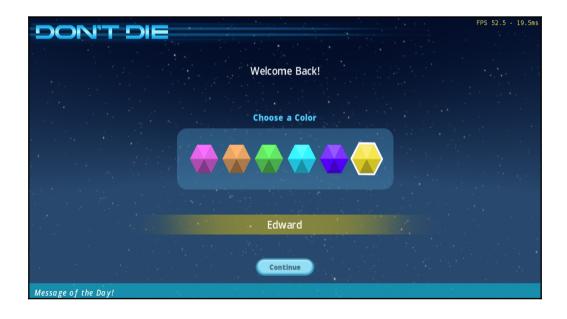




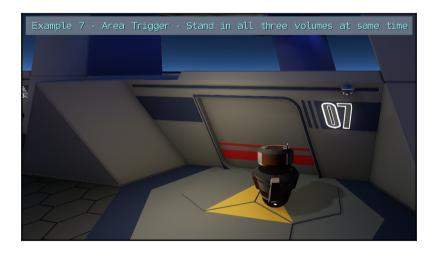
Press to cycle basic camera demo (keyboard=5).

Press to cycle balloon cameras (keyboard=6).

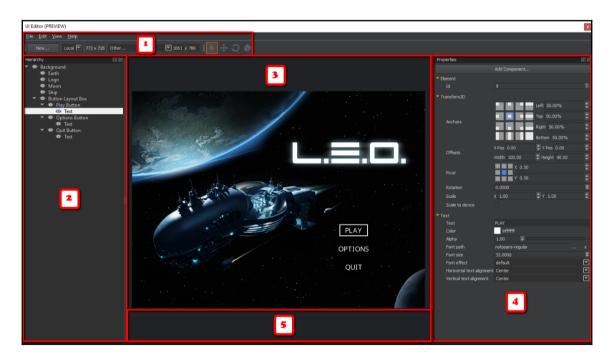
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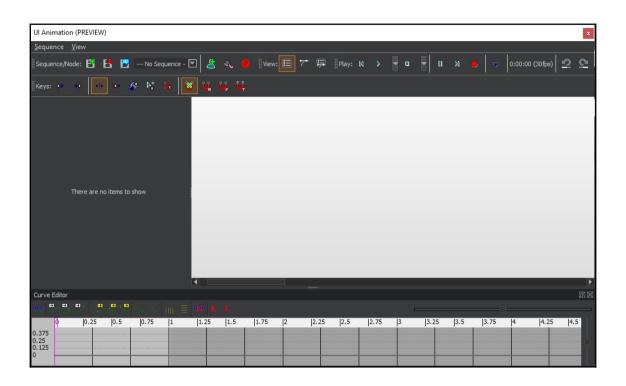


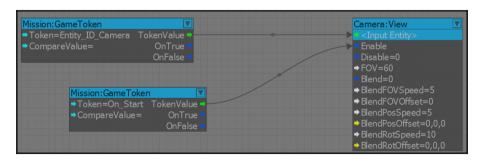


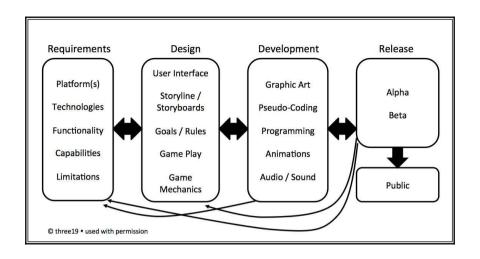




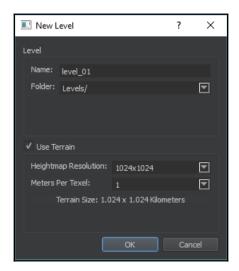




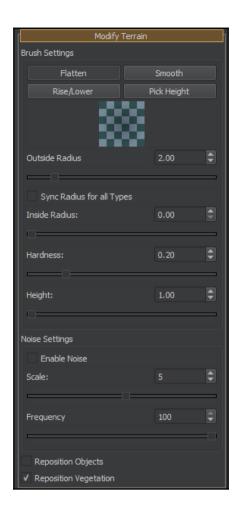




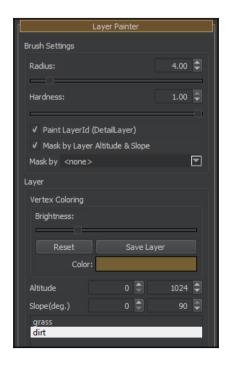




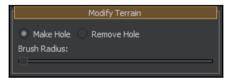






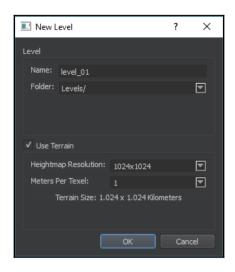


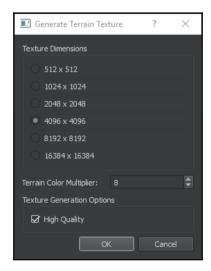




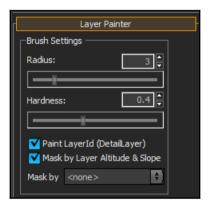


Chapter 3: Constructing an Immersive 3D Game World

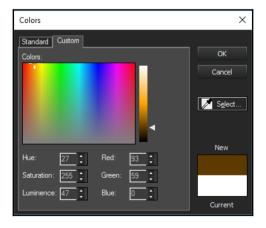




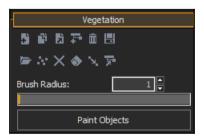






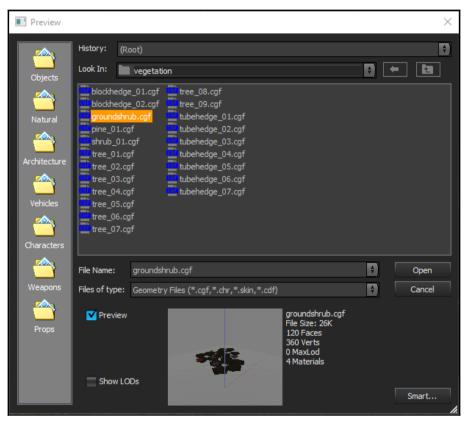


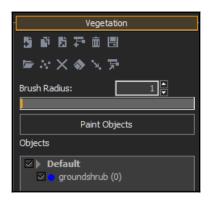




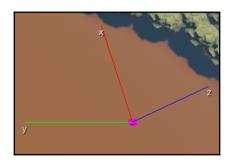


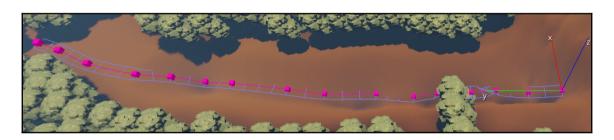




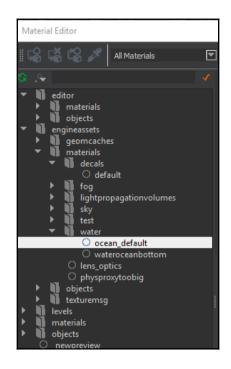




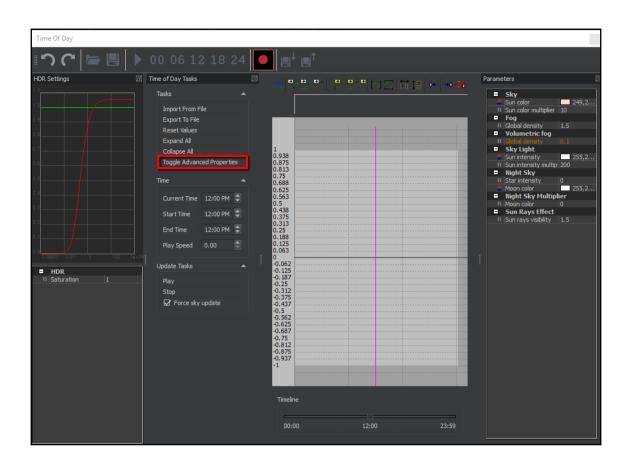




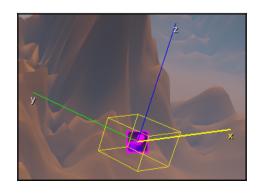








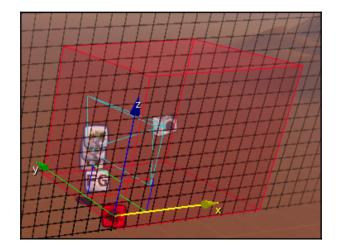


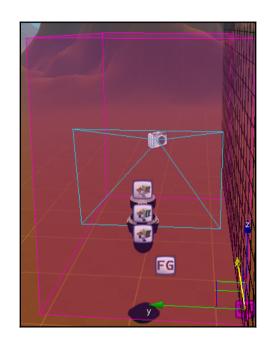


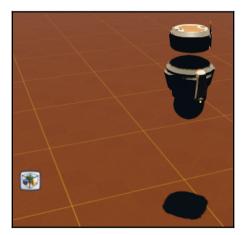








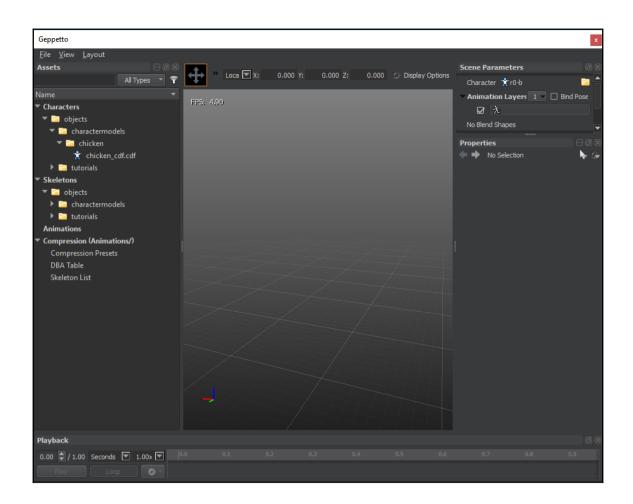


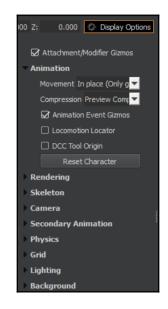


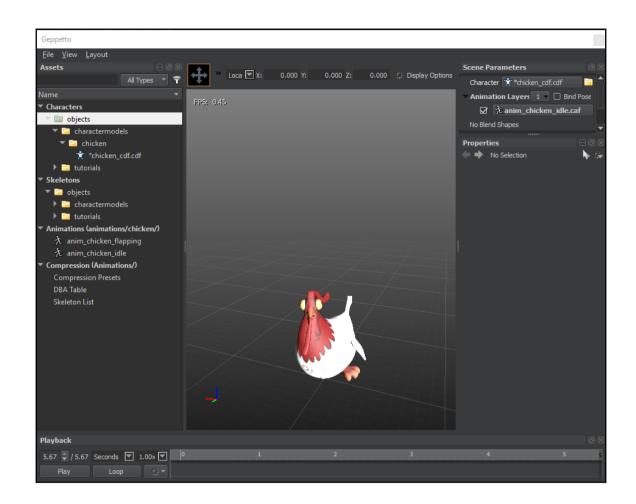
Chapter 4: Creating 3D Characters



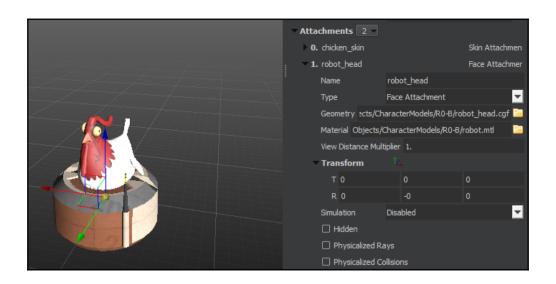
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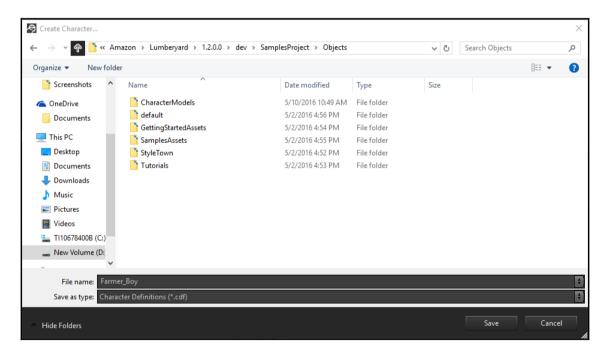


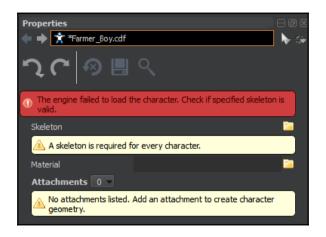


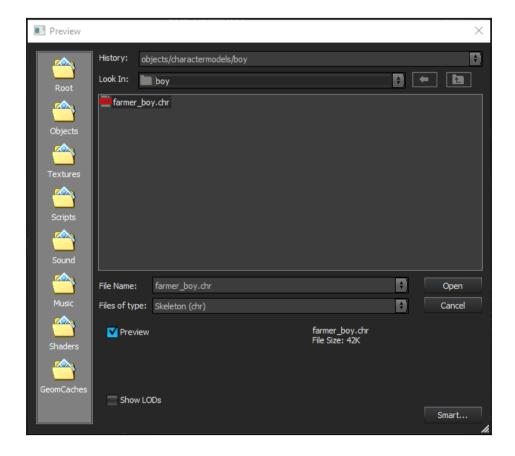


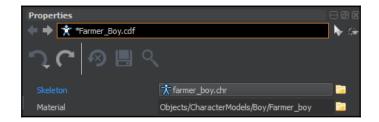
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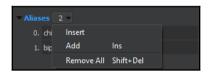




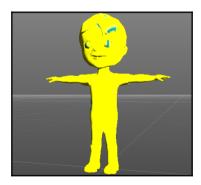


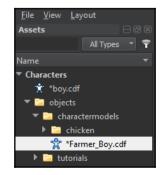








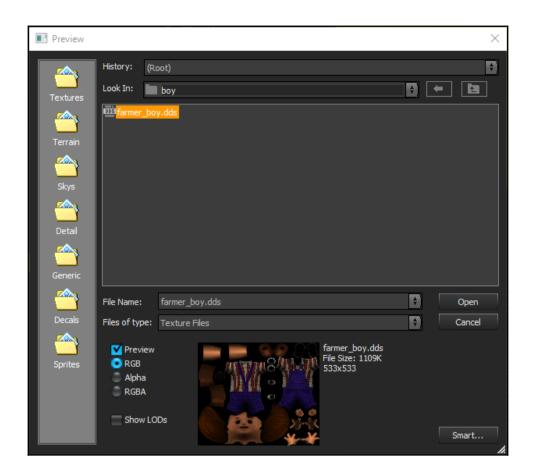


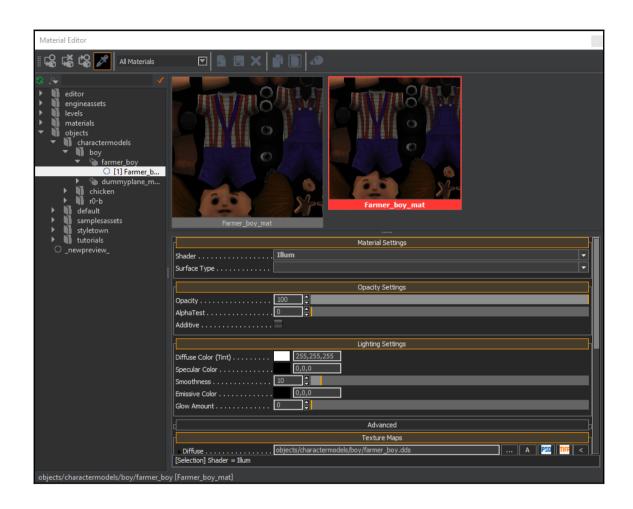


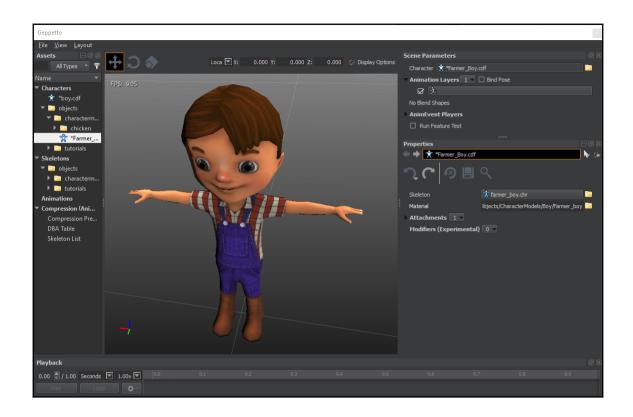




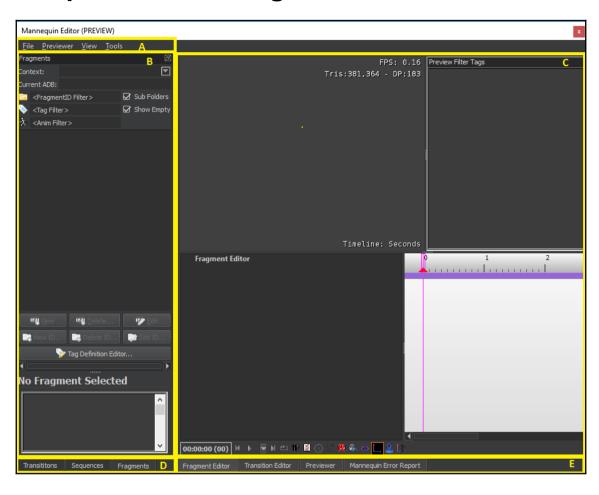


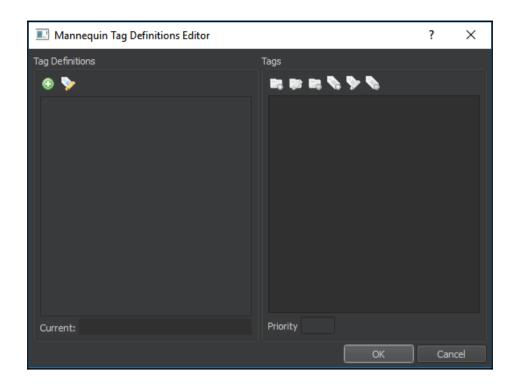


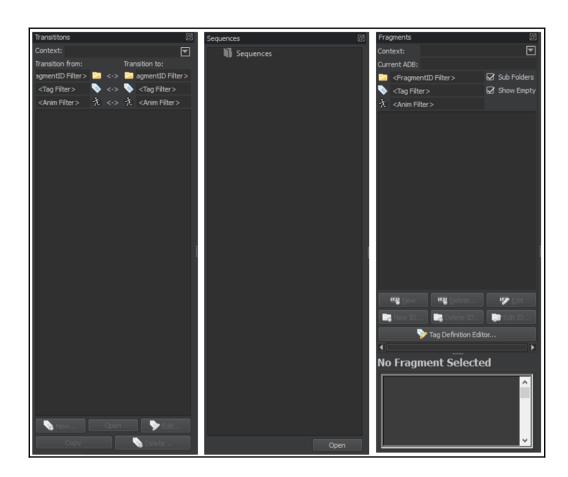


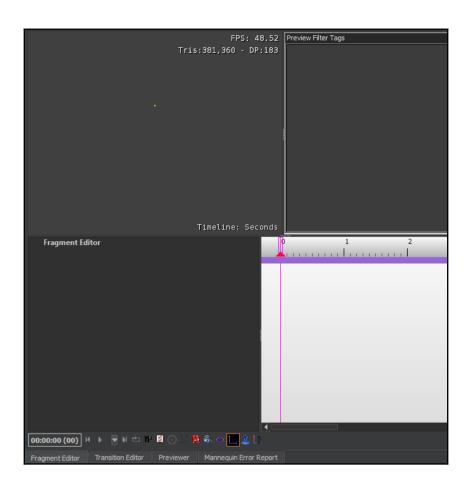


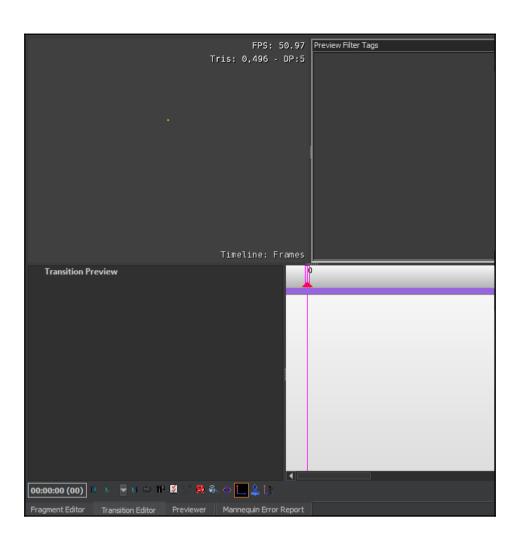
Chapter 5: Animating Your Characters

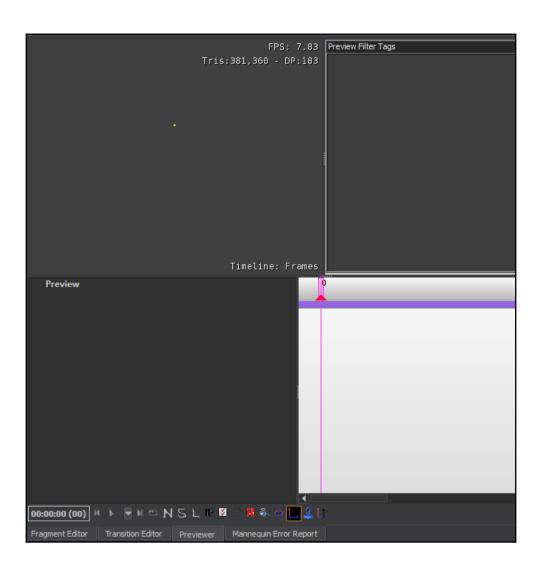


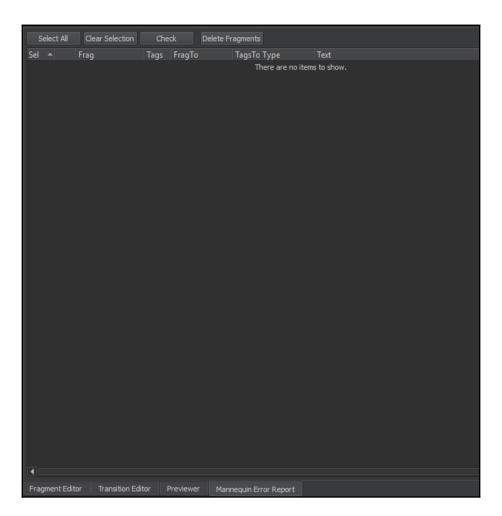


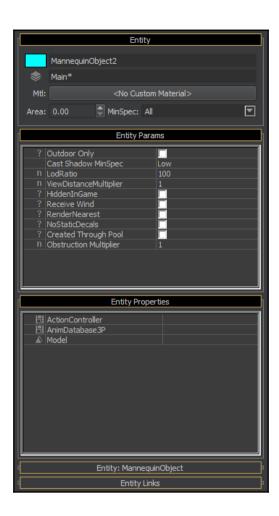


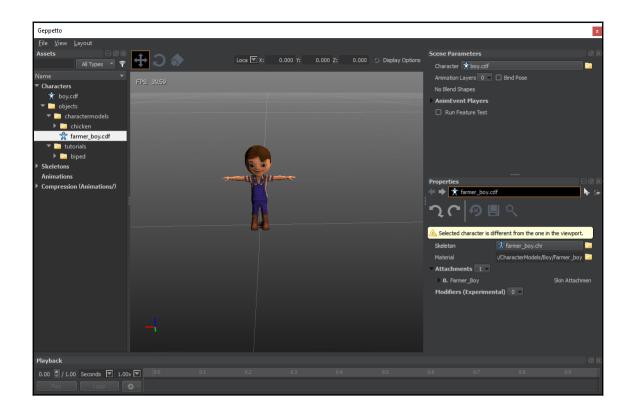


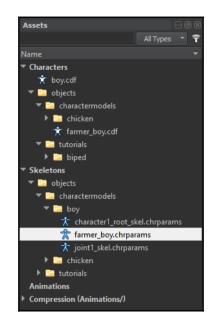


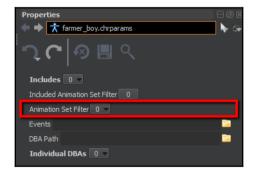


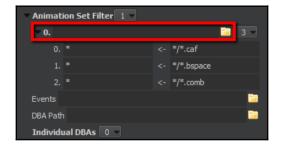


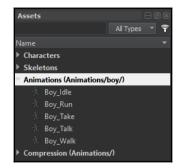




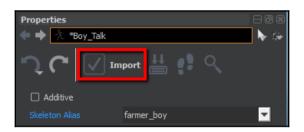


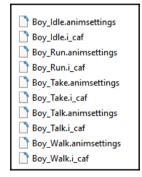


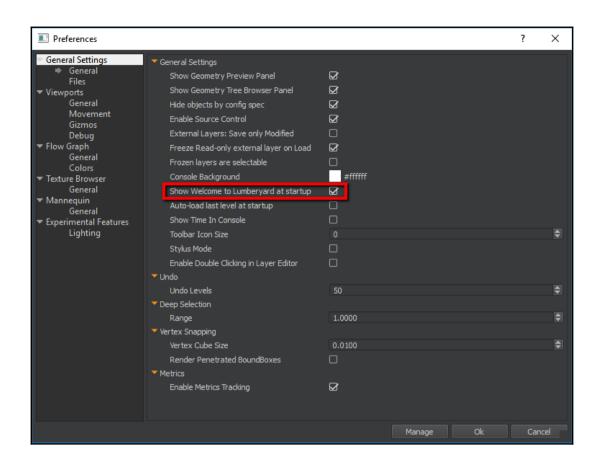


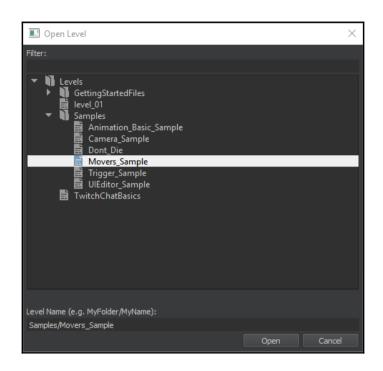


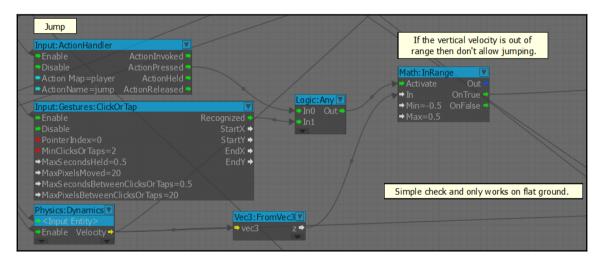
Boy_Talk
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the animation to a skeleton alias in the properties window
and click the "Import" button.

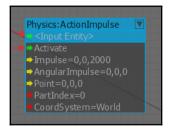


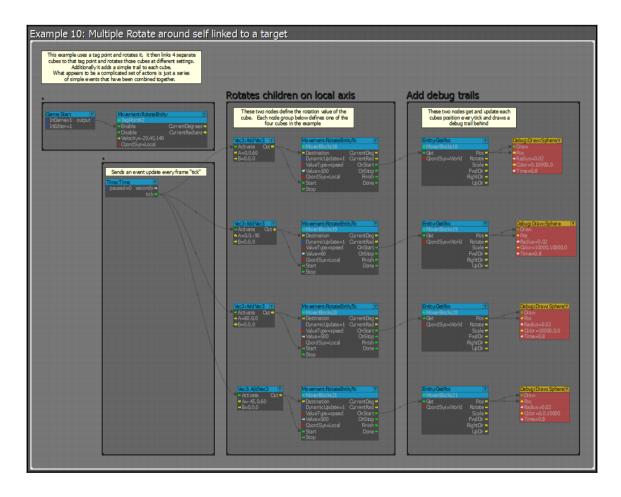


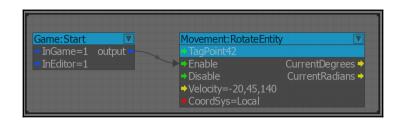


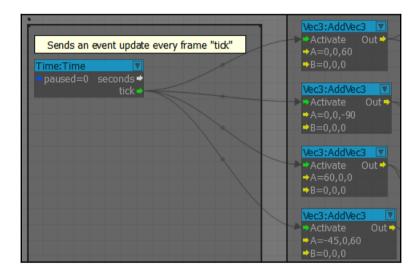






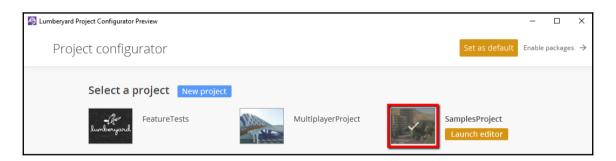




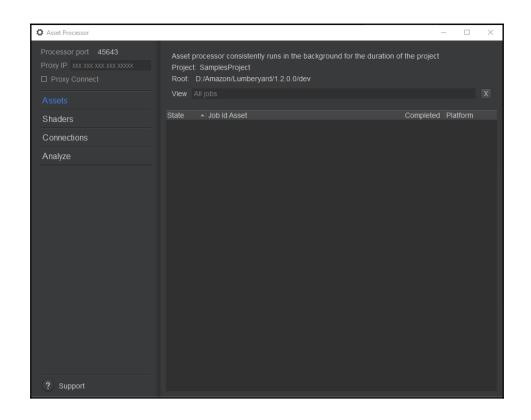


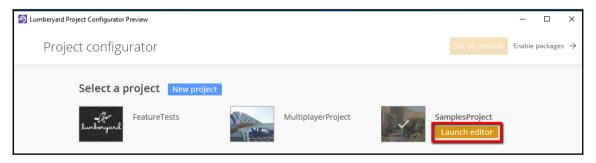
Chapter 6: Creating Gameplay

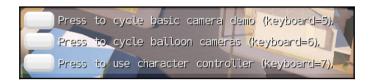


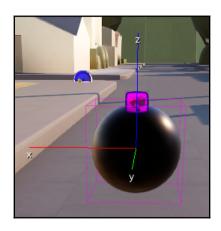


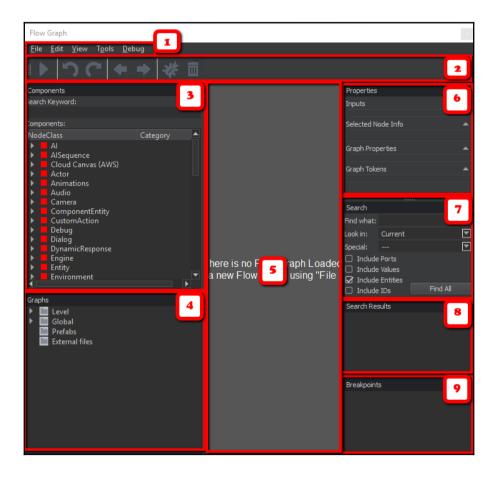






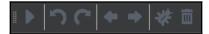


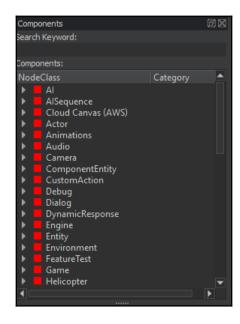


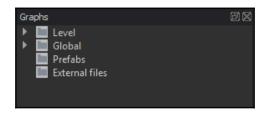


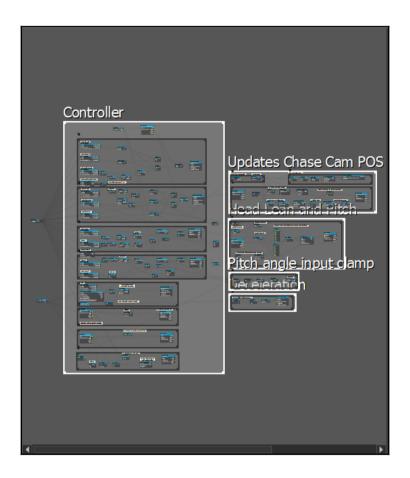
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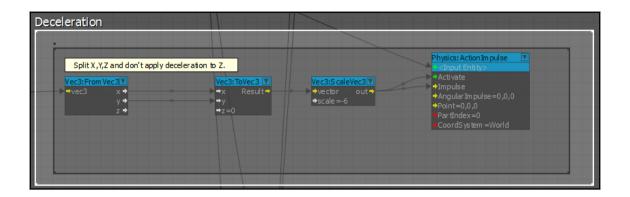


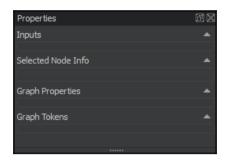


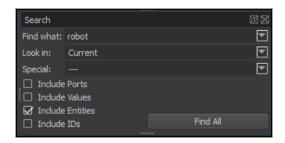


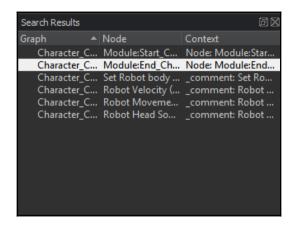


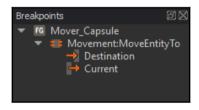


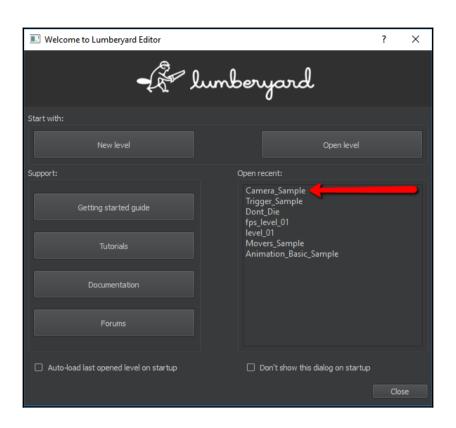




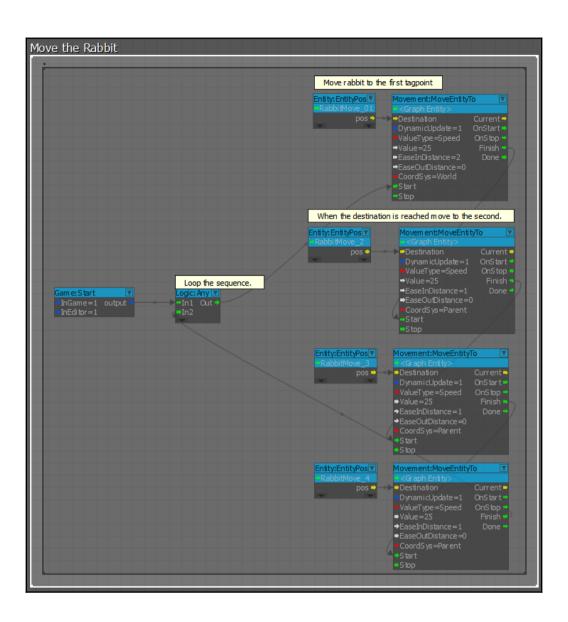


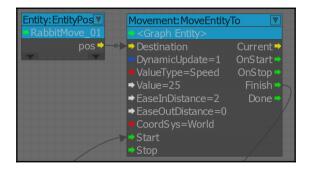


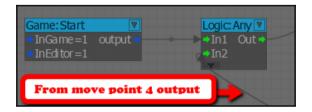


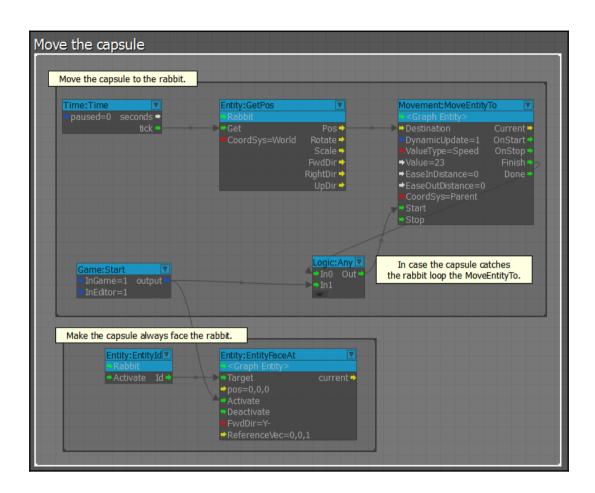




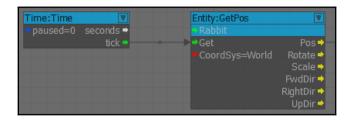




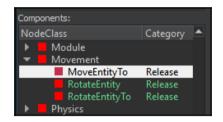


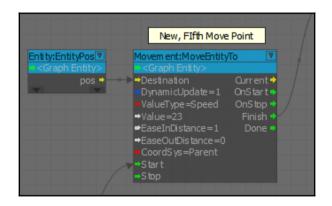




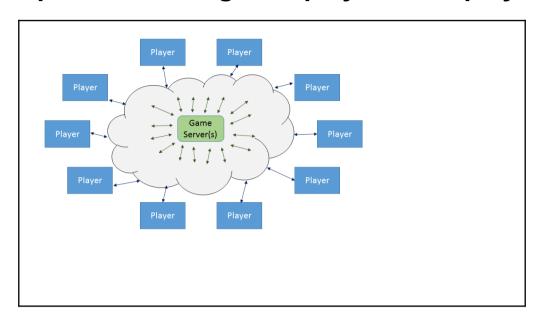


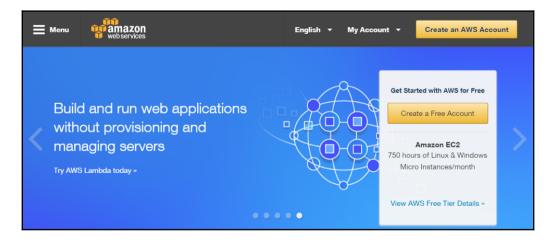
By Name, Hide filtered, AND Q Rabbit



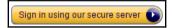


Chapter 7: Creating Multiplayer Gameplay

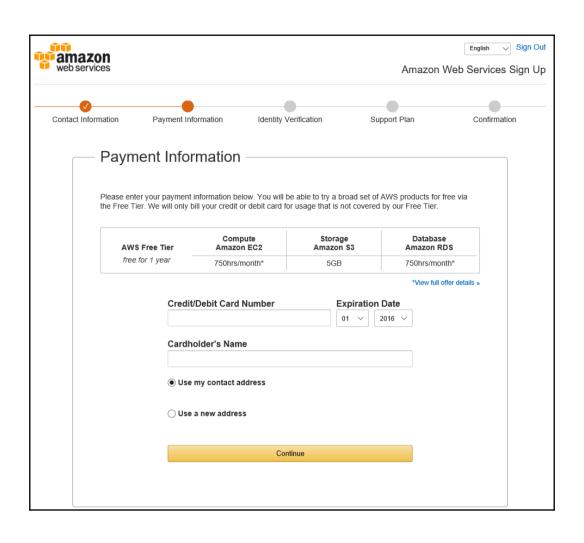


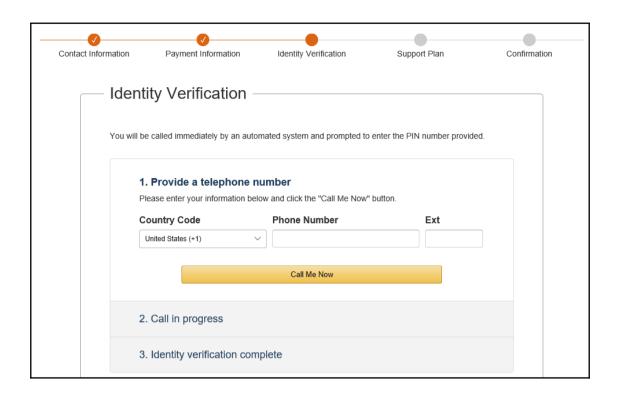


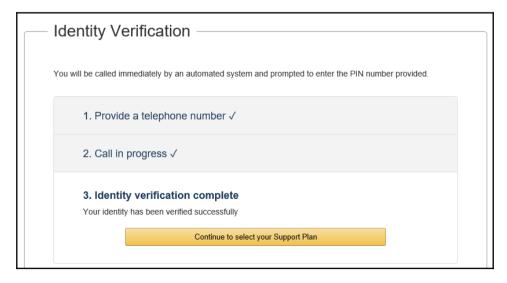
Sign In or Create an AWS Account What is your email (phone for mobile accounts)? E-mail or mobile number: I am a new user.



Login Credentials	
Use the form below to create login credentials that can be used for AWS as well as Amazon.com.	
My name is:	
My e-mail address is:	
Type it again:	
	note: this is the e-mail address that we will use to contact you about your account
Enter a new password:	
Type it again:	
	Create account







Confirmation

Thank you for updating your Amazon Web Services (AWS) subscription. Your management console will now be up to date with all AWS services.

Go to the Management Console





Step 1: Upload the sample game server to your Amazon GameLift account Each version of your game server is called a build by Amazon GameLift. The first step is to upload a build. For this test, we've already created a build of a sample game developed with Lumberyard. Give the sample game server build a name and add it to your account below. Game Server Name: myTest Add build

Step 2: Deploy the sample game server

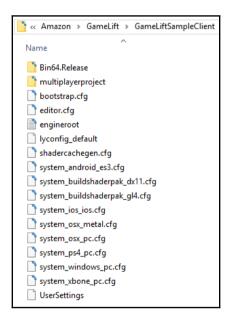
Game servers are deployed into fleets of one or more Amazon EC2 instances. Creating a fleet, starting an EC2 instance, and running a game server can take up to 40 minutes. Create a new fleet to run the sample game server from your account below.

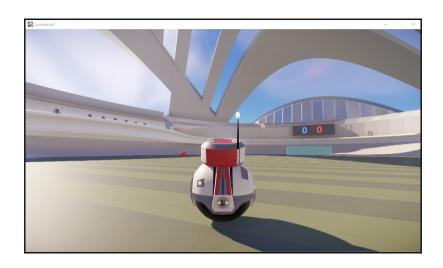
Create a fleet

Step 3: Download the sample game client

While your fleet is activating, download the sample game client now on a PC with the system requirements. The download is a zip file, which you'll need to extract before playing. Once your fleet is active, you can move on to Step 4.

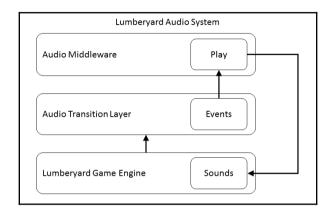
Download game client





Status	Fleet ID	EC2 type	Active instances	Protection	Active game sessions	Current player sessions	Uptime	Date created
Active	fleet-26f2d56a-0b8a-40dd-871e-b8682a914d1a	c3.large	1	≙ No	1	0 of 8	00d 15h 37m 21s	Sun, 26 Jun 2016 0:43:0
I				protection				

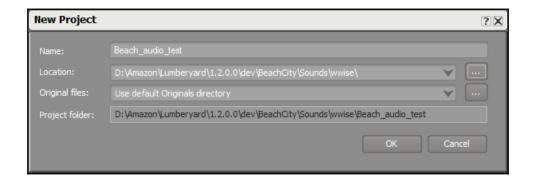
Chapter 8: Bringing Your Game to Life with Audio and Sound Effects



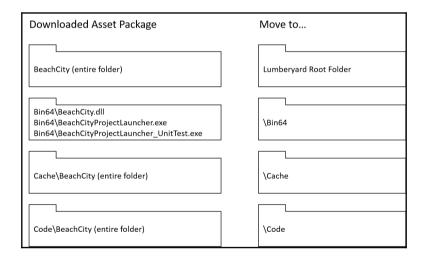


Optional software	Install link	Located on HD	Status
Audiokinetic Wwise LTX Authoring Tool Wwise LTX is a comprehensive audio middleware solution for game development designed to create sophisticated and rich interactive audio.	Get it	Found	\otimes

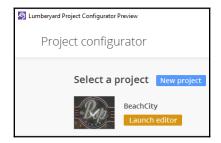


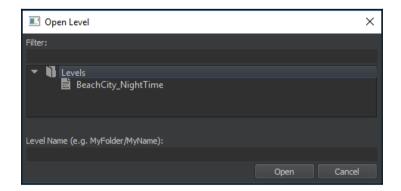










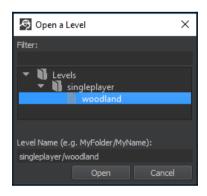




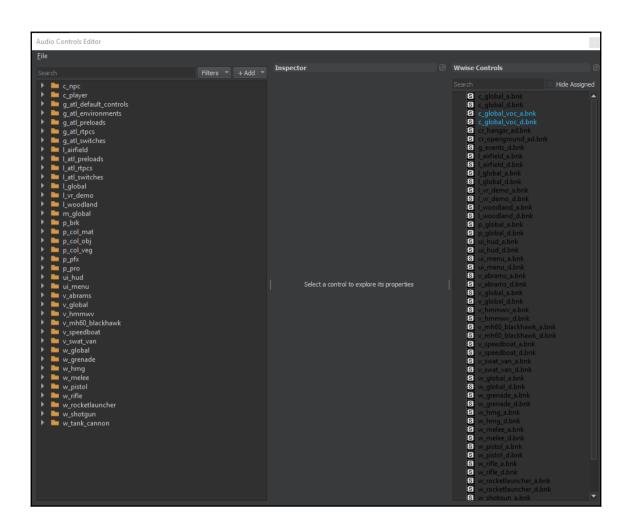


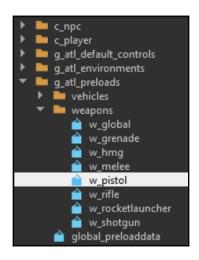


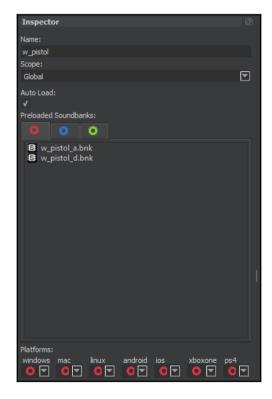








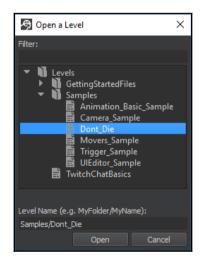


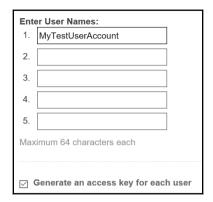


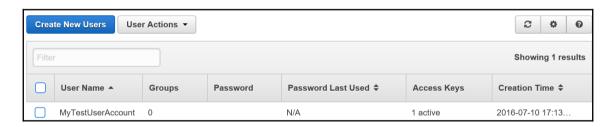
Chapter 9: Employing Cloud Computing and Storage





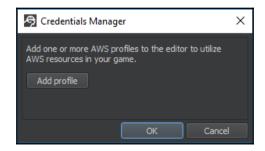


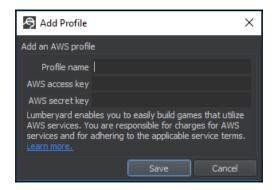


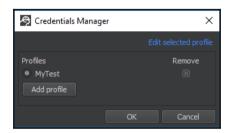




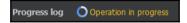


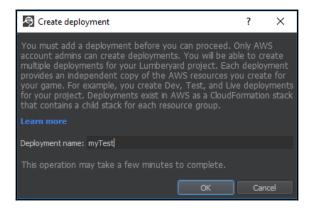


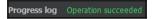








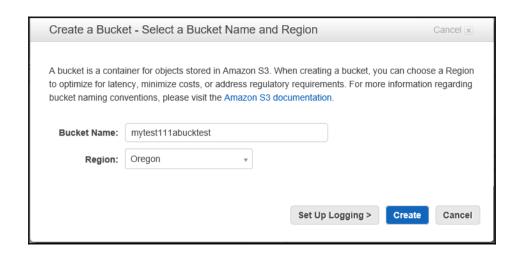


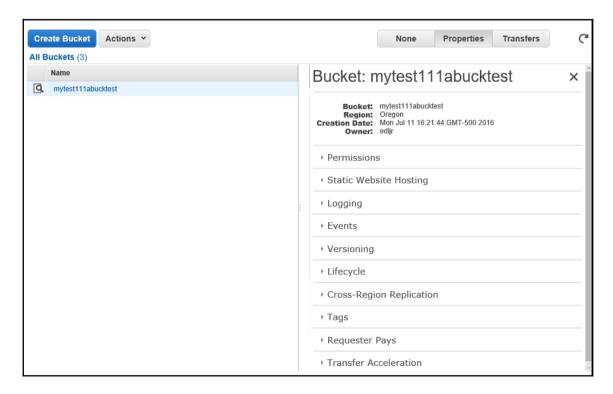


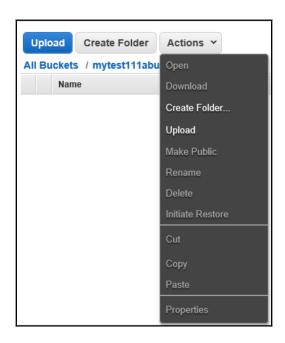




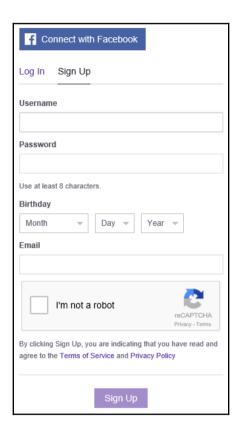




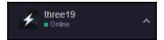


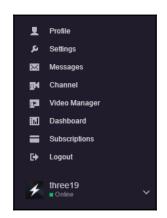


Chapter 10: Engaging With Users Using Twitch

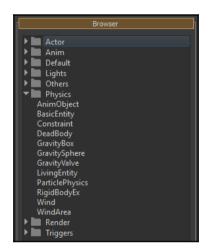


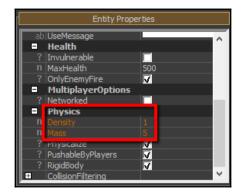
Welcome to Twitch! Please click here to verify your email!

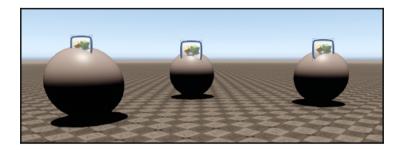


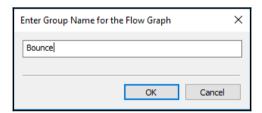


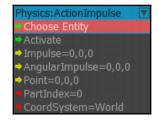


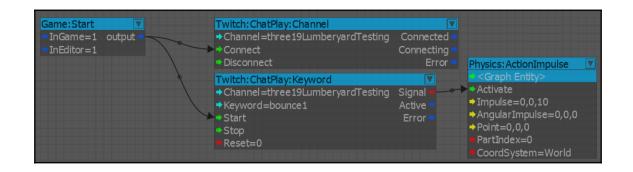












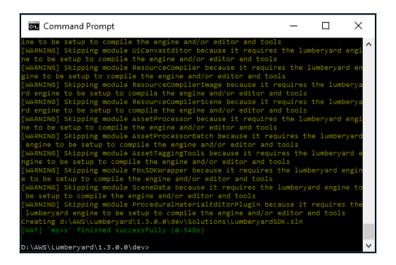


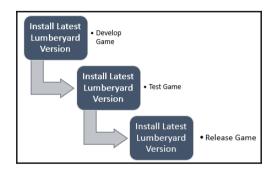


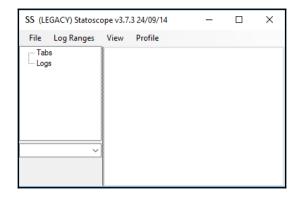


Chapter 11: Providing Your Game to the World

What do you want to do with Lumberyard?				
☐ Run your game project				
☐ Run the Lumberyard Editor and tools				
☐ Compile the game code				
☐ Compile the engine and asset pipeline				
☐ Compile the Lumberyard Editor and tools				
☐ Compile for Android devices				
☐ Compile for iOS devices				



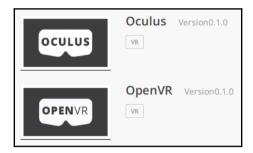






Chapter 12: Stretching Your Lumberyard Wings













```
VR:TransformInfo

Description

PEnabled=1 Camera pos

Camera rot (PRY)

HMD pos

HMD rot (PRY)

HMD rot (PRY)
```

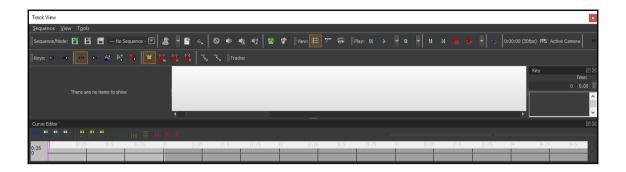
```
VR:VREnabled ▼

→ Activate True →

False →
```

```
X
 Command Prompt
D:\AWS\Lumberyard\1.3.0.0\dev\_WAF_>dir
Volume in drive D is New Volume
Volume Serial Number is 9288-995F
Directory of D:\AWS\Lumberyard\1.3.0.0\dev\_WAF_
07/04/2016 08:56 PM
07/04/2016 08:56 PM
                       <DIR>
97/94/2916 97:47 PM
                       <DIR>
                                     android
                               15,450 default_settings.json
06/29/2016 04:18 PM
06/29/2016 04:18 PM
                                 159 environment.json
07/04/2016 07:46 PM
                       <DIR>
                                     ios
07/04/2016 07:46 PM
                       <DIR>
                                     msbuild
07/04/2016
           07:47 PM
                       <DIR>
                                     specs
08/20/2016 09:36 AM
                               2,199 user_settings.options
                               17,808 bytes
              6 Dir(s) 906,980,159,488 bytes free
D:\AWS\Lumberyard\1.3.0.0\dev\_WAF_>
```

```
Command Prompt
D:\AWS\Lumberyard\1.3.0.0\dev\_WAF_\specs>dir
 Volume in drive D is New Volume
 Volume Serial Number is 9288-995F
 Directory of D:\AWS\Lumberyard\1.3.0.0\dev\_WAF_\specs
07/04/2016 07:47 PM
                        <DIR>
07/04/2016 07:47 PM
                                 7,576 all.json
06/29/2016 04:18 PM
                                 1,148 dedicated_server.json
06/29/2016 04:18 PM
06/29/2016 04:18 PM
                                   205 game.json
                                 1,913 game_and_engine.json
906 resource_compiler.json
06/29/2016 04:18 PM
06/29/2016 04:18 PM
06/29/2016 04:18 PM
                                   522 shadercachegen.json
06/29/2016 04:18 PM
                                 1,298 tools.json
               7 File(s)
                                 13,568 bytes
               2 Dir(s) 906,980,077,568 bytes free
D:\AWS\Lumberyard\1.3.0.0\dev\_WAF_\specs>
```





PC System Requirements for Popular Game Titles (titles suppressed)							
Spec	1997	2007	2017				
Intel CPU	Pentium Processor	Pentium 4.2 GHz	Core <u>i5</u> -3470 3.2 GHz				
RAM	16 MB	512 MB	8 GB				
Graphics	SVGA with 1 MB VRAM	Nvidia GPU GeForce 6600	Nvidia GPU GeForce GTX 750 Ti				
Hard Drive	80 MB	8 GB	80 GB				
Direct X	N/A	DX 9	DX 12				
Windows	Win 95	Win XP 32-bit	Win 10 64-bit				

