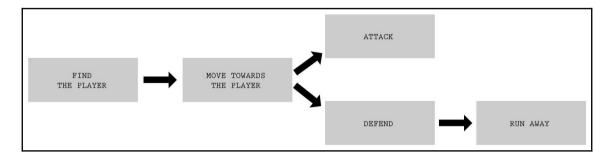
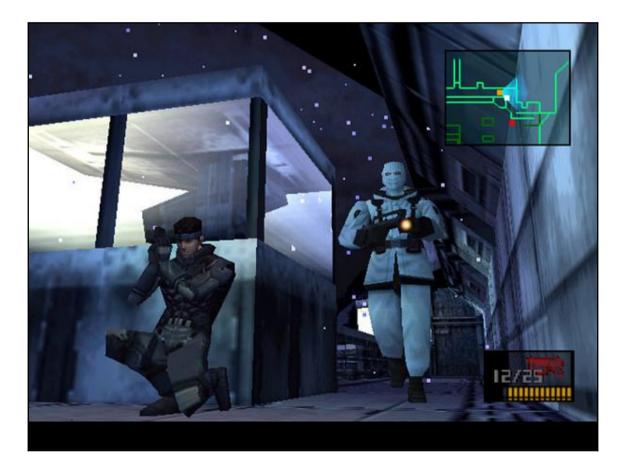
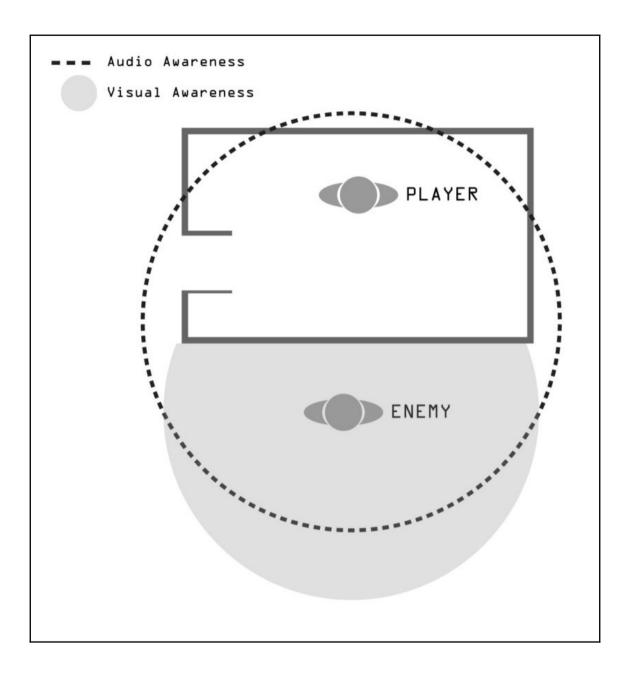
Chapter 1: Different Problems Require Different Solutions

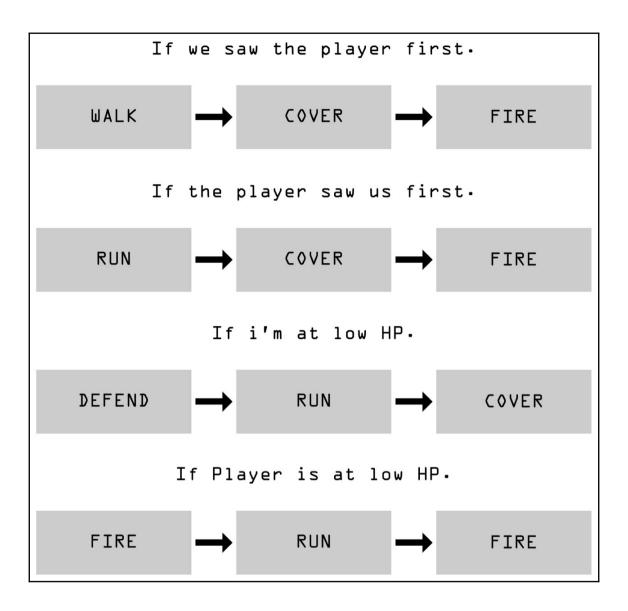


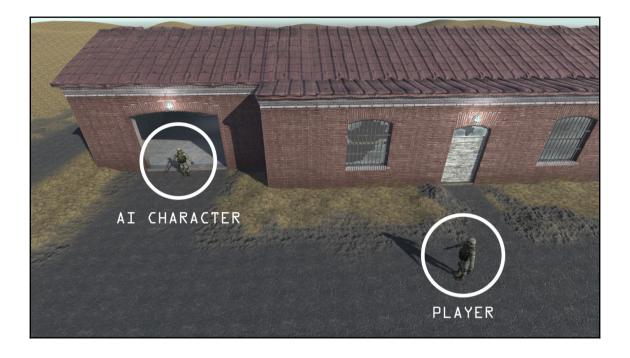


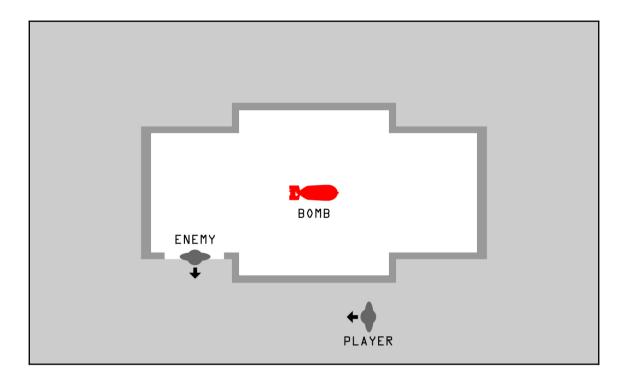


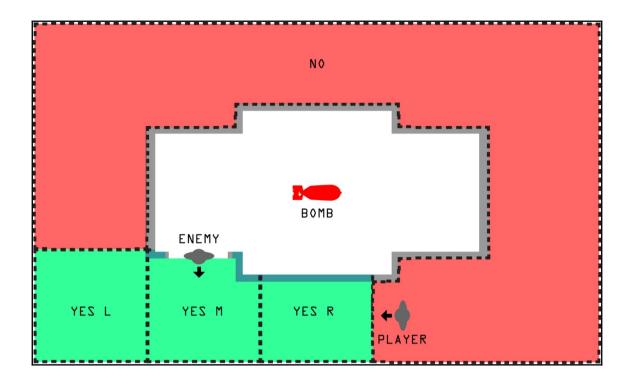
Chapter 2: Probability and Possibility Maps

RUN	FIRE	DEFEND
WALK	COVER	JUMP









PASSIVE	X		AGRESSIVE
Hold Position		DEFENSIVE	Face Player
		Find Cover Enter Building	Fire Search Player







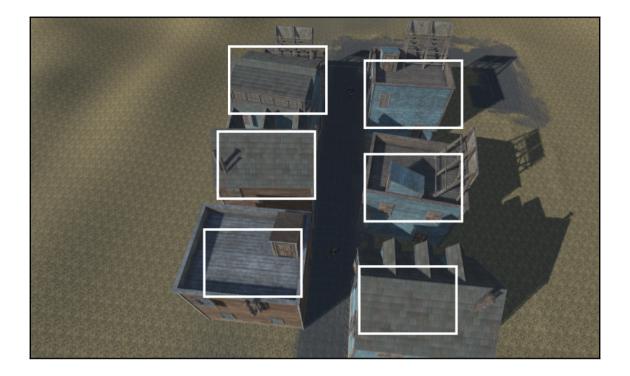
Time	Guard	Eat/Drink	Walk
Morning	0.87	0.1	0.03
Afternoon	0.48	0.32	0.2
Night	0.35	0.40	0.25



Chapter 3: Production Systems



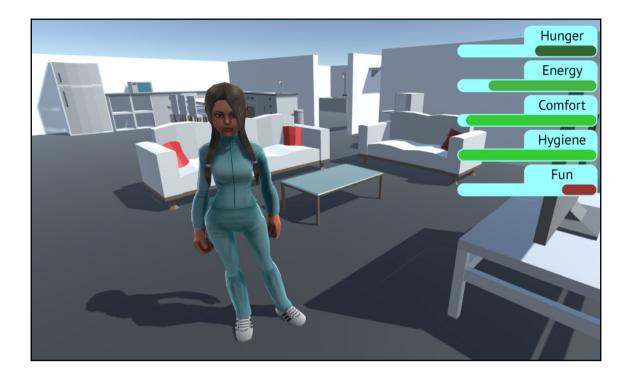




>20HP Defeat player
<20HP SURVIVE

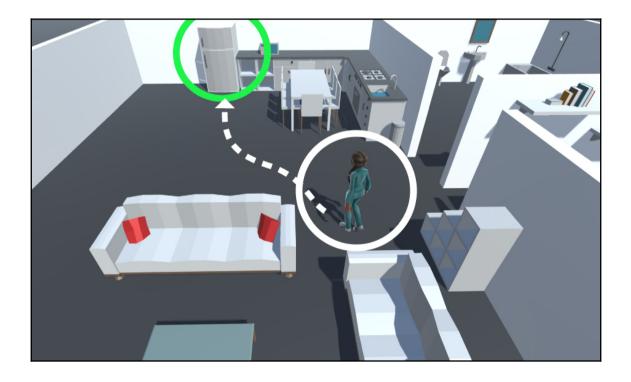
>20HP Defeat player	FIND PLAYER
<20HP	FIND COVER
SURVIVE	FIND POINTS

>20HP	FIND PLAYER	MOVE TO
DEFEAT PLAYER	FIND COVER	FIRE
<20HP		USE ØBJECT
SURVIVE	FIND POINTS	CROUCH

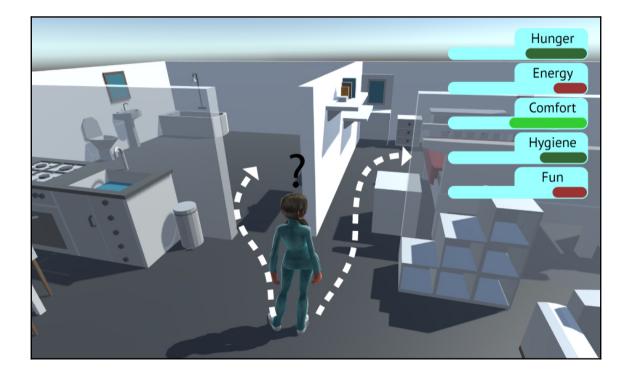


HUNGER ENERGY COMFORT HYGIENE	GO TO INTERACT WITH
FUN	

	DO I HAVE FOOD?	
AM I HUNGRY?	CHECK FRIDGE	ΕΑΤ
	COOK	



AM I SLEEPY? DO I HAVE TO WORK?	DO I NEED TO GO TO THE WC?	SLEEP
------------------------------------	----------------------------------	-------



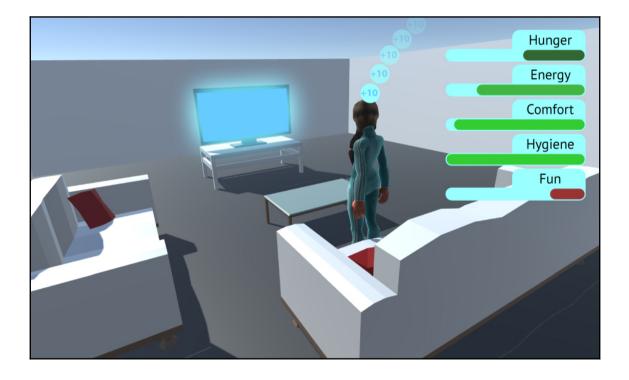
AM I AM I DOIN UNCOMFORTABLE? OTHER THIN	SEAT
---	------



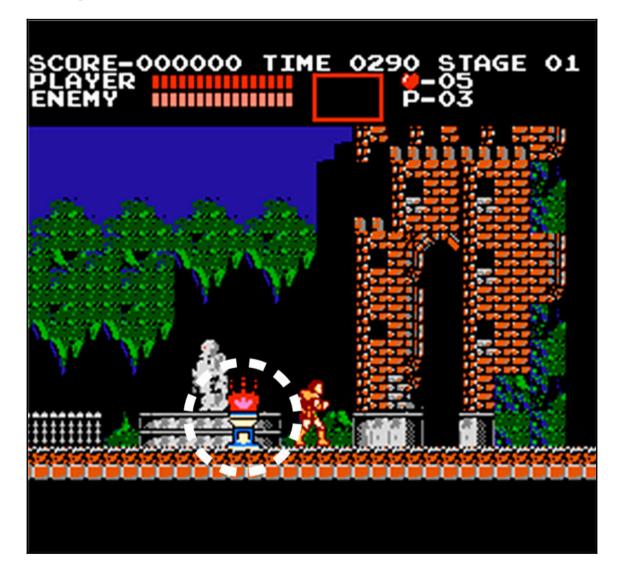
DO I NEED AM I DOING TA A SHOWER? OTHER THINGS? SHO	
--	--



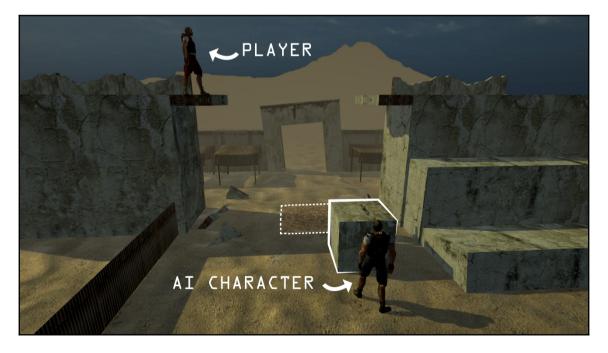
	AM I BUSY?	
AM I BORED?	CAN I WATCH TV	WATCH TV
	AT THE SAME TIME?	

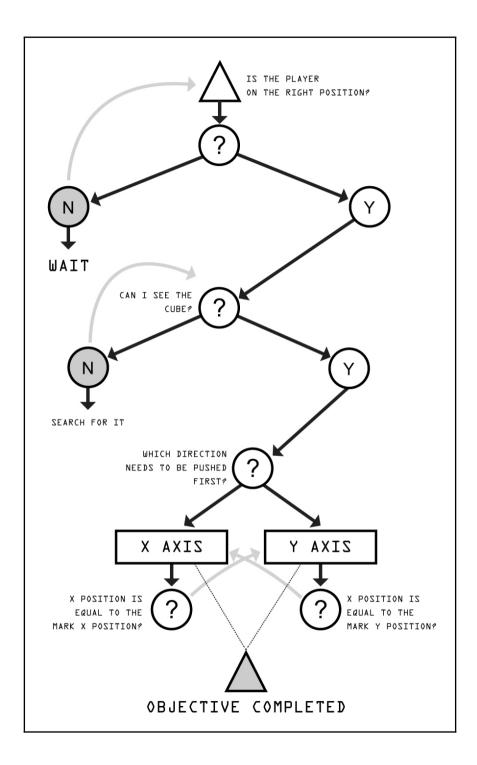


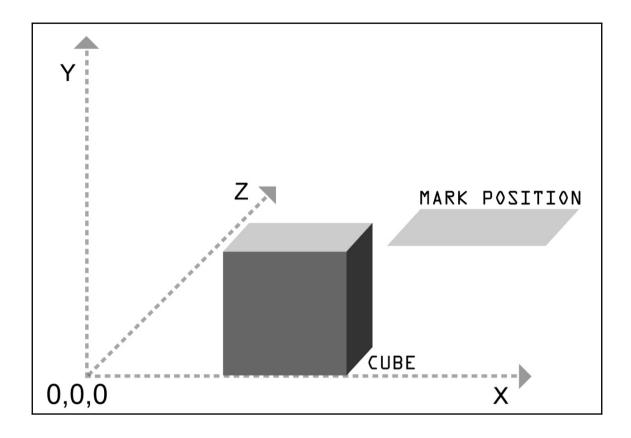
Chapter 4: Environment and AI



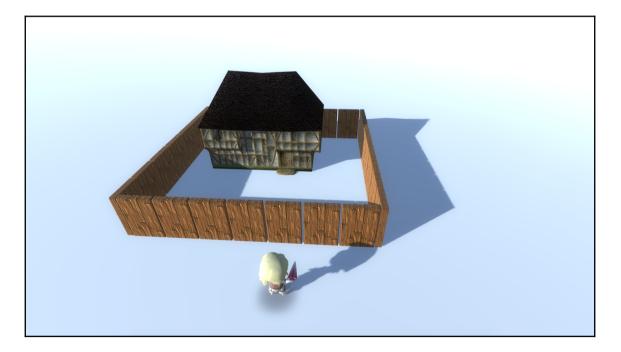


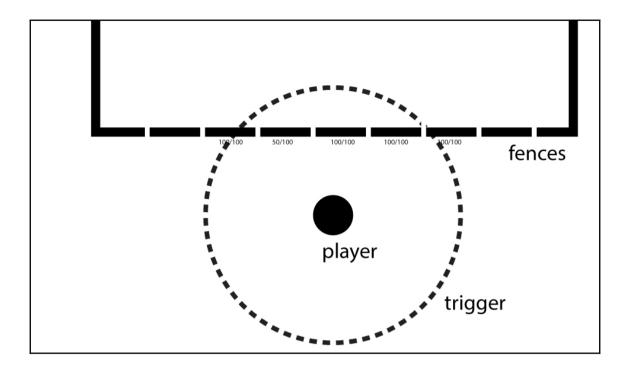






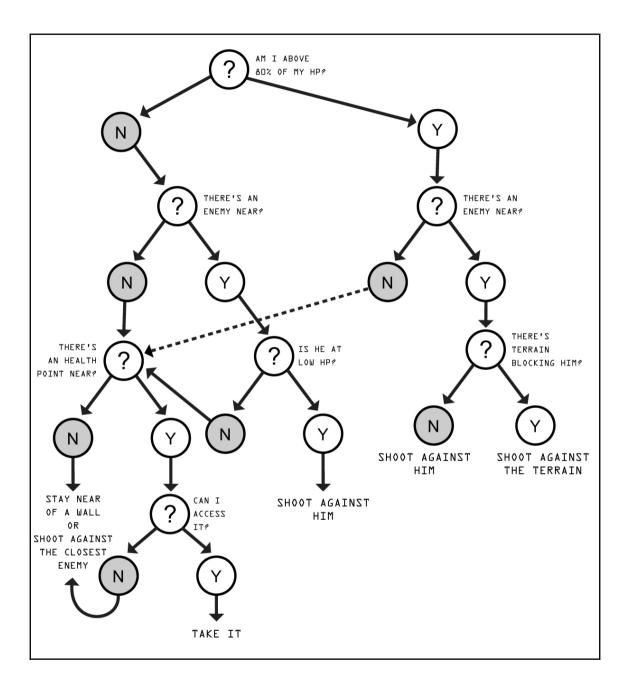




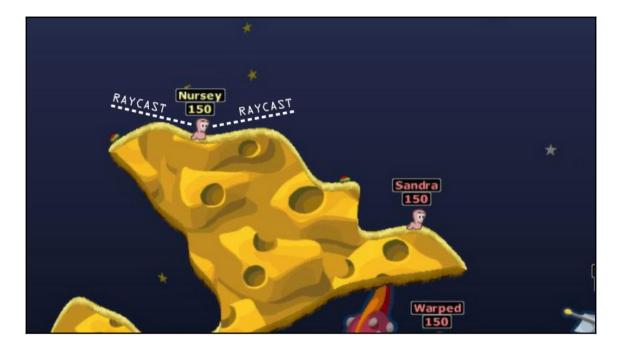








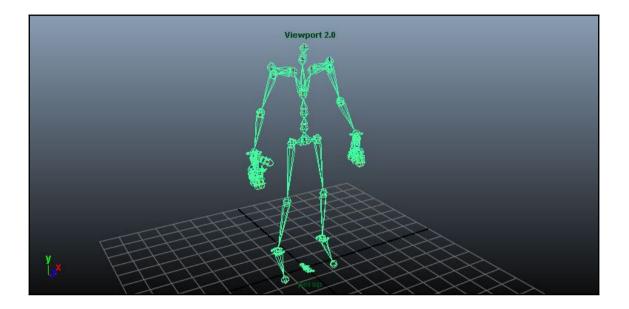


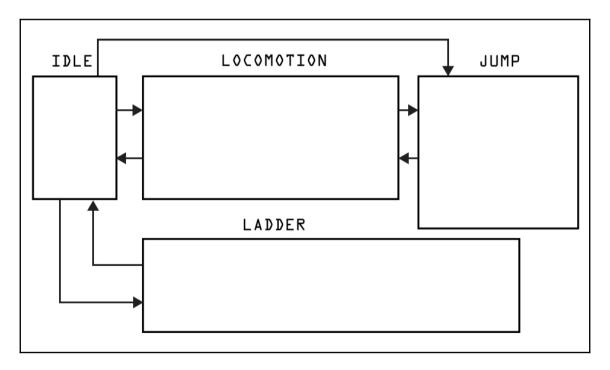


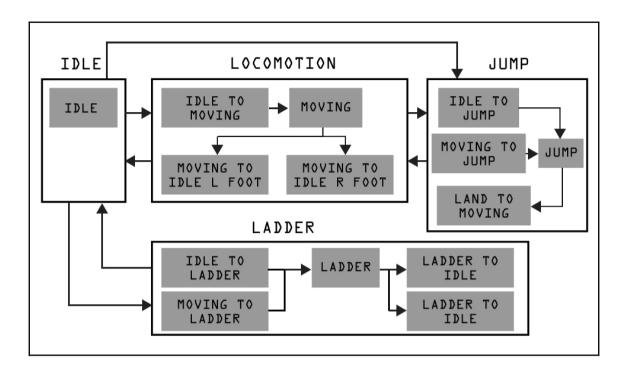
Chapter 5: Animation Behaviors

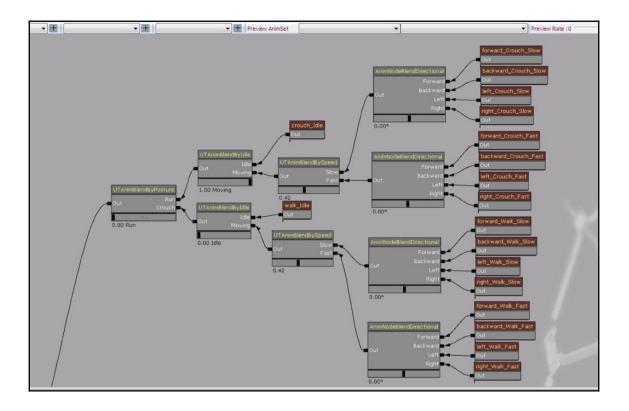


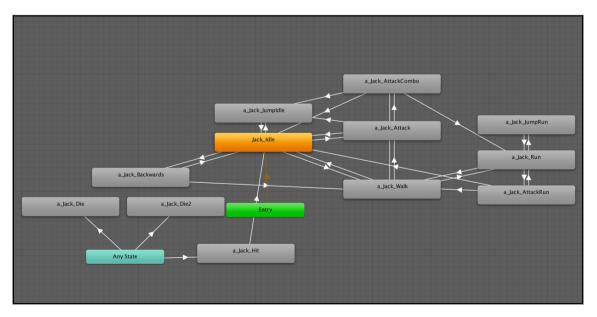
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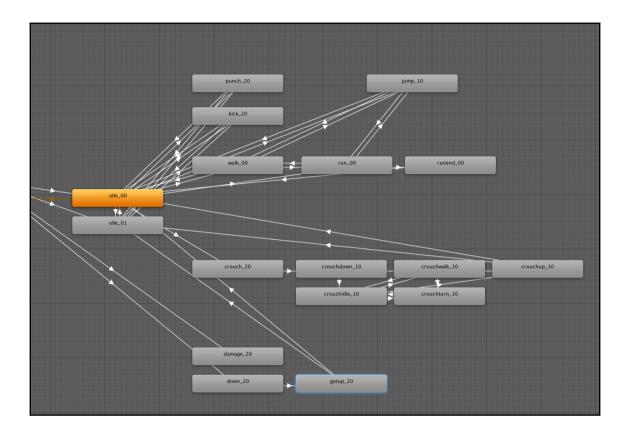




Folder	
C# Script Javascript Editor Test C# Script Shader	
Scene Prefab	
Audio Mixer	Create >
Material Lens Flare Render Texture Lightmap Parameters	Reveal in Finder Open Delete Open Scene Additive
Sprites ►	Import New Asset
Animator Controller	Import Package Export Package Find References In Scene Select Dependencies
Physic Material Physics2D Material	Refresh XR Reimport
	Reimport All
GUI Skin Custom Font	Run API Updater
Legacy >	Open C# Project

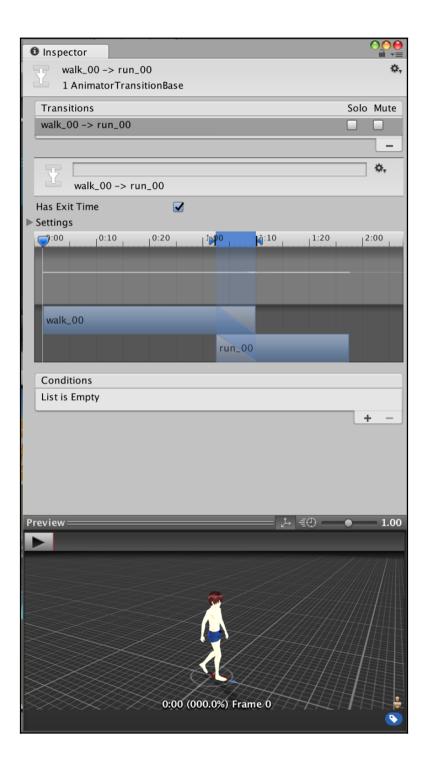
		idle_01			
	run_00	getup_20	D	down_20	
idle_00			damage_20		
punch_20	crawl_10			crouchturn_10	
kick_20		crouch_20		crouchdown_10	
	jump_10		walk_00	_	
Any State	*	crouchwalk_10			crouchup_10
Entry				crouchidle_10	
Exit			runend_00		

	ATTACK	JUMP	LOCOMOTION
	walk.00	run_00 runend_90	
idle_01	CROUCH crouch_20	crouchdown_10 crouchwalk_10	crouchup_10
		crouchide_10 crouchturn_10	
	damage_20 down_20 DAMAGE	getup_20	



QTName		θ.
= Blend	0.0	Float Int
		Bool Trigger

Layers Parameters	9
Q*Name	+.
= currentSpeed	0.0



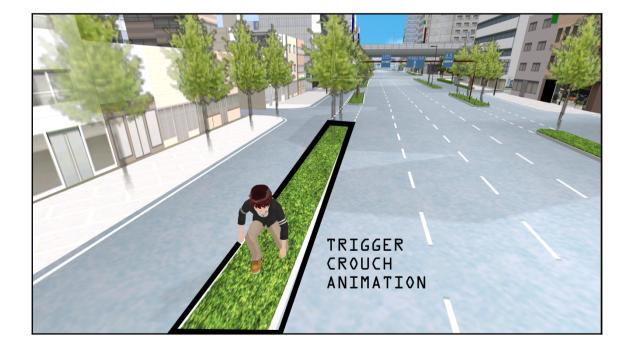
1 Inspector			000
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Tag			
Motion	o idle_00		0
Speed	1		_
Multiplier	· · · · · · · · · · · · · · · · · · ·	Paramete	er
Mirror		Paramete	er
Cycle Offset	0] 🗌 Paramete	er
Foot IK			
Write Defaults			
Transitions		Solo	Mute
$=$ idle_00 -> idle_01			
$=$ idle_00 -> punch_	20		
$=$ idle_00 -> kick_20)		
\pm idle_00 -> walk_00)		
= idle_00 -> run_00			
$=$ idle_00 -> jump_1	0		
$=$ idle_00 -> crouch	_20		
idle_00 -> ru	n_00		۵,
Has Exit Time			
Settings	.		
:00	5:00	10:00	. N k
			_
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idle_00			
			r
Conditions			
List is Empty			
		+	
	Add Behaviour		
idle 00			

idle_00 -> walk_	00		۵.
Has Exit Time			
Settings			
	5:00	10:00 	ki, , , ¹!
idle_00			idle_00 walk_(
Conditions			
= currentSpeed	* Greate	er 🔹 0	
			+ -

Settings			
	5:00	10:00	
			_
idle_00			idle_00
			walk_(
Conditions			
= currentSpeed	▼ Greater	\$ 0.1	
			+ -
	Add Behaviour		

► Settings					
:00	5:00		10:00		
idle_00					idle_00
					walk_(
Conditions					
= currentSpeed	*	Greater	\$	0.1	
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					+ -

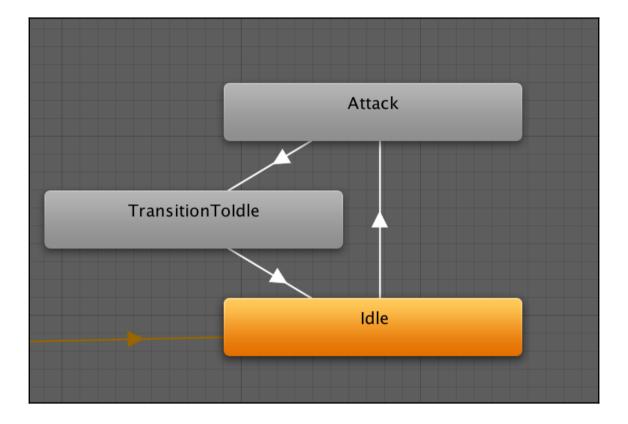
-90:00 -60:00 -30:00	
	v
	idle_00
Conditions	
= currentSpeed * Less	÷ 0.1
	+ -



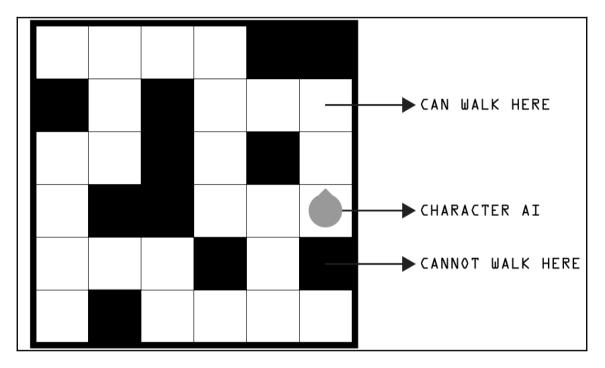
💏 Animator	
Layers Parameters	9
(Qr Name	+.
= currentSpeed	0.0
= steppingGrass	

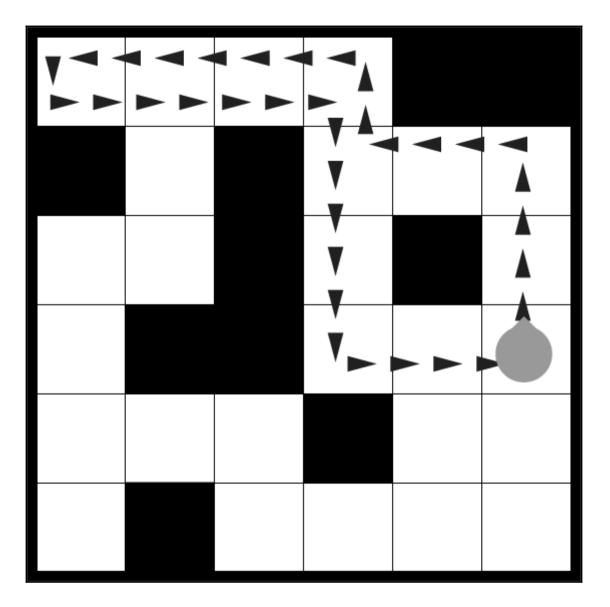
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	5:00		10:00	. D		15:00
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Conditions						
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					+	_

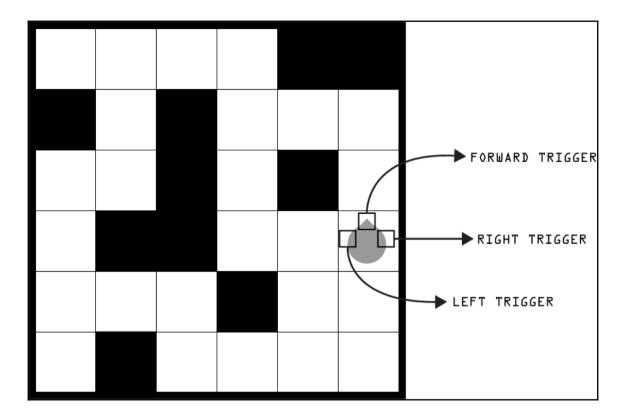
Layers Parameters	9
QTName	+.
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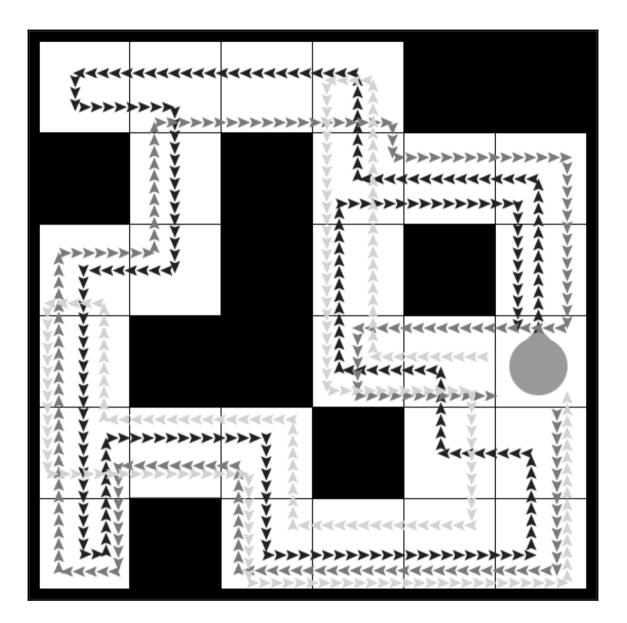


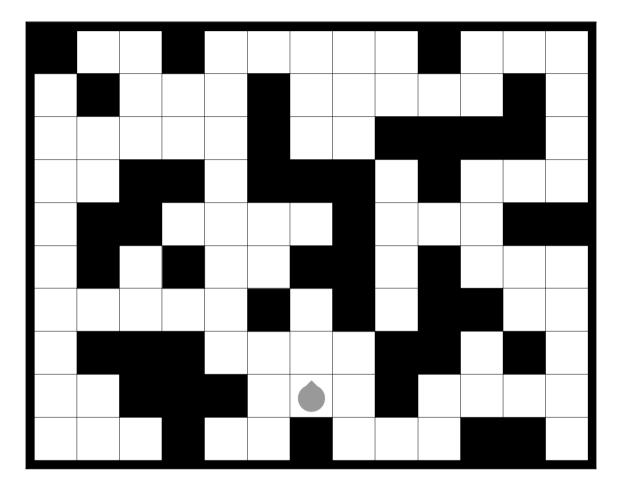
Chapter 6: Navigation Behavior and Pathfinding

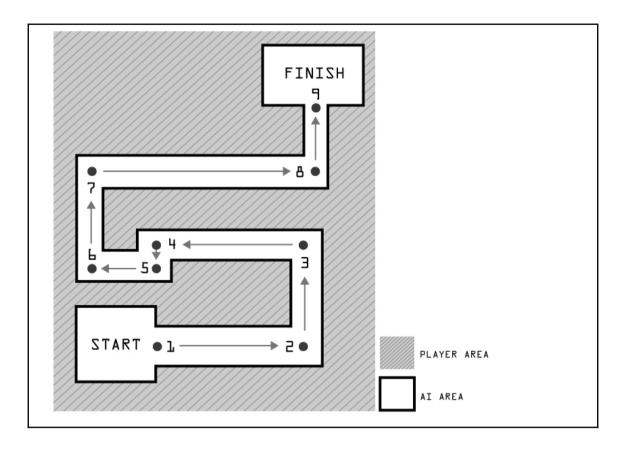


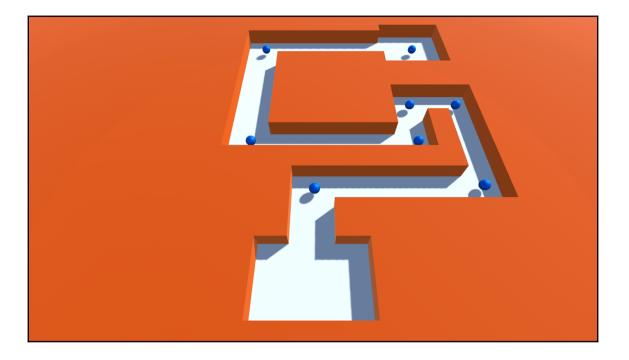




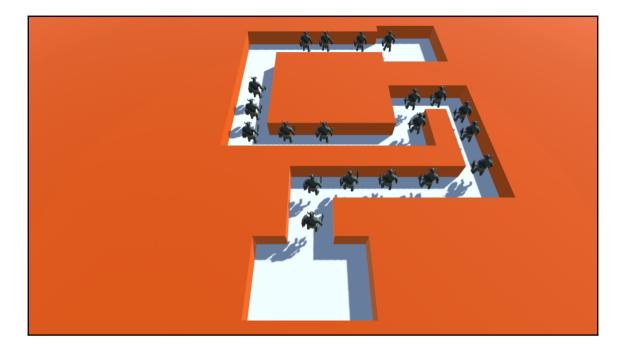


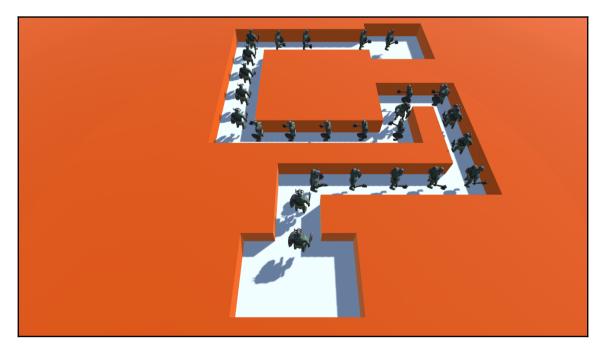


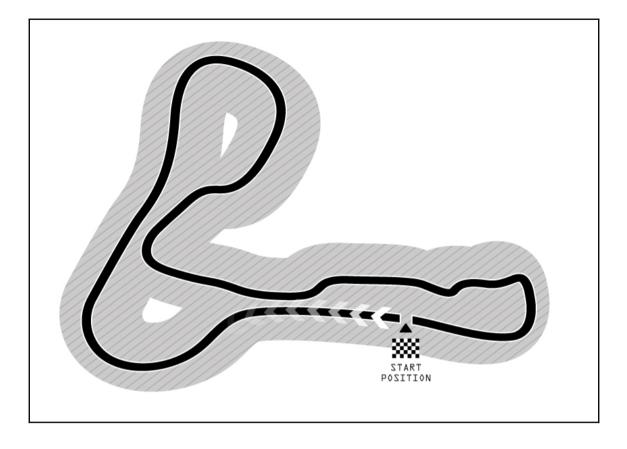


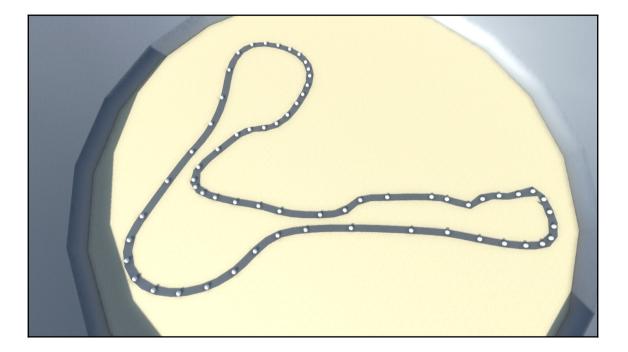


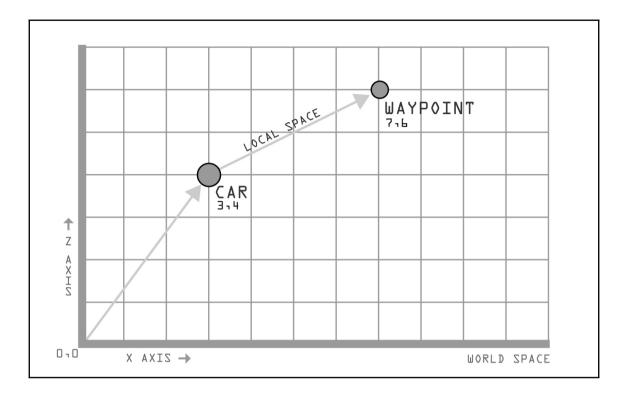


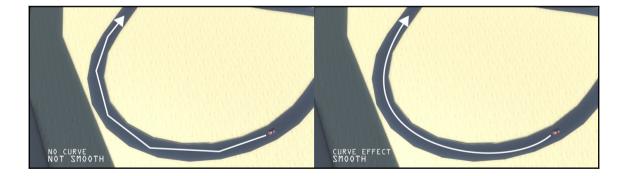


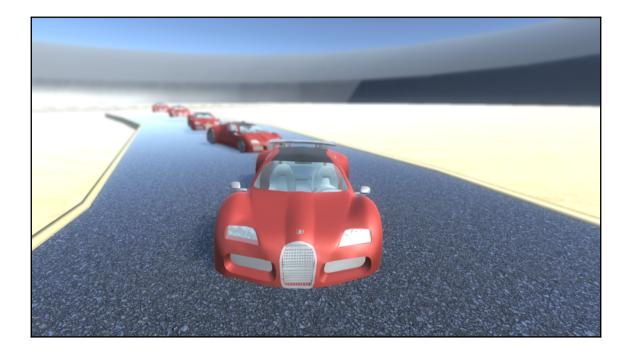


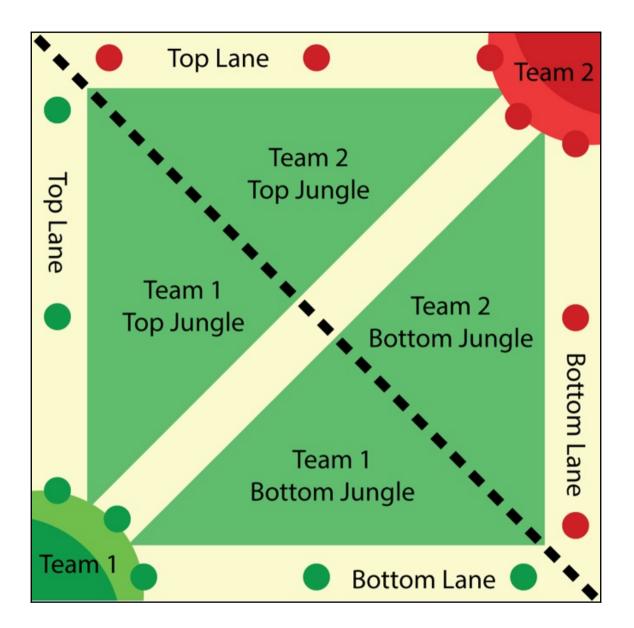




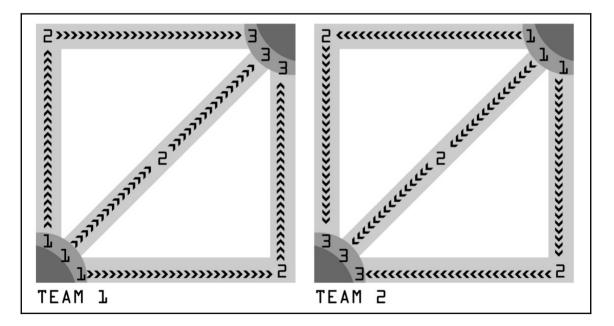




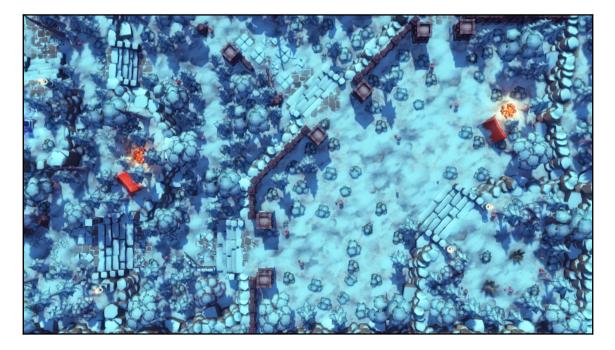


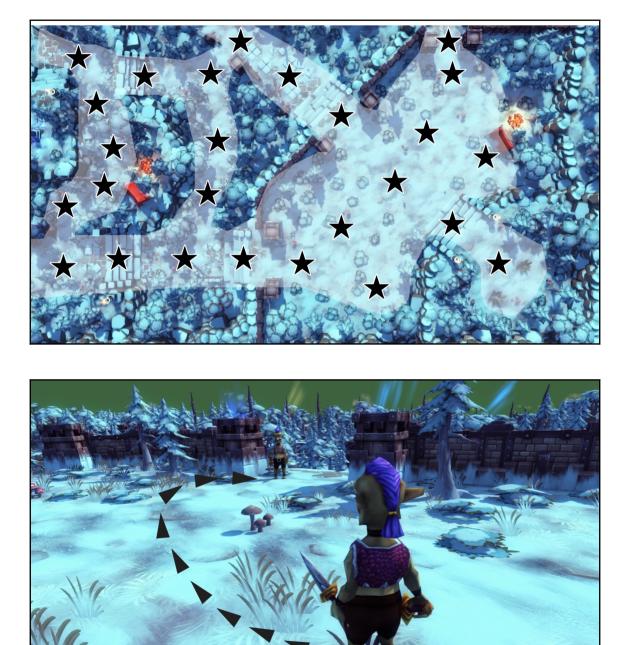




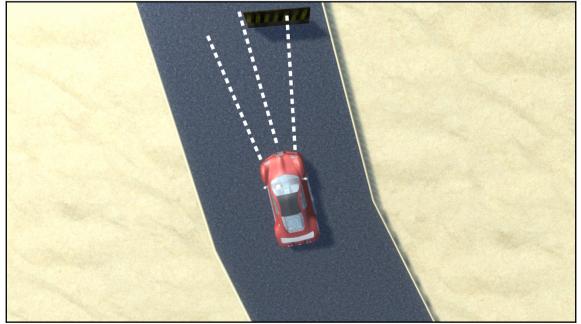










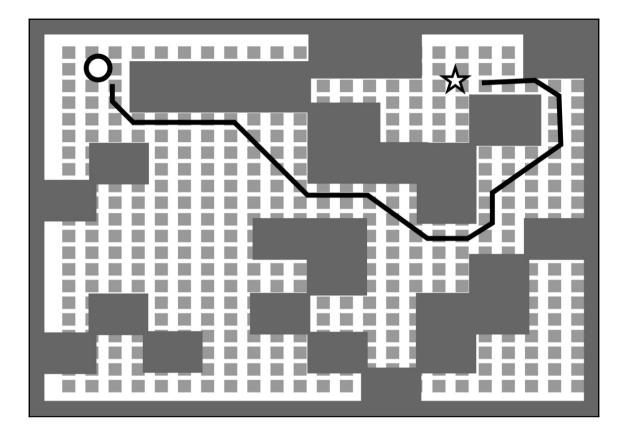




Chapter 7: Advanced Pathfinding







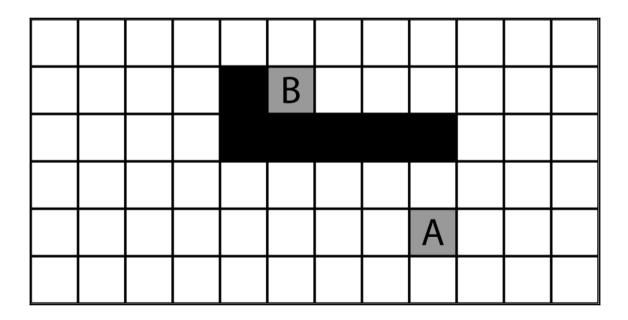


		В				
				Α		

		В				
			¹⁴ 28 42	10 38 48	^{14 48} 62	
			10 38 48	Α	10 52 62	
			^{14 48} 62	10 52 62	14 56 70	

		В					
			28 14 42	24 24 48	28 34 62		
			²⁴ 24 48	¹⁴ 28 42	10 38 48	^{14 48} 62	
			28 34 62	10 38 48	Α	10 52 62	
				^{14 48} 62	10 52 62	14 56 70	

			38 10 48				
		48		48	62		
		42 20 62	²⁴ 24 48	¹⁴ 28 42	10 38 48	^{14 48} 62	
			62	10 38 48	A	10 52 62	
				¹⁴ 48 62	10 52 62	14 56 70	



		В				
			¹⁴ 28 42	10 38 48	¹⁴ 48 62	
			10 38 48	Α	10 52 62	
			¹⁴ 48 62	10 52 62	14 56 70	

		В					
			24 24 48	14 28 42	10 38 48	14 48 62	
			²⁸ 34 62	10 38 48	Α	10 52 62	
				¹⁴ 48 62	10 52 62	14 56 70	

		В					
		34 20 54	24 24 48	14 28 42	10 38 48	14 48 62	
		³⁸ 30 68	²⁸ 34 62	10 38 48	A	10 52 62	
					10 52 62	14 56 70	

		В					
						²⁴ 44 68	
		34 20 54	24 24 48	14 28 42	10 38 48	¹⁴ 48 62	
		38 30 68	²⁸ 34 62	10 38 48	Α	10 52 62	
				¹⁴ 48 62	10 52 62	14 56 70	

		В					
						²⁴ 44 68	
		³⁴ 20 54	24 24 48	14 28 42	10 38 48	14 48 62	
		38 30 68	²⁰ 34 54	10 38 48	Α	10 52 62	
			²⁴ 44 68	^{14 48} 62	10 52 62	14 56 70	

			В					
							²⁴ 44 68	
		44 24 68	34 20 54		14 28 42		14 48 62	
		48 34 82	38 30 68	^{20 34} 54	10 38 48	Α	10 52 62	
				²⁴ 44 68	¹⁴ 48 62	10 52 62	14 56 70	

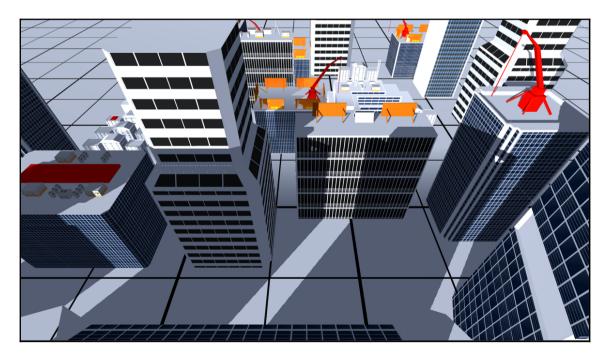
			В					
							²⁴ 44 68	
		44 24 68	34 20 54	24 24 48			¹⁴ 48 62	
		⁴⁸ 34 82		²⁰ 34 54	10 38 48	Α	10 52 62	
			³⁴ 40 74	²⁴ 44 68	¹⁴ 48 62	10 52 62	14 56 70	

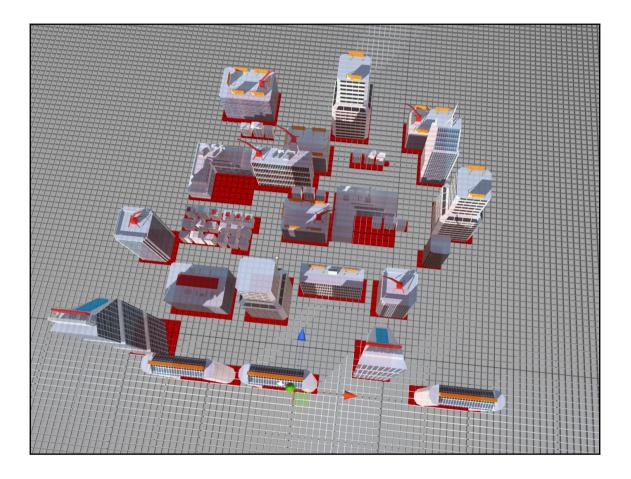
			В					
							²⁴ 44 68	
		44 24 68	34 20 54		14 28 42			
		48 34 82		20 34 54	10 38 48	Α	10 52 62	
		44 44 88	³⁴ 40 74	²⁴ 44 68	¹⁴ 48 62	10 52 62	14 56 70	

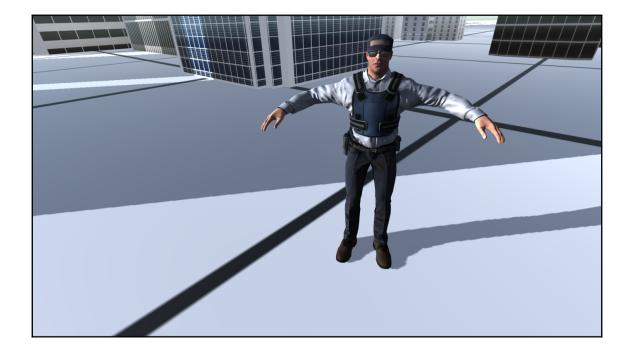
			В			³⁸ 30 68	34 40 74	38 50 88	
	58 24 82						24 44 68	28 54 82	
	54 28 82	44 24 68	³⁴ 20 54	24 24 48	14 28 42	10 38 48	14 48 62	^{24 58} 82	
	58 38 96	⁴⁸ 34 82	30 30 60	²⁰ 34 54	10 38 48	Α	10 52 62	20 62 82	
		44 44 88	³⁴ 40 74	²⁴ 44 68	¹⁴ 48 62	10 52 62	14 56 70	24 66 90	

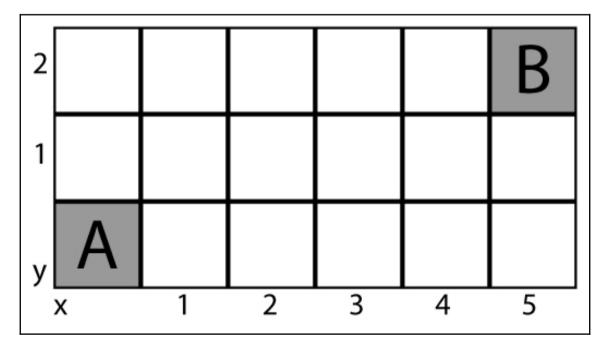
			72 10 82	62 14 76	52 24 76	⁴⁸ 34 82	52 44 96		
			68 0 68	58 10 68	48 20 68	38 30 68	³⁴ 40 74	38 50 88	
	58 24 82						²⁴ 44 68	^{28 54} 82	
	54 28 82	44 24 68	34 20 54	24 24 48	14 28 42	10 38 48	14 48 62	24 58 82	
	58 38 96	⁴⁸ 34 82	30 30 60	20 34 54	10 38 48	Α	10 52 62	20 62 82	
		44 44 88	³⁴ 40 74	²⁴ 44 68	¹⁴ 48 62	10 52 62	14 56 70	24 66 90	

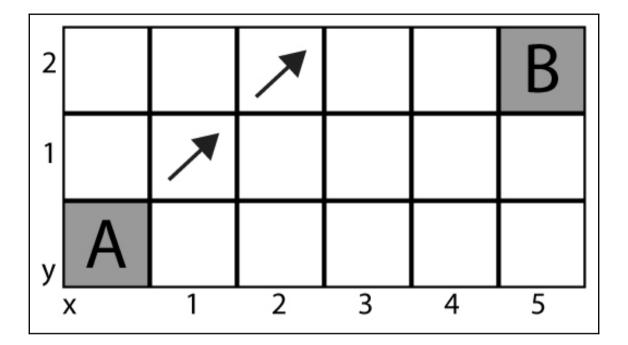


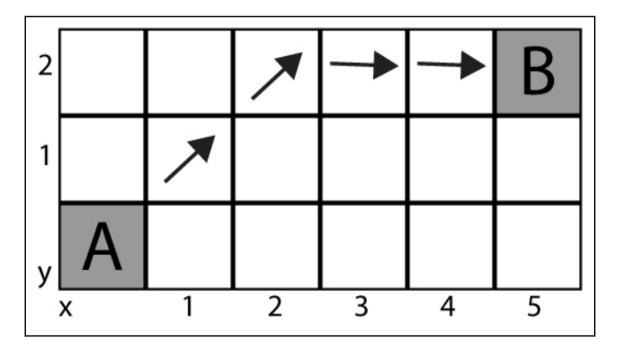


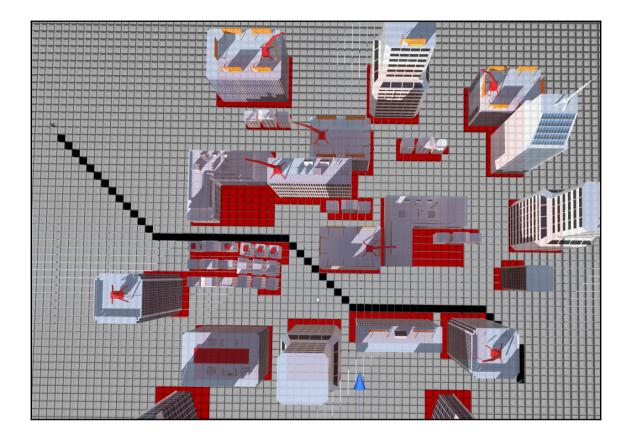


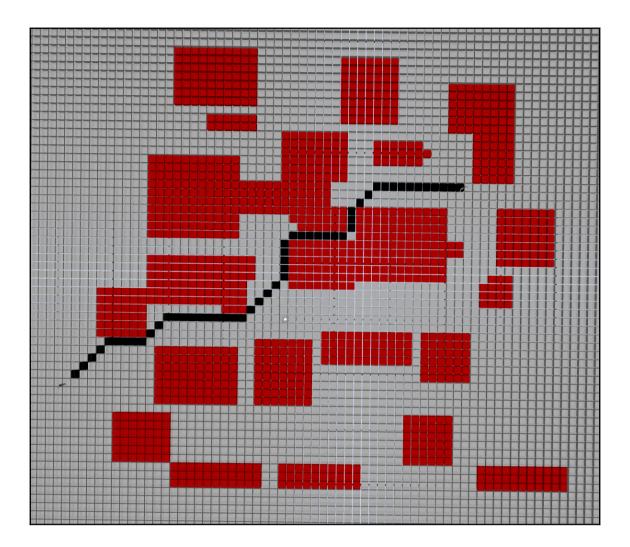








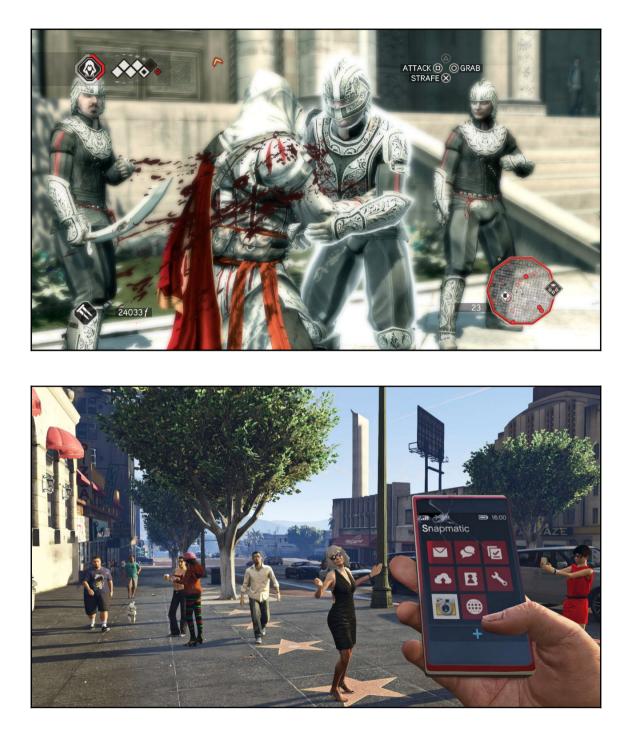






Chapter 8: Crowd Interactions

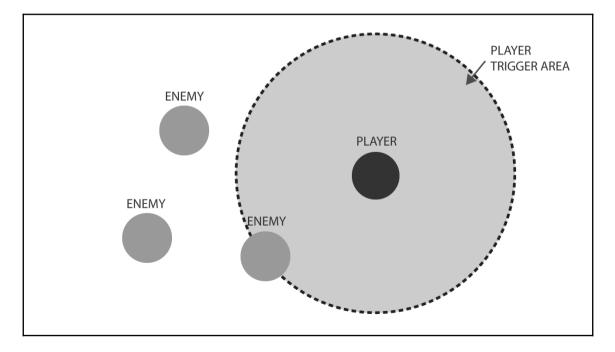


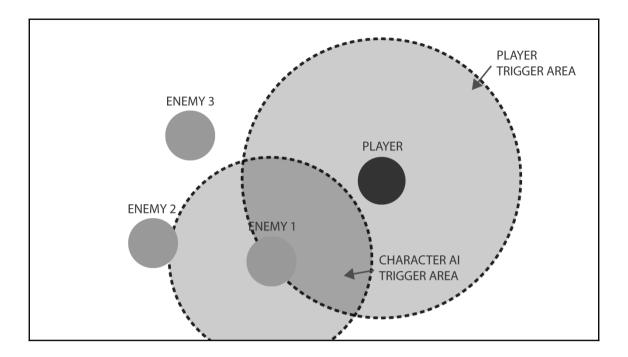


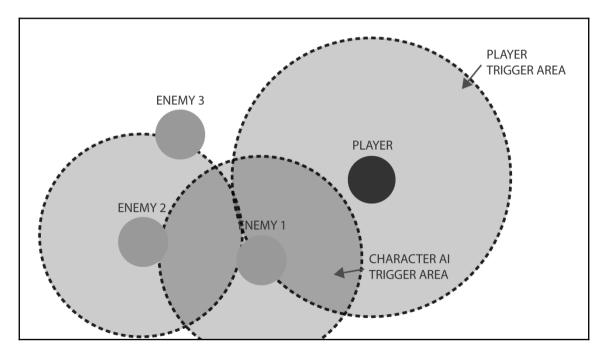


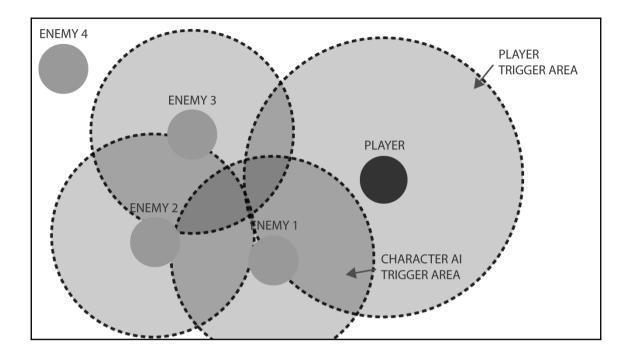




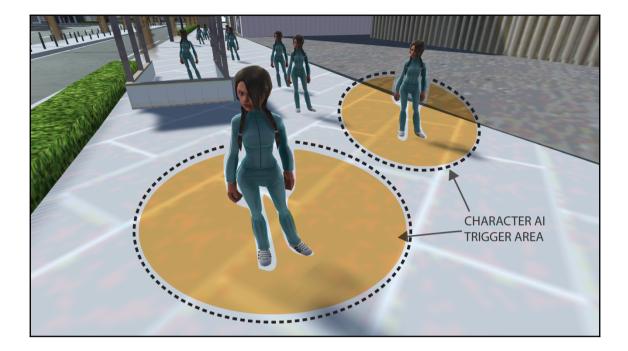


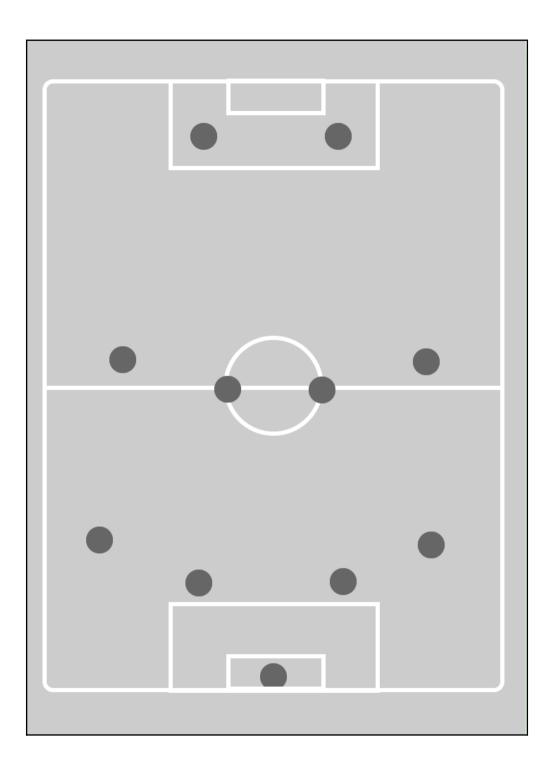


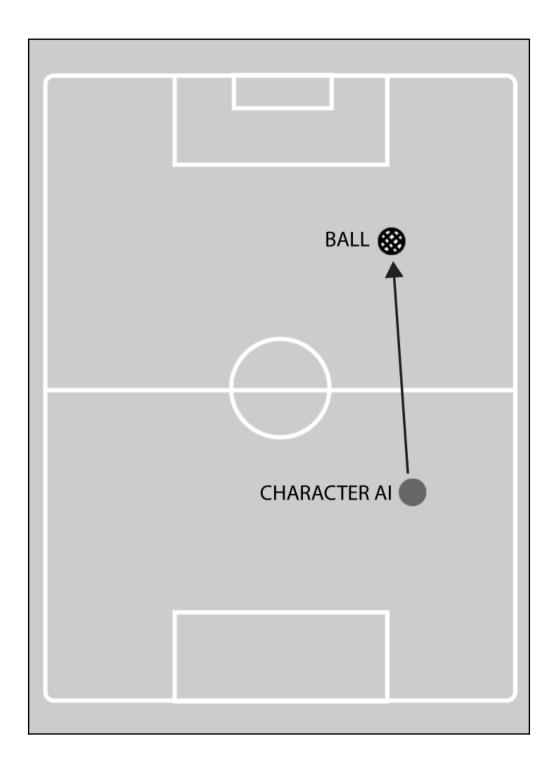


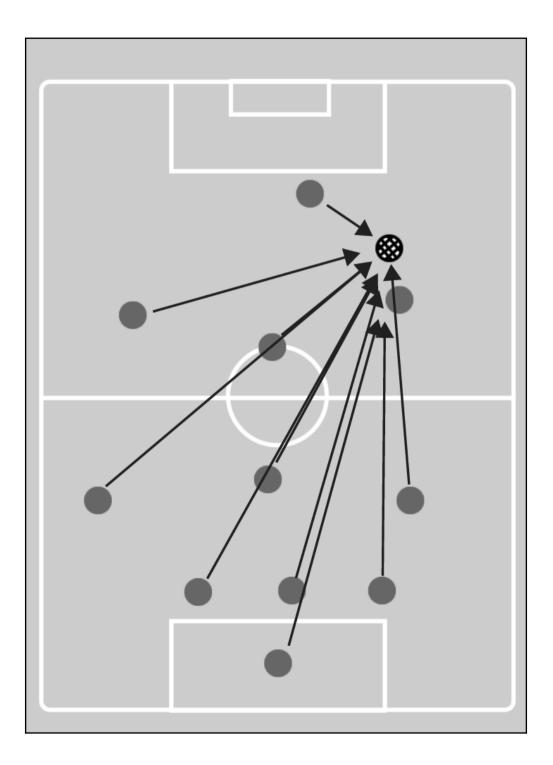


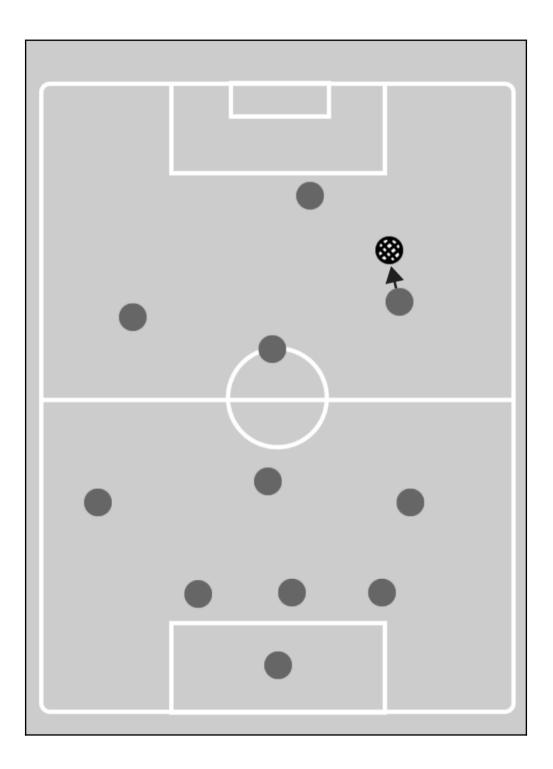


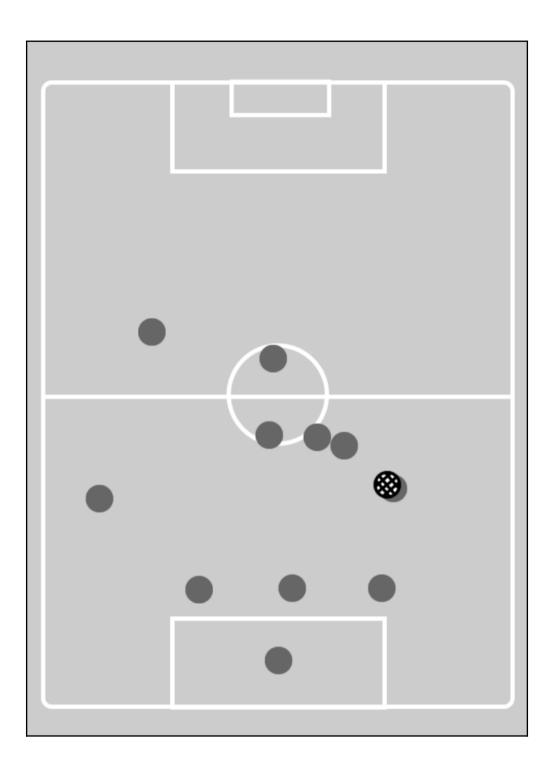


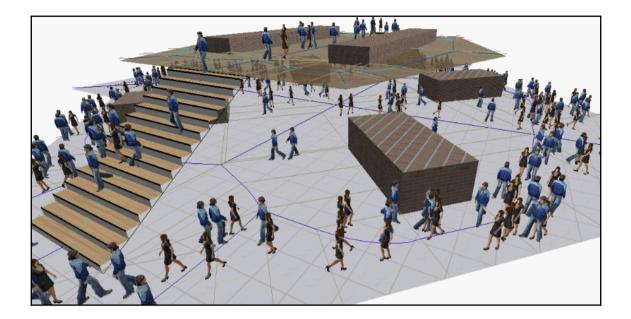


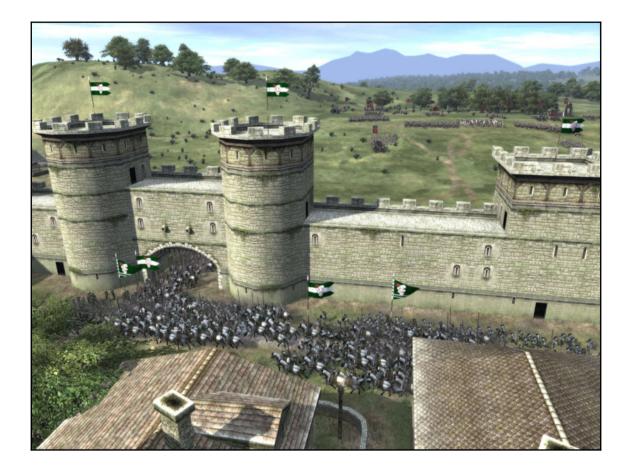


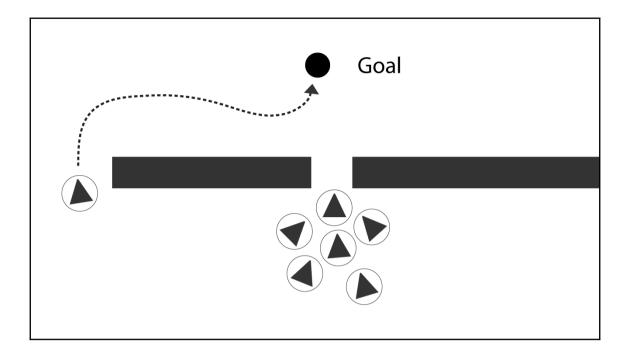




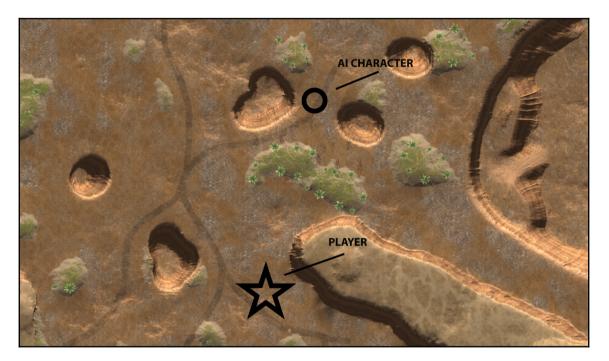


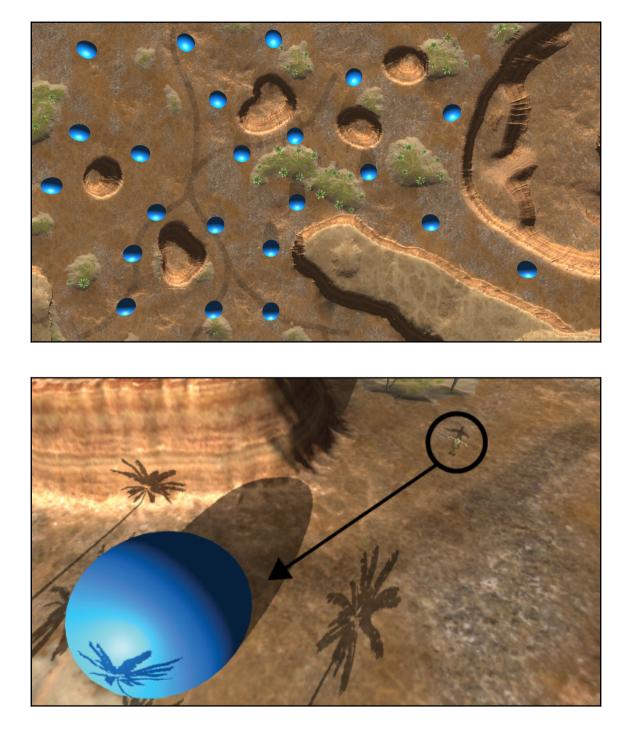






Chapter 9: AI Planning and Collision Avoidance



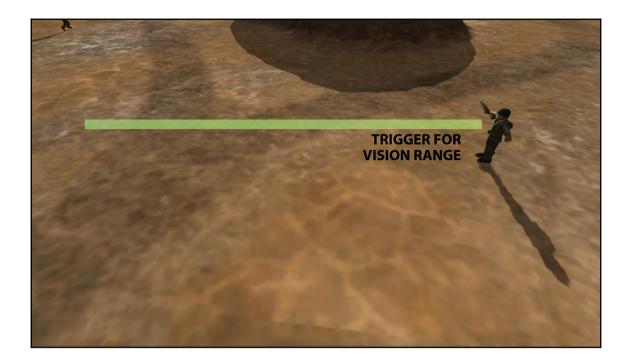


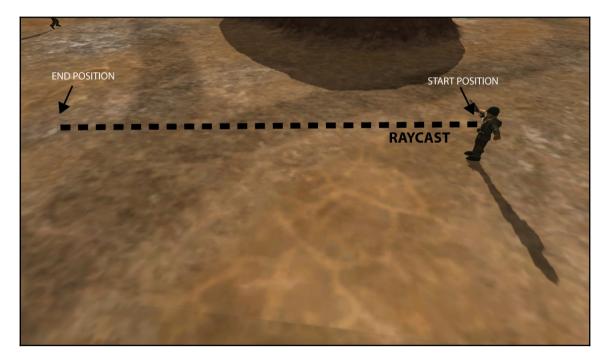




IF(FOUND == FALSE) THEN THE CHARACTER NEEDS TO KEEP MOVING AROUND SEARCHING FOR THE PLAYER.

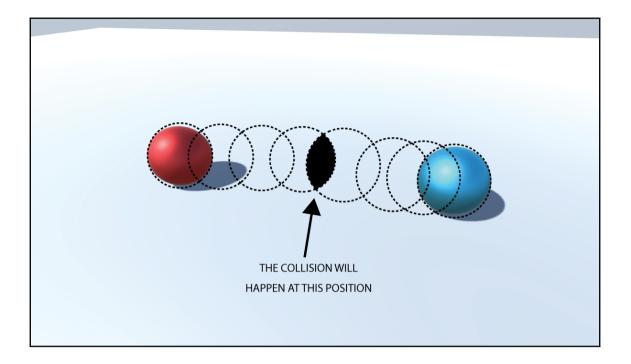


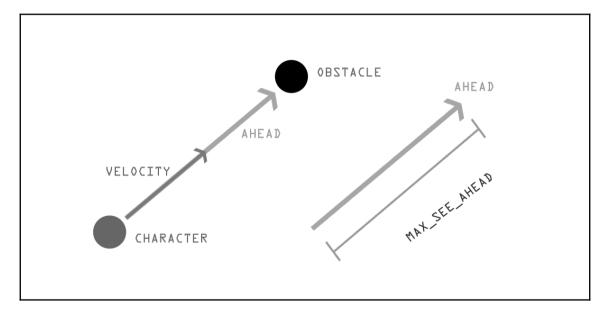


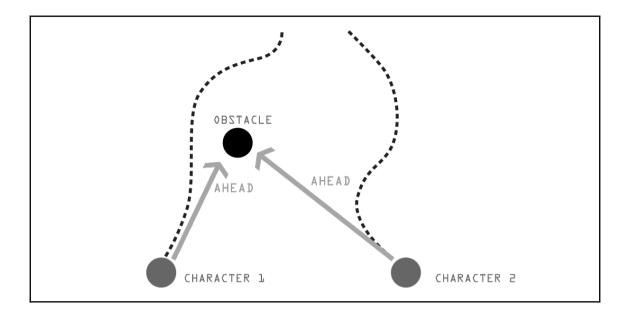


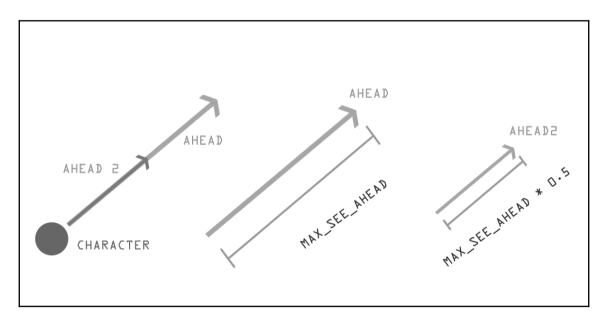


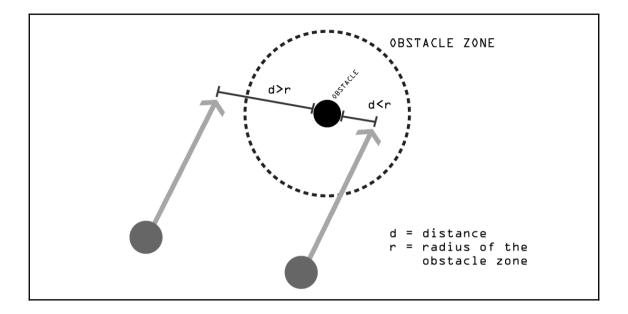


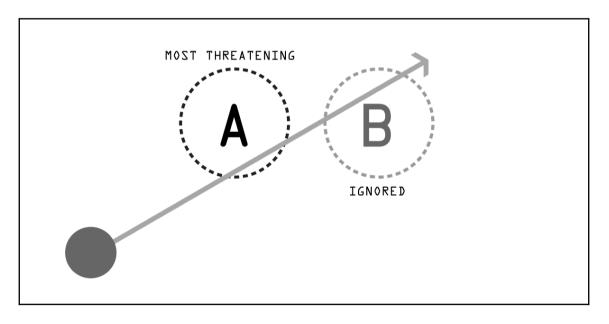


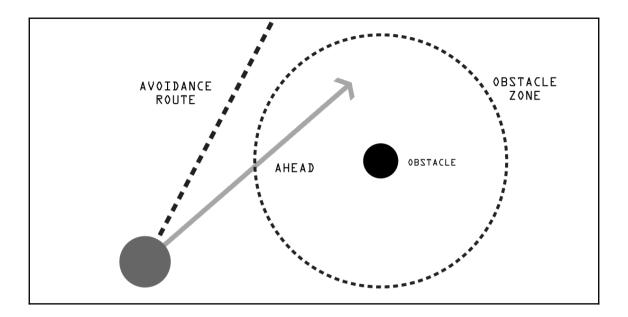








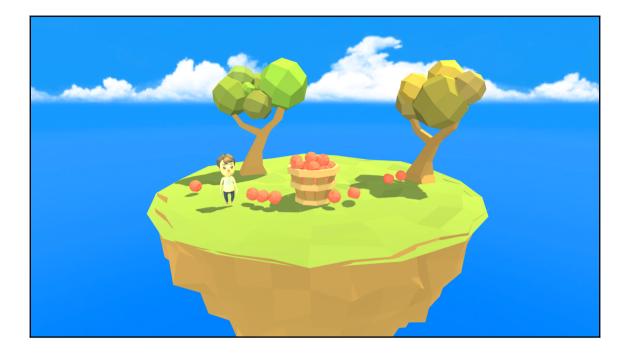




Chapter 10: Awareness

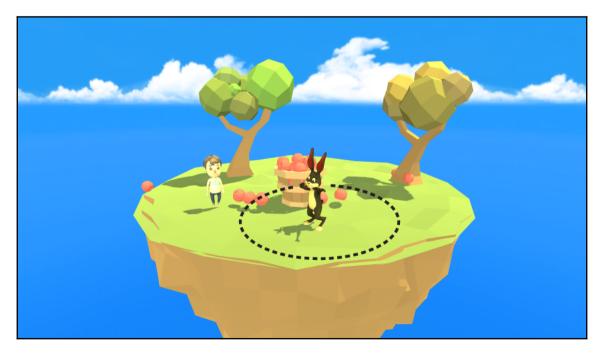


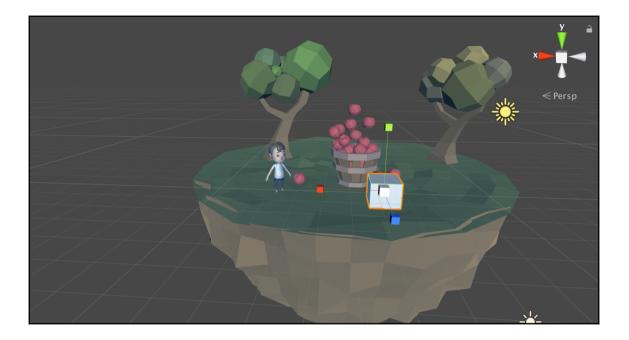


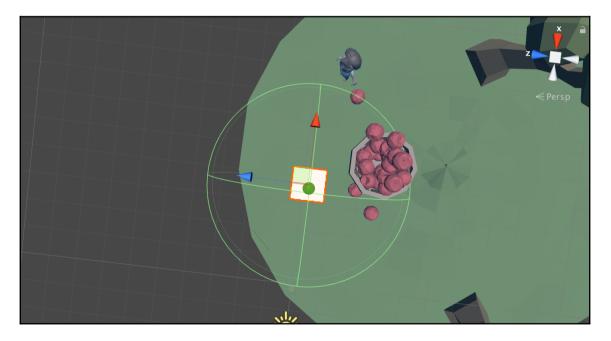


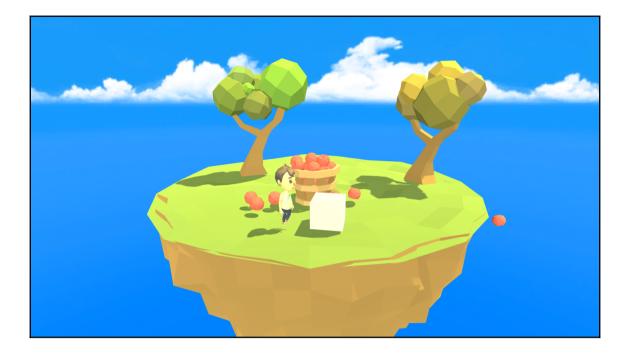






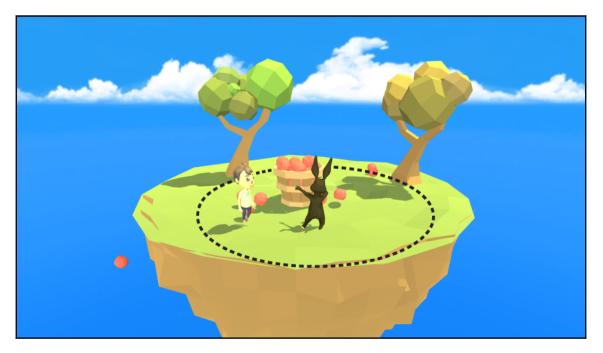




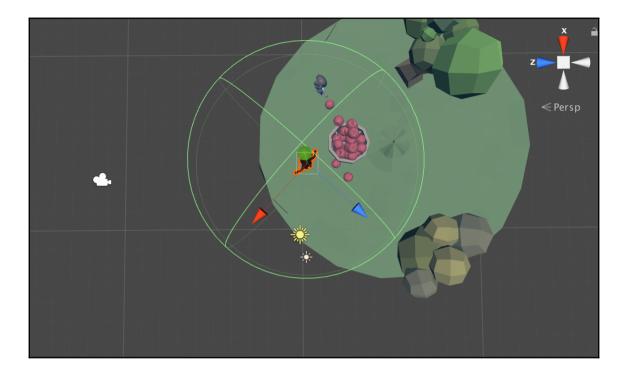


① Player Detected

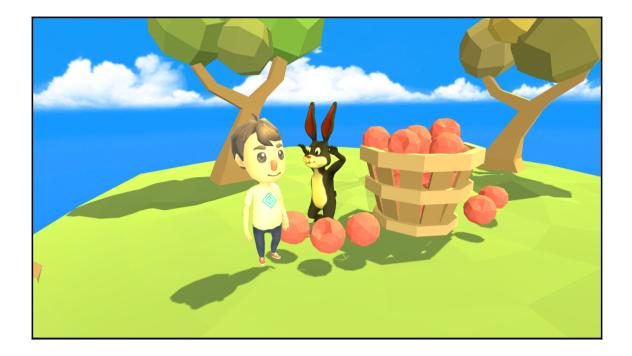




🔻 🍛 🗹 Sphere Co	ollider	¢.,
	🔥 Edit Collider	
Is Trigger		
Material	None (Physic Materia	Э
Center		
X 0	Y 0 Z 0	
Radius	14.6	
Add Component		



① I can see the player

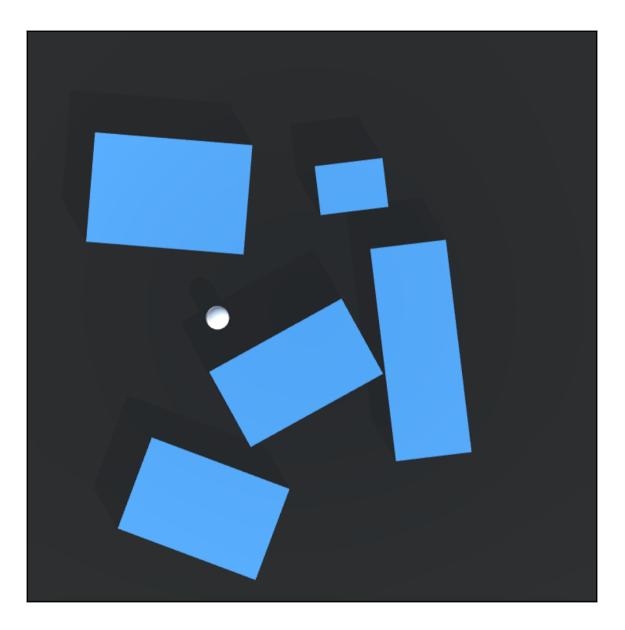


I can see the player UnityEngine.Debug:Log(Object)	1
① I can see the player UnityEngine.Debug:Log(Object)	233
I've lost the player UnityEngine.Debug:Log(Object)	1





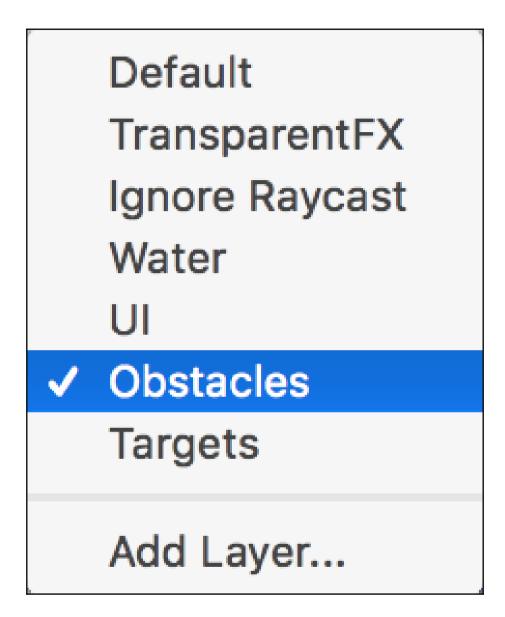




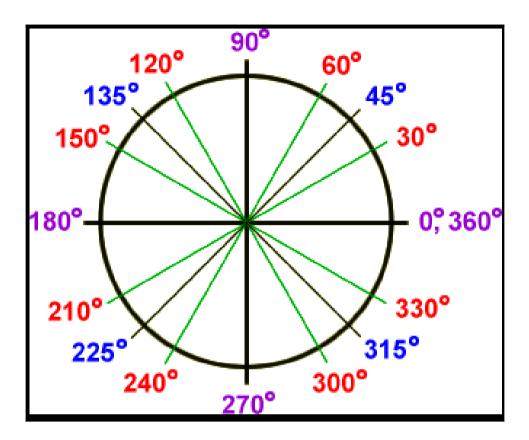


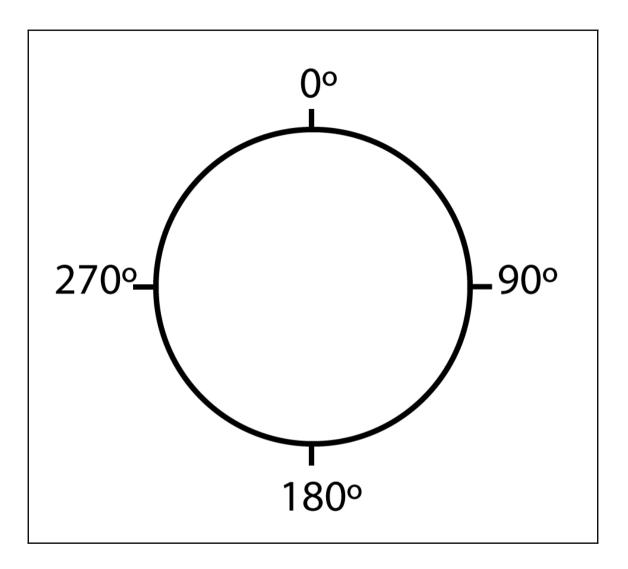
Layers 🔹	Layout	•	·
Layers			
Everything		9	
Nothing		1	
Default		T	$\widehat{}$
TransparentFX		T	
Ignore Raycast	:	T	$\widehat{}$
Water		9	
UI		9	$\widehat{}$
Obstacles		9	
Targets		Ð	
Edit Layers			

Inspector	≙ -
Tags & Laye	rs 🔊 🔯
 Tags Sorting Layers Layers 	
Builtin Layer 0	Default
Builtin Layer 1	TransparentFX
Builtin Layer 2	Ignore Raycast
Builtin Layer 3	
Builtin Layer 4	Water
Builtin Layer 5	UI
Builtin Layer 6	
Builtin Layer 7	
User Layer 8	Obstacles
User Layer 9	Targets
User Layer 10	
User Layer 11	
User Layer 12	
User Layer 13	
User Layer 14	
User Layer 15	
User Layer 16	



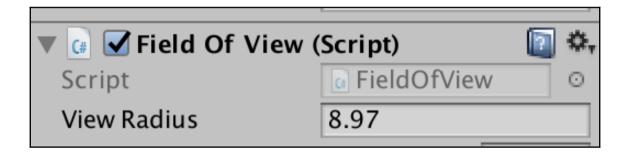
🔻 🙏 🛛 Rigidbody	🔯 🌣,
Mass	1
Drag	0
Angular Drag	0.05
Use Gravity	
Is Kinematic	
Interpolate	None 🗘
Collision Detection	Discrete 😫
Constraints	
Freeze Position	🗌 X 🗌 Y 🔲 Z
Freeze Rotation	🗹 X 🗹 Y 🗹 Z

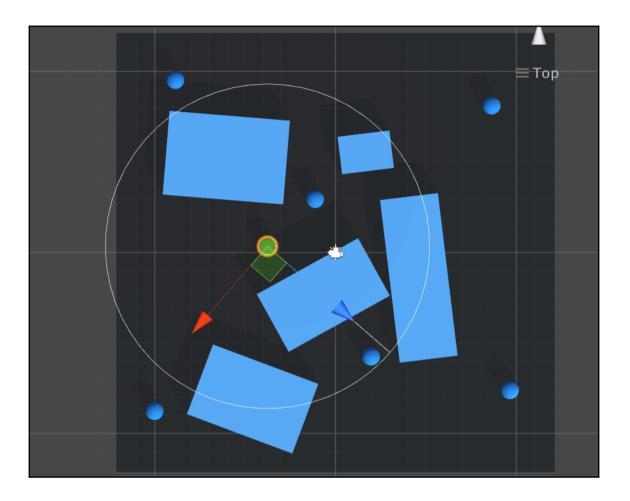




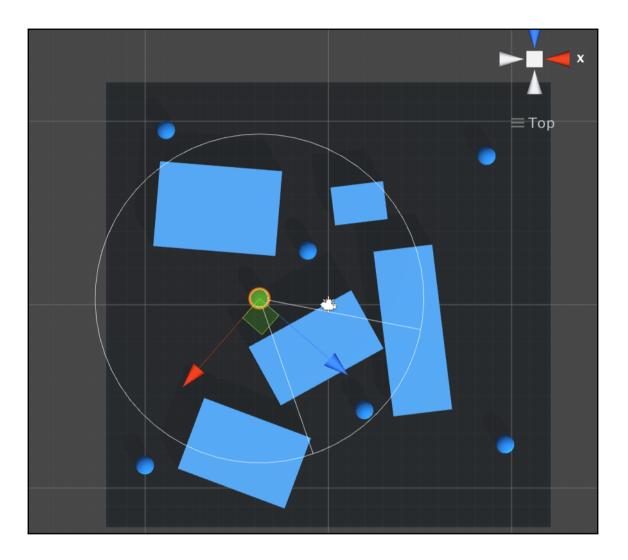
	Folder
	C# Script Javascript Shader Testing
	Scene Prefab
Create >	Audio Mixer
Reveal in Finder Open Delete Open Scene Additive	Material Lens Flare Render Texture Lightmap Parameters
Import New Asset	Sprites
Import Package Export Package Find References In Scene Select Dependencies	Animator Controller Animation Animator Override Controller Avatar Mask
Refresh #R Reimport	Physic Material Physics Material 2D
Reimport All	GUI Skin
Run API Updater	Custom Font
Open C# Project	Legacy 🕨

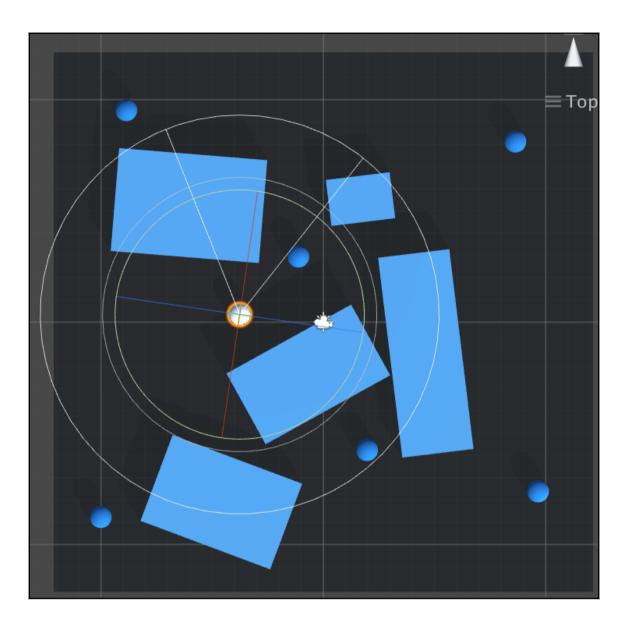
Editor	Materials	Scenes	Scripts



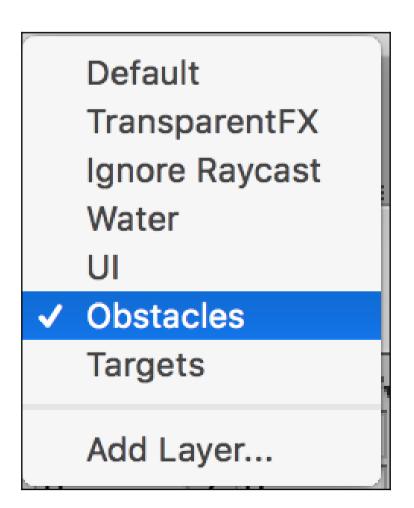








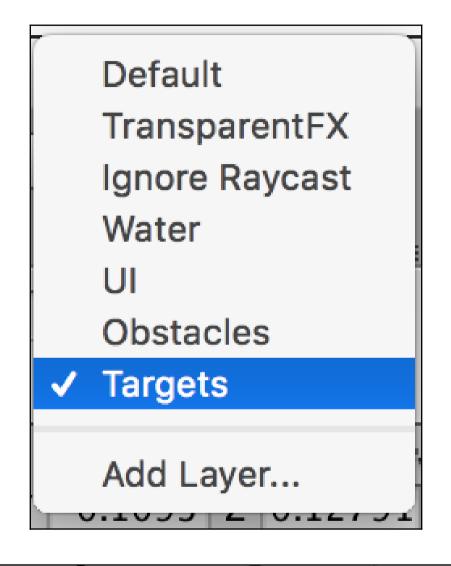
▼ Obstacles	
Cube	
Cube (1)	
Cube (2)	
Cube (3)	
Cube (4)	



▼ Targets

Target

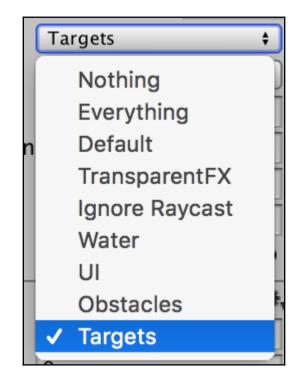
- Target (1) Target (2)
- Target (3)
- Target (4)
- Target (5)



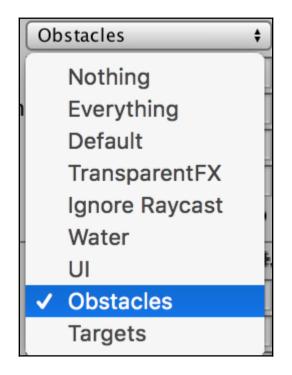
Target Mask

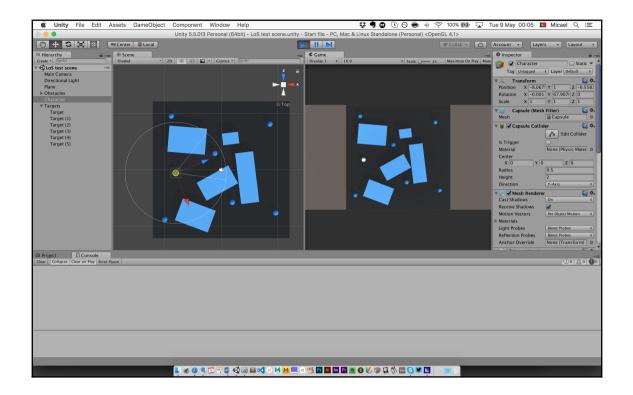
Nothing

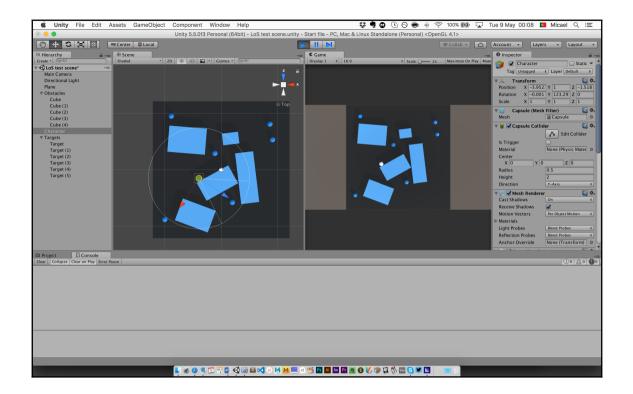
ŧ

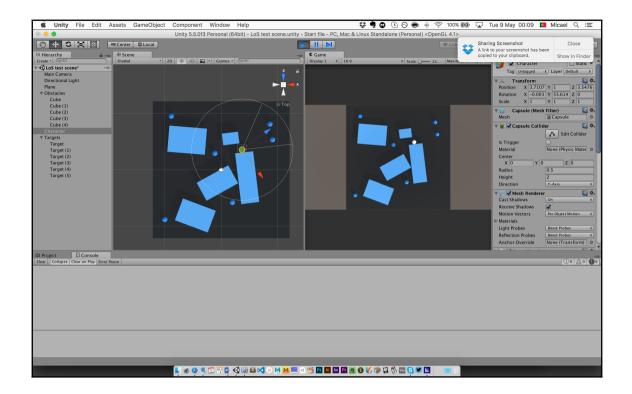


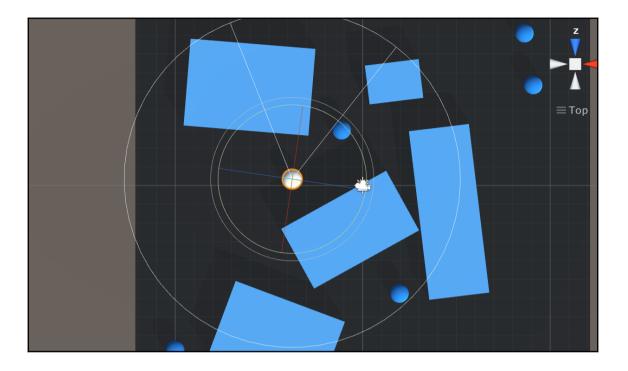




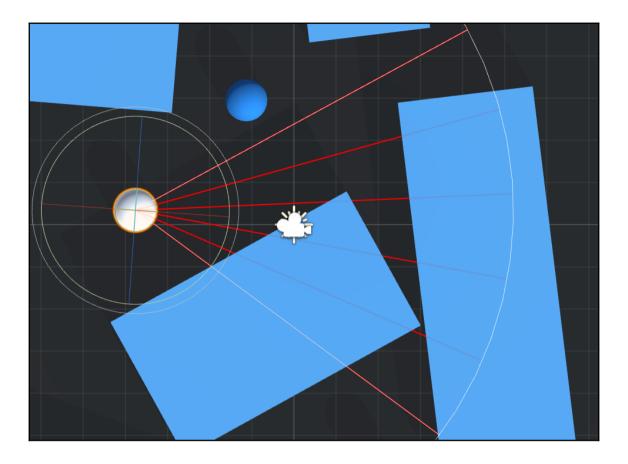


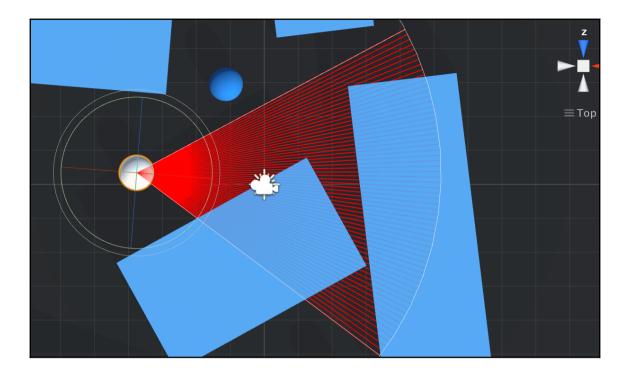


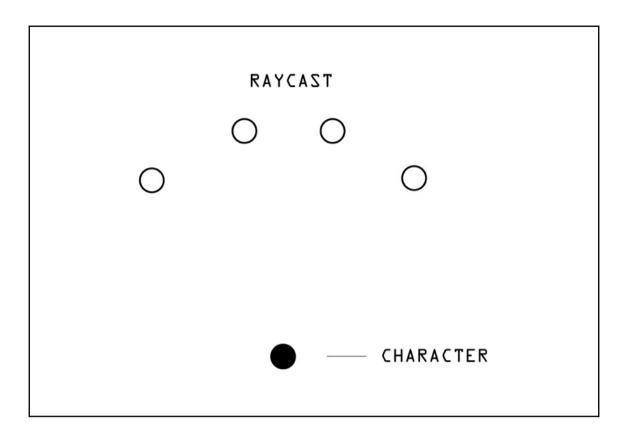


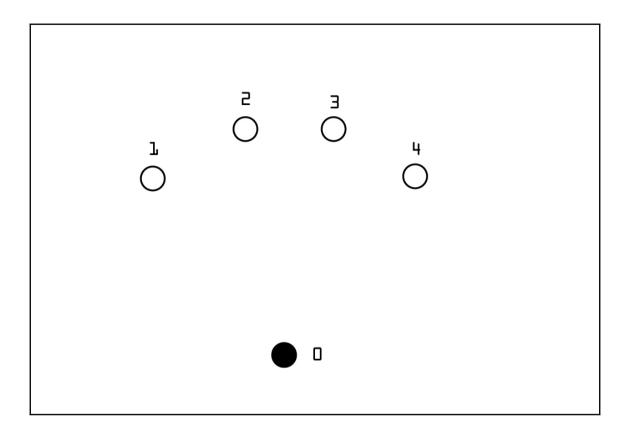


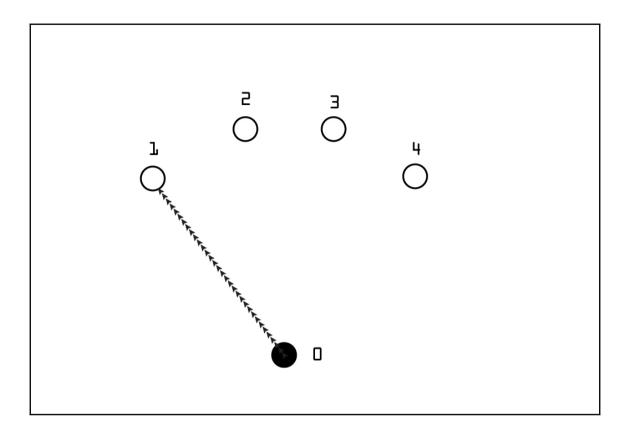
🔻 🕢 Field Of View (Script) 🛛 🔯 🗱			
Script	G FieldOfView O		
View Radius	8.97		
View Angle			
Target Mask	Targets 🛟		
Obstacle Mask	Obstacles \$		
Mesh Resolution	0.08		

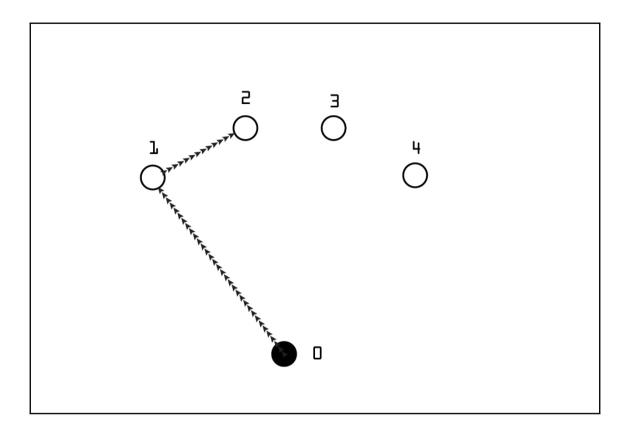


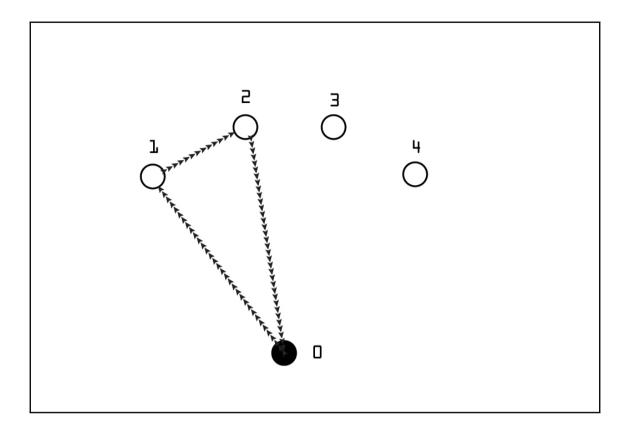


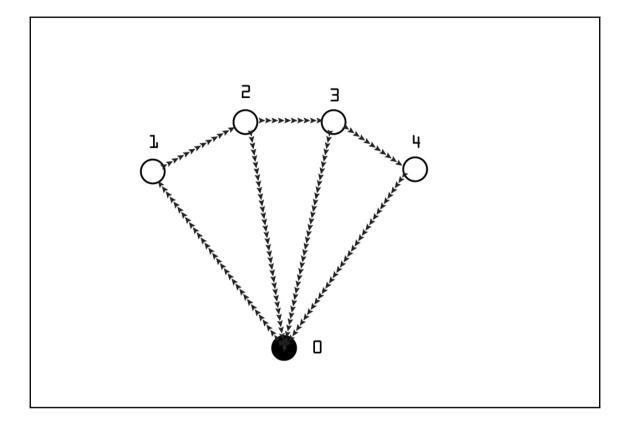


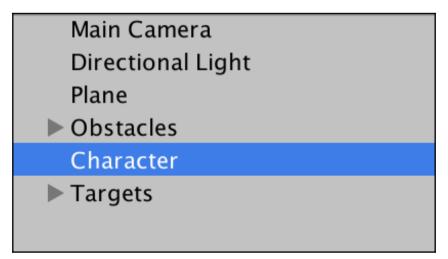












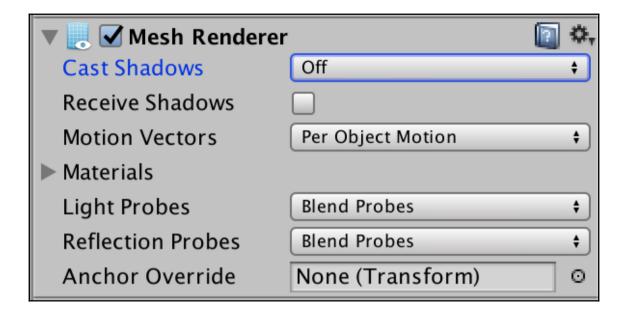
GameObject	Componen	nt Wi
Create Empty		፞∂
Create Empty Child		C企N
3D Object		
2D Object		
Light		
Audio		
UI		
Particle System		
Camera		
Center On Children		

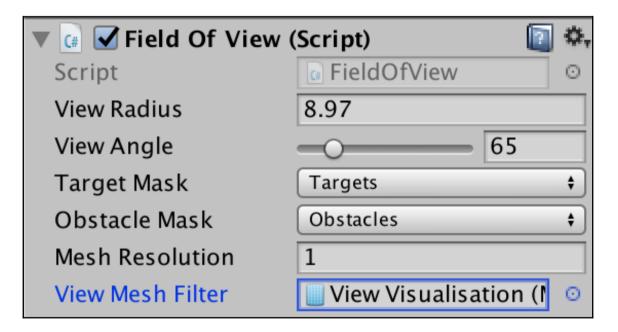
Character

View Visualisation

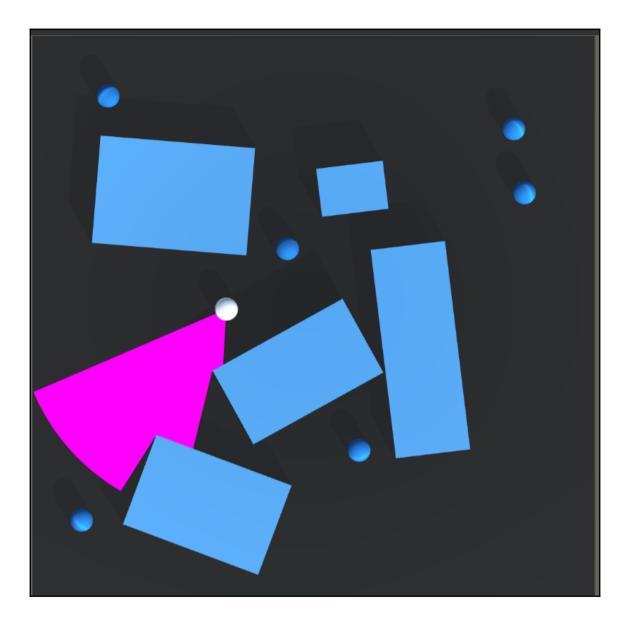
Component	Window H	elp
Add	☆₩A	bit) - Chapter 10.unity - Start fil
Mesh		Mesh Filter
Effects	•	Text Mesh
Physics Physics 2D Navigation Audio Rendering Layout Miscellaned Analytics Scripts Event Network UI AR		Mesh Renderer Skinned Mesh Renderer

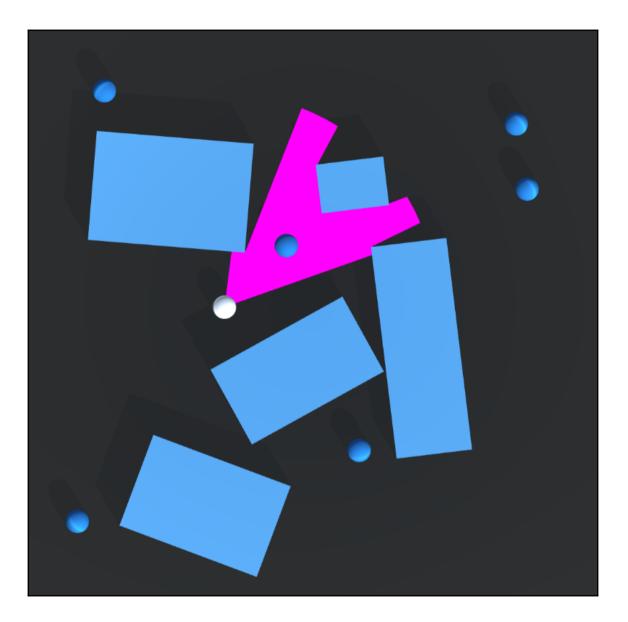
Component	Window H	elp
Add	Ω₩А	bit) - Chapter 10.unity - Start file
Mesh		Mesh Filter
Effects	•	Text Mesh
Physics	•	Mash Dandaran
Physics 2D		Mesh Renderer
Navigation	•	Skinned Mesh Renderer
Audio	•	Di
Rendering		Pla
Layout		
Miscellaneous 🕨		≡ Top
Analytics 🕨		► Ta
Scripts		
Event	•	
Network	•	
UI	•	
AR		

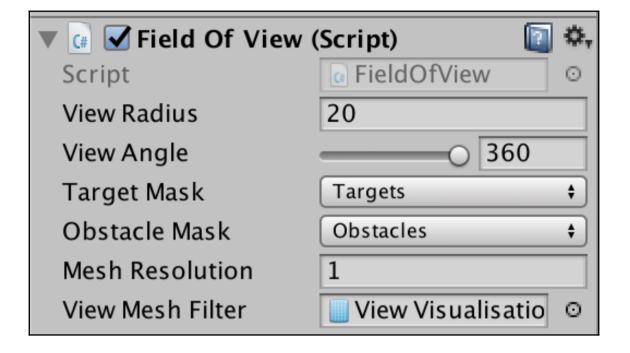












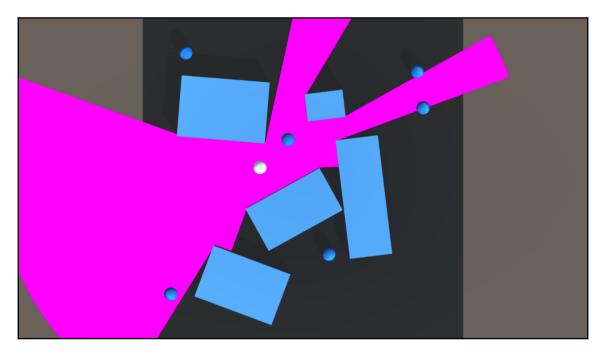




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