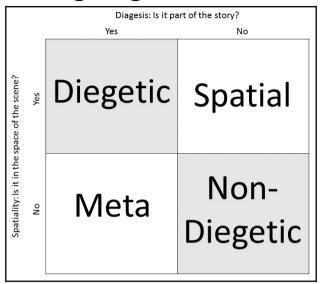
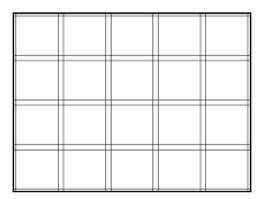
## **Chapter 1: Designing User Interfaces**

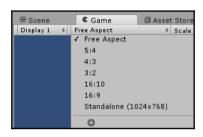


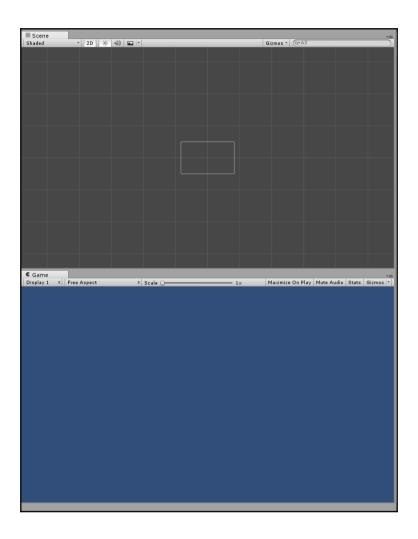


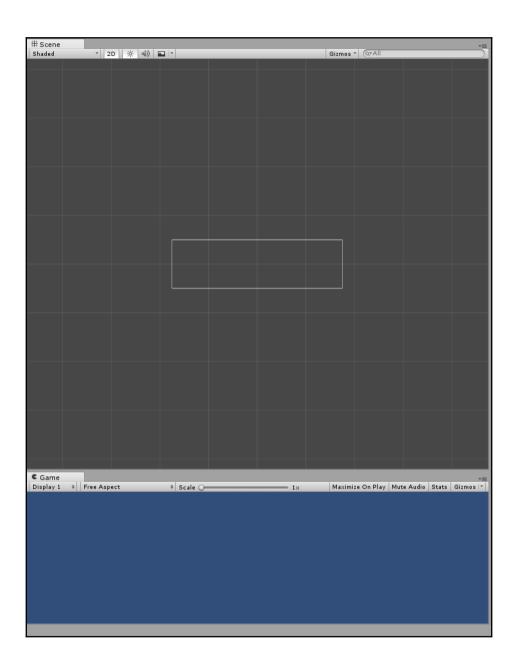


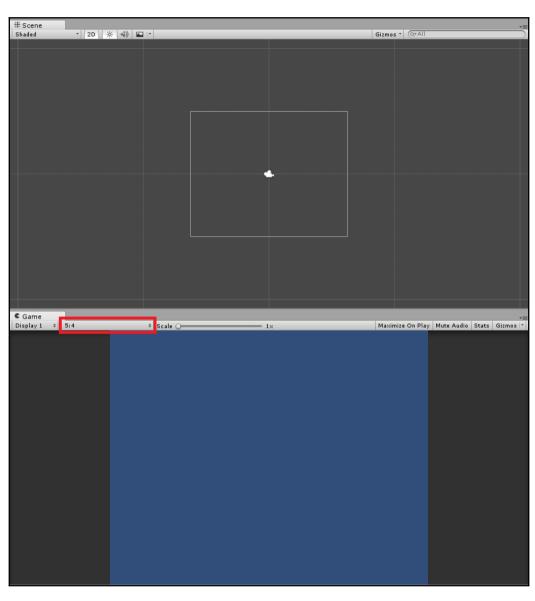
 $\frac{1024px}{768px} = \frac{4}{3}$ 

Aspect Ratio 3:2	Resolution			
	720x480	1280x854	1440x960	2880x1920
	1152x768			
4:3	640x480	1024x768	1440x1080	1920x1440
	800x600	1280x960	1600x1200	2048x1536
	960x720	1400x1050	1856x1392	
5:3	1280x768	3000x1800		
5:4	1280x1024	2560x2048	5120x4096	
16:9	1024x576	1280x720	1600x900	2560x1440
	1152x648	1366x768	1920x1080	3840x2160
16:10	640x400	1440x900	1920x1200	3840x2400
	1280x800	1680x1050	2560x1600	

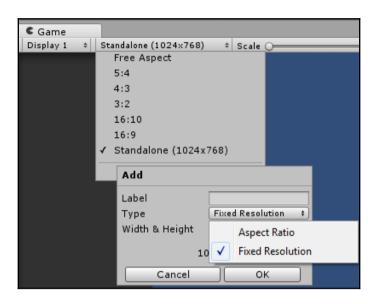


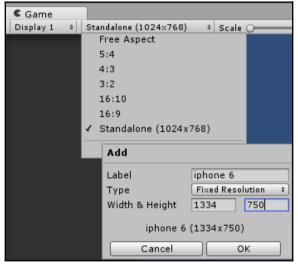






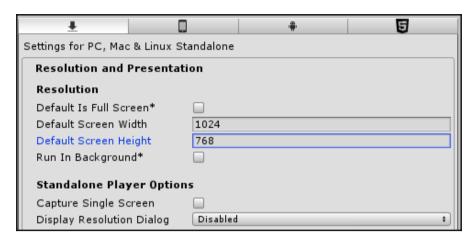


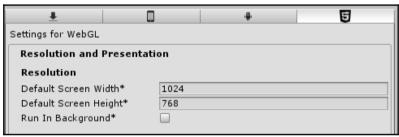






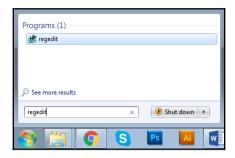


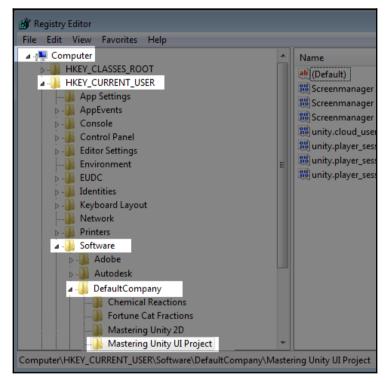


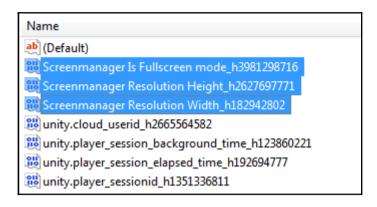


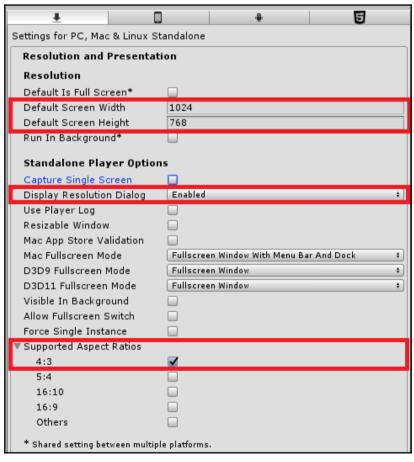


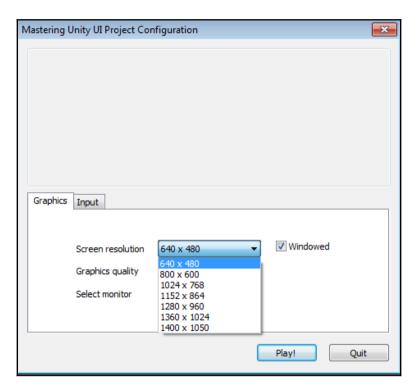


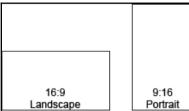


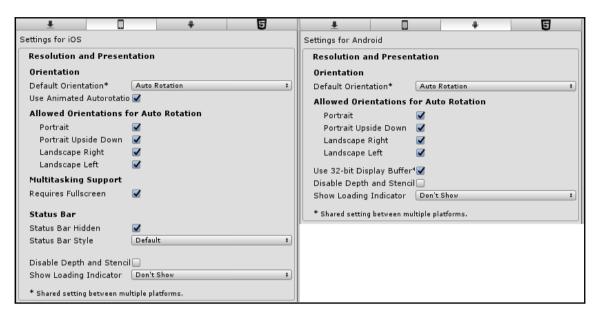


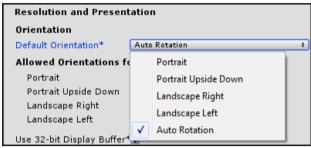


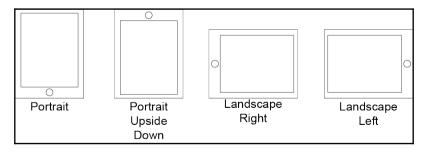






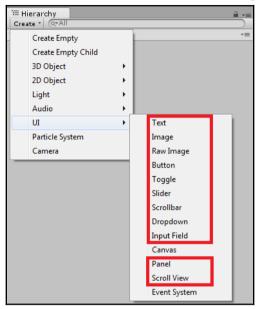


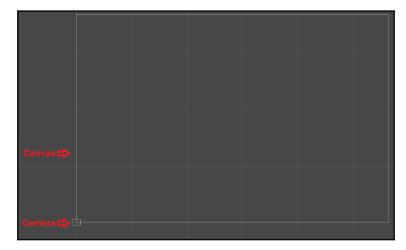


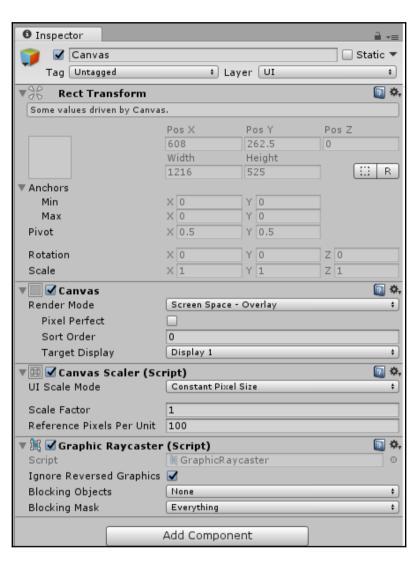


## Allowed Orientations for Auto Rotation Portrait Portrait Upside Down Landscape Right Landscape Left

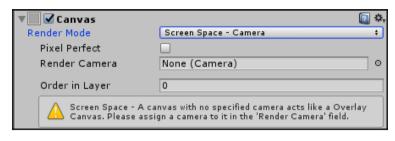
## **Chapter 2: Canvases, Panels, and Basic Layouts**

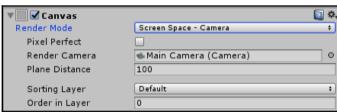






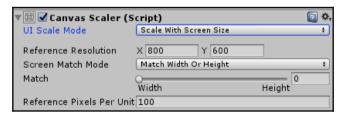


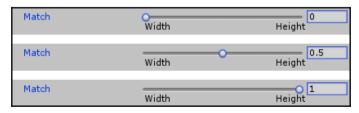


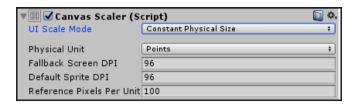






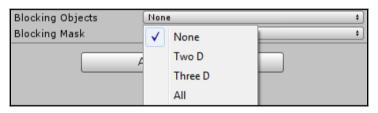




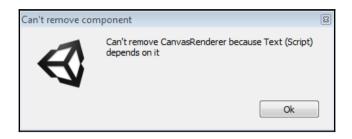


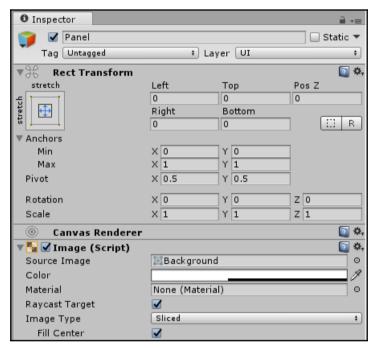




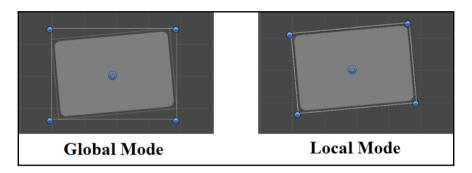


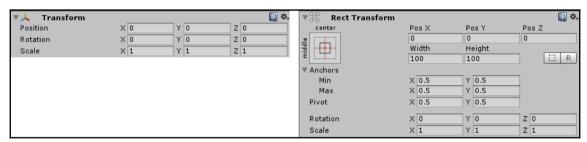


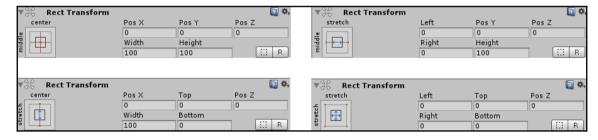




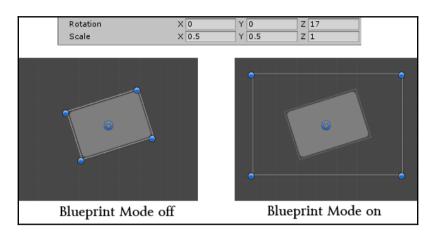




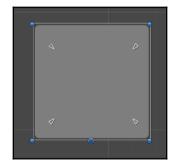


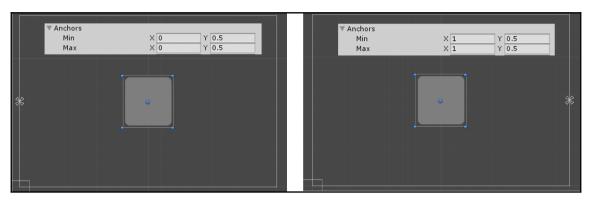


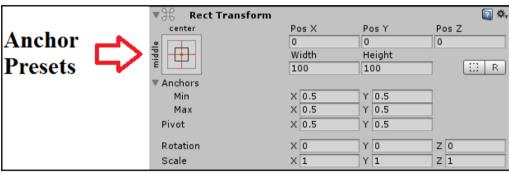


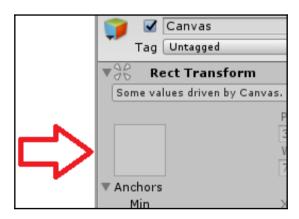


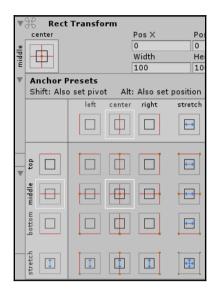


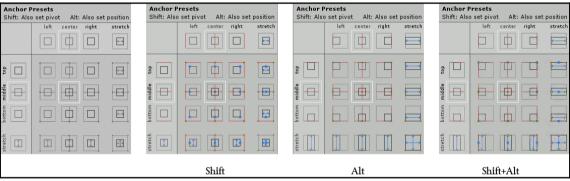


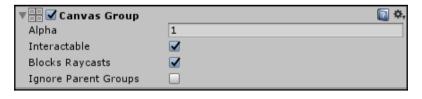


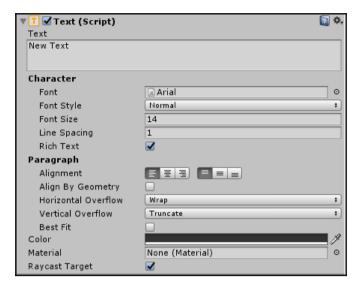


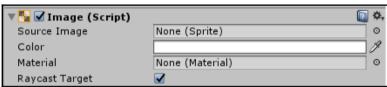




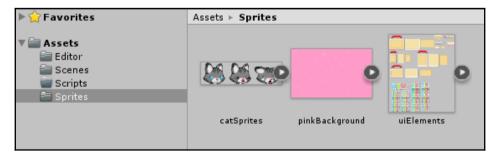


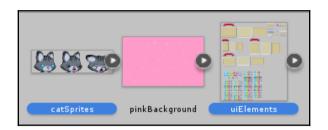


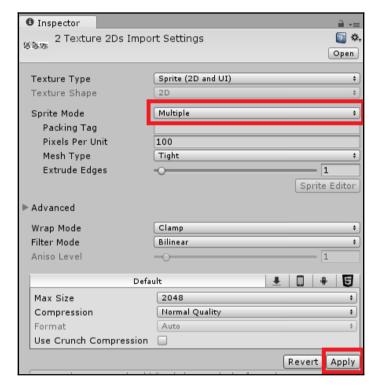




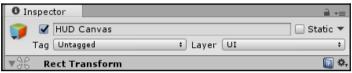


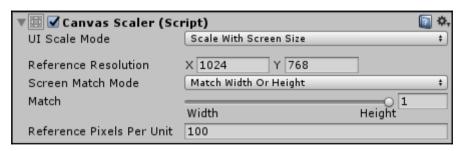


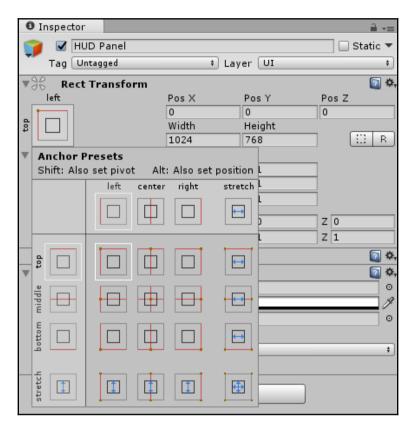




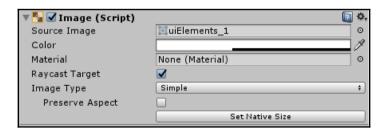


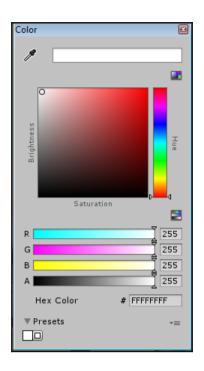


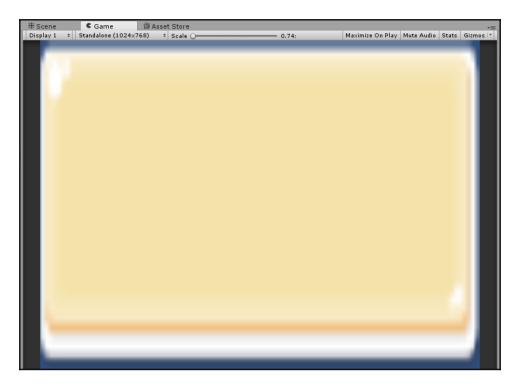


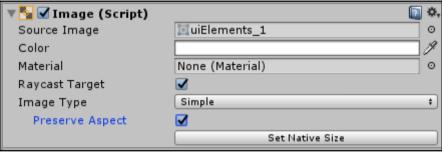




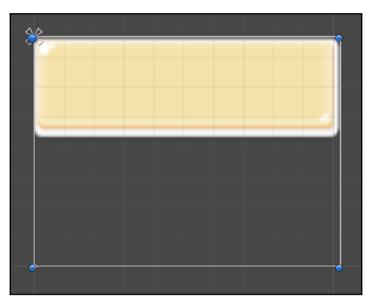


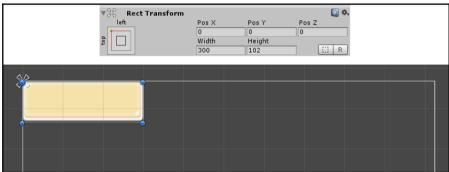


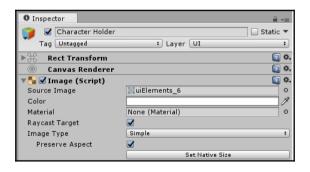


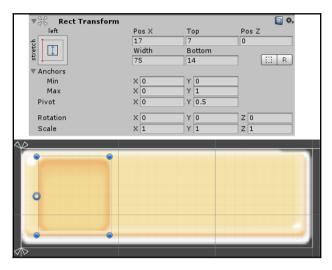


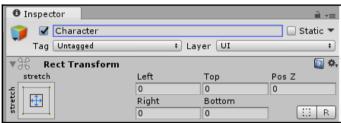


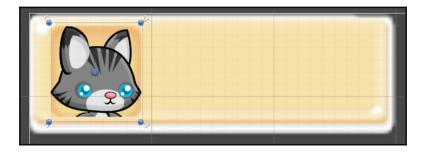


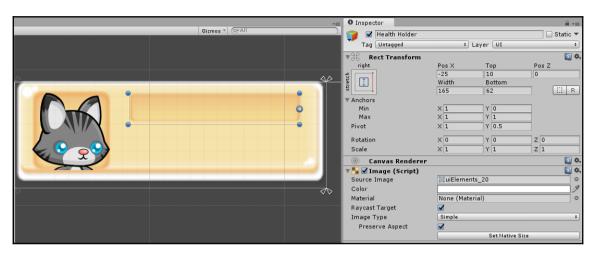


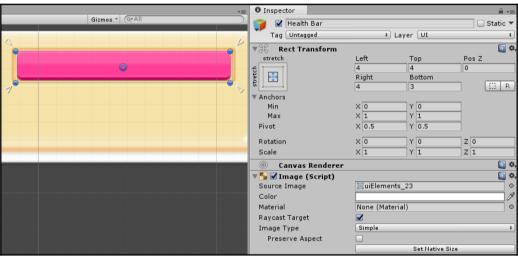


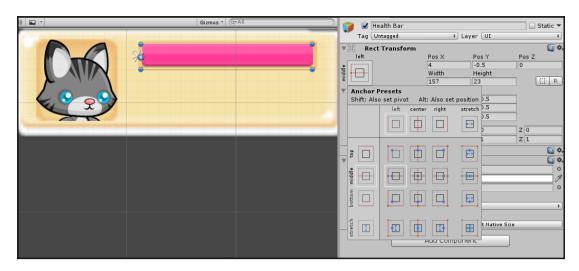


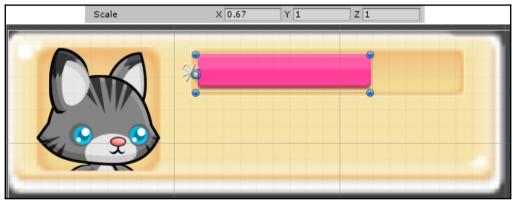




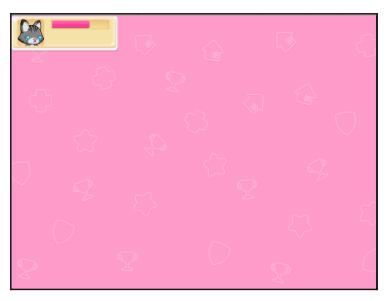






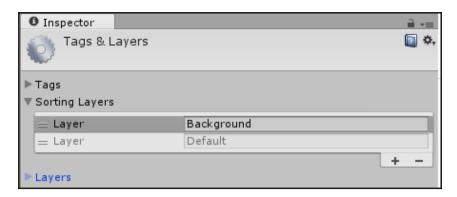


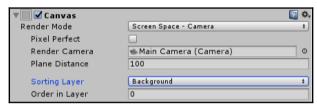
▼ HUD Canvas ▼ HUD Panel ▼ Character Holder Character ▼ Health Holder Health Bar

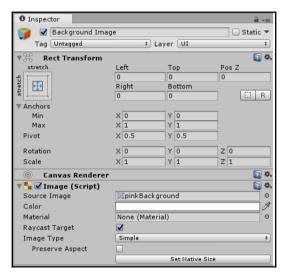




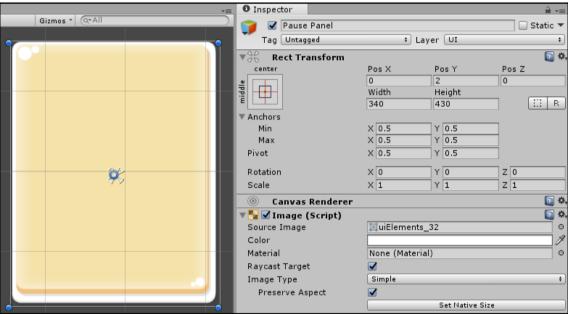


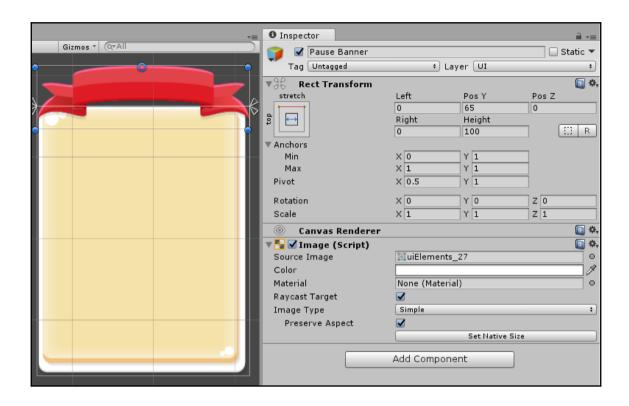








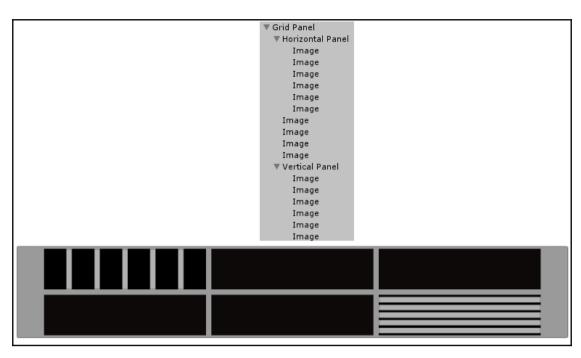


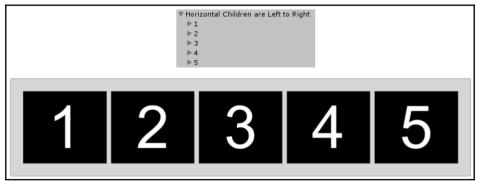


## **Chapter 3: Automatic Layouts**





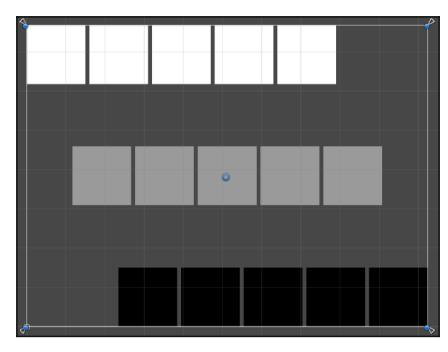




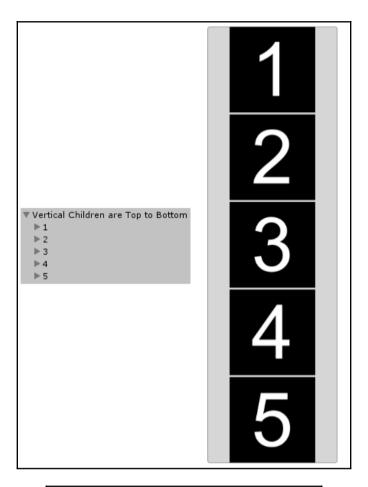
<b>▼Ⅲ ✓ Horizontal La ▼</b> Padding	yout Group	(Script)	<b>a</b> ⇔,
Left	0		
Right	0		
Тор	0		
Bottom	0		
Spacing	0		
Child Alignment	Upper Left		<b>‡</b>
Control Child Size	■ Width	☐ Height	
Child Force Expand	✓ Width	✓ Height	



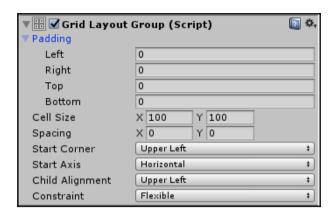


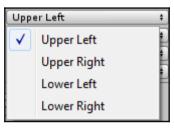


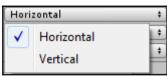


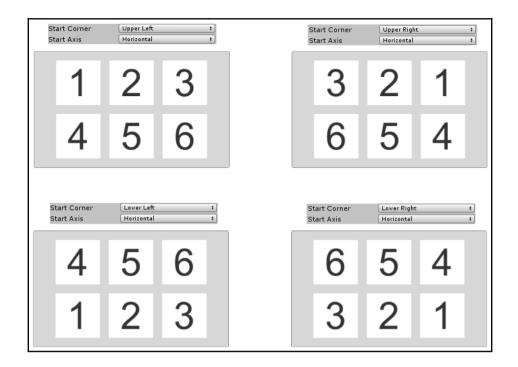


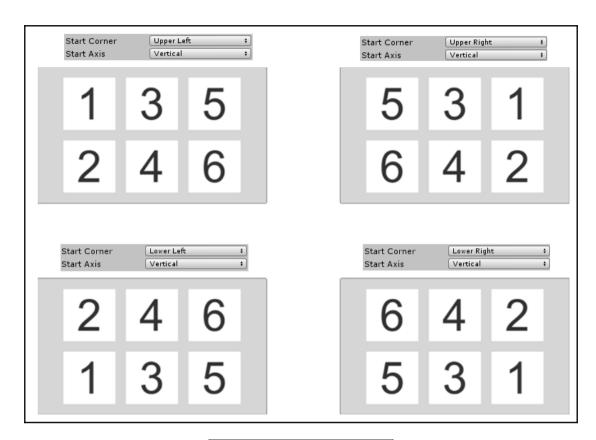
▼ 🗏 🗹 Vertical Layout Group (Script)		
▼ Padding		
Left	0	
Right	0	
Тор	0	
Bottom	0	
Spacing	0	
Child Alignment	Upper Left	
Control Child Size	☐ Width ☐ Height	
Child Force Expand	✓ Width ✓ Height	

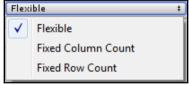




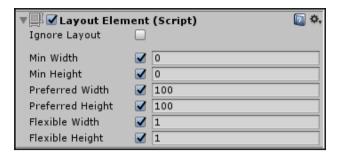


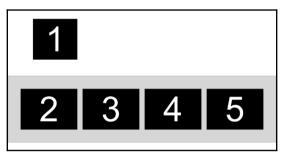




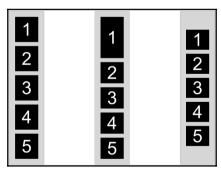


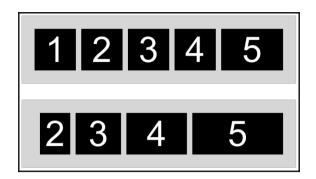
<b>▼</b> ✓ Layout Ele Ignore Layout	ment (Script)	[2] ❖,
Min Width		
Min Height		
Preferred Width		
Preferred Height		
Flexible Width		
Flexible Height		





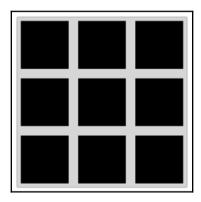


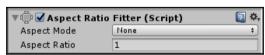




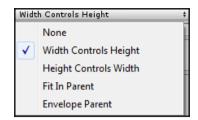






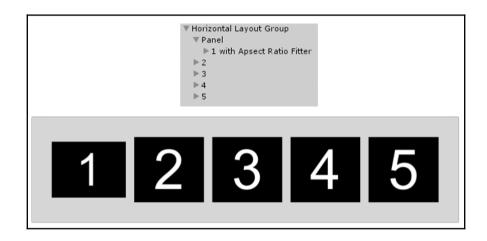








Parent has a type of layout group component. A child of a layout group should not have a Aspect Ratio Fitter component, since it should be driven by the layout group.

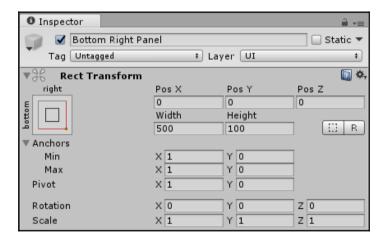




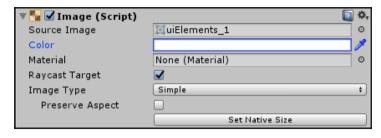




▼ HUD Canvas ▶ Top Left Panel ▶ Bottom Right Panel

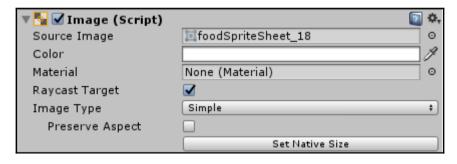




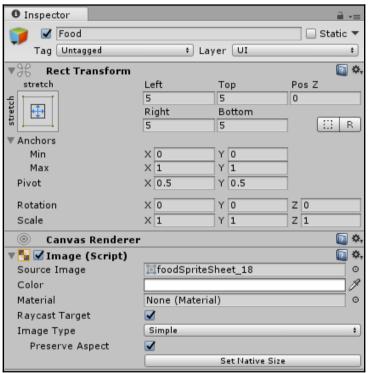


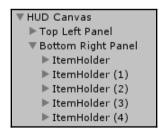




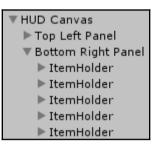


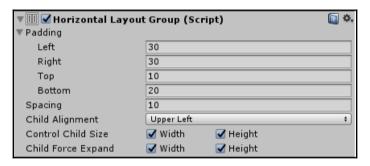










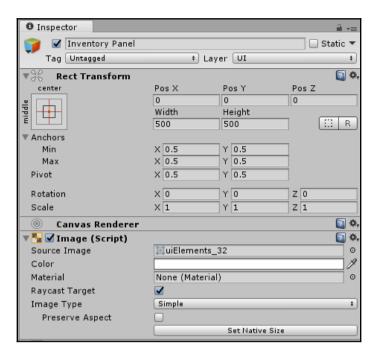








▼ Popup Canvas ▼ Pause Panel Pause Banner ▼ Inventory Panel Inventory Banner





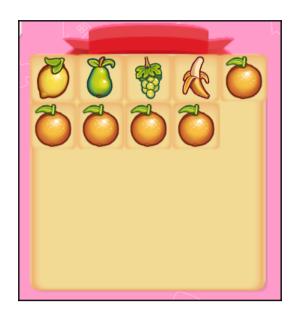
- ▼ Popup Canvas
  - Pause Panel
  - ▼ Inventory Panel Inventory Banner
    - Inventory Holder
- ▼ Popup Canvas
  - Pause Panel
  - ▼ Inventory Panel

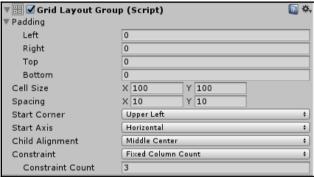
Inventory Banner

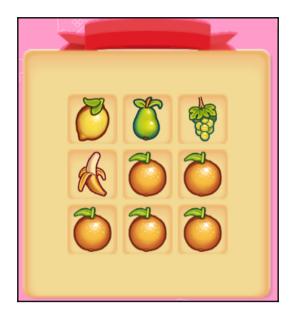
- ▼ Inventory Holder
  - ▶ ItemHolder (1)
  - ▶ ItemHolder (2)
  - ▶ ItemHolder (3)
  - ▶ ItemHolder (4)
  - ▶ ItemHolder (5)
- ▼ Popup Canvas
  - Pause Panel
  - ▼ Inventory Panel

Inventory Banner

- ▼ Inventory Holder
  - ▶ ItemHolder
  - ▶ ItemHolder













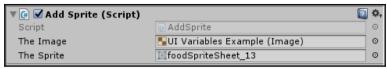


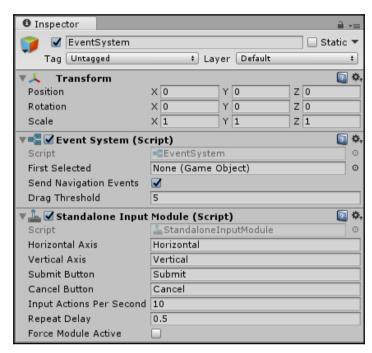


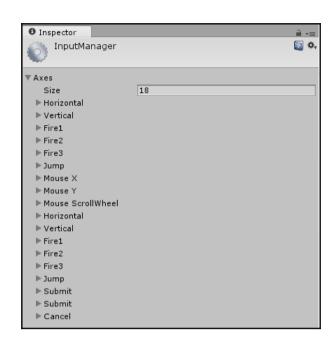


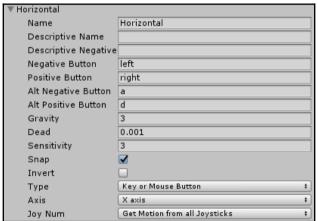


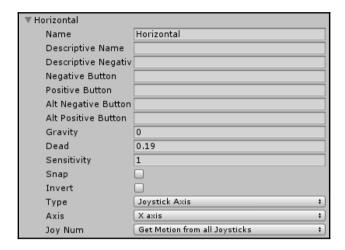
## Chapter 4: The Event System and Programming for UI



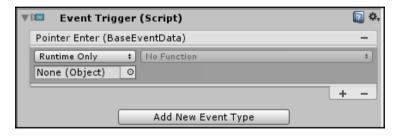


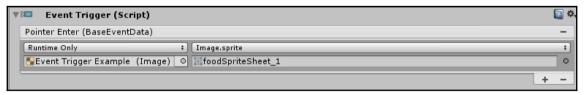


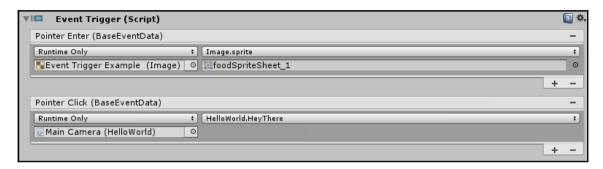






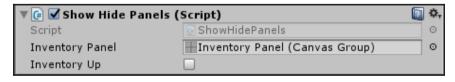


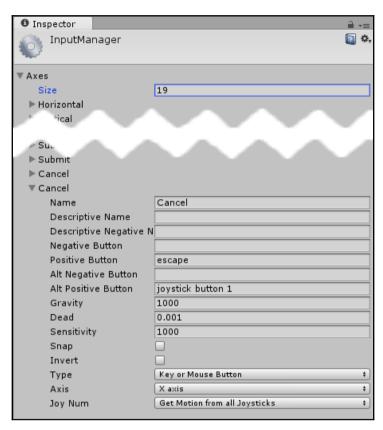




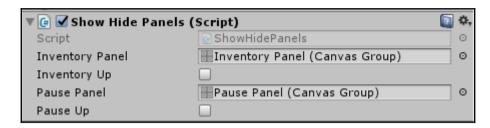




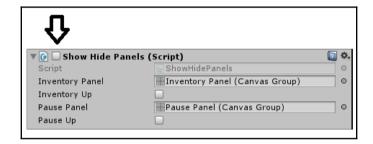


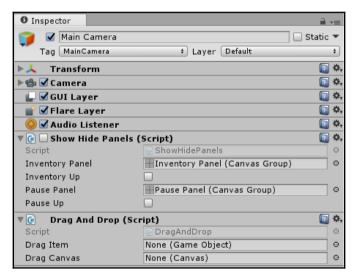


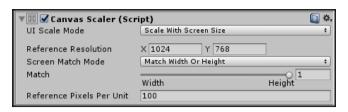
▼ Pause	
Name	Pause
Descriptive Name	
Descriptive Negative N	
Negative Button	
Positive Button	p
Alt Negative Button	
Alt Positive Button	
Gravity	1000
Dead	0.001
Sensitivity	1000
Snap	
Invert	
Туре	Key or Mouse Button ‡
Axis	X axis #
Joy Num	Get Motion from all Joysticks ‡





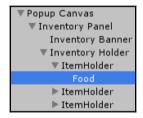


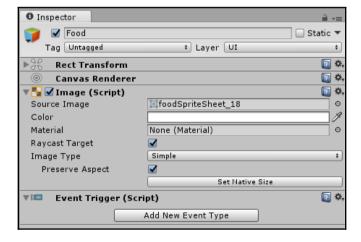


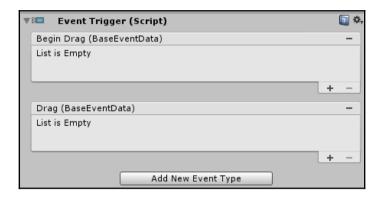


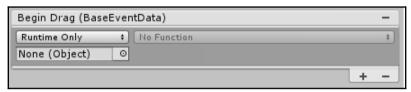


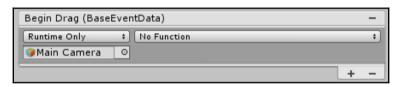


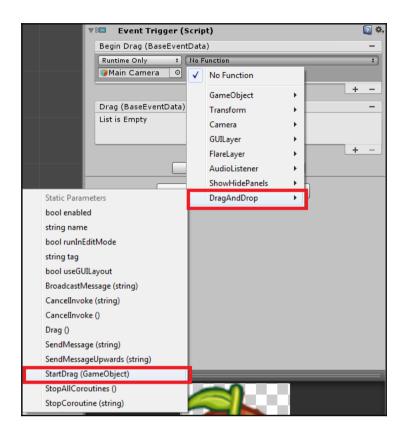


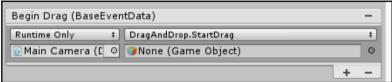


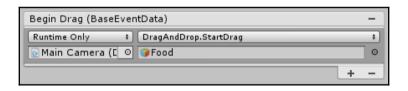


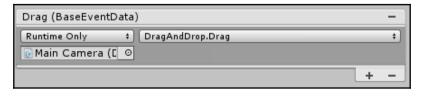






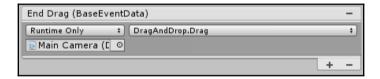


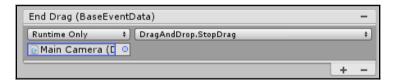


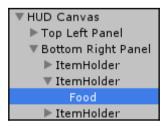


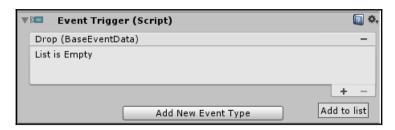


## ▼ Drag Canvas Food(Clone)

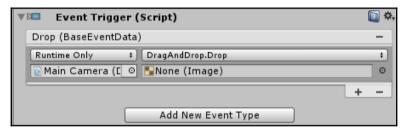


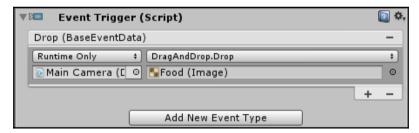


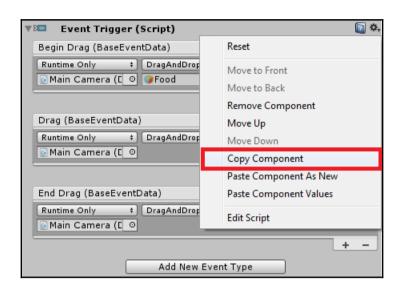








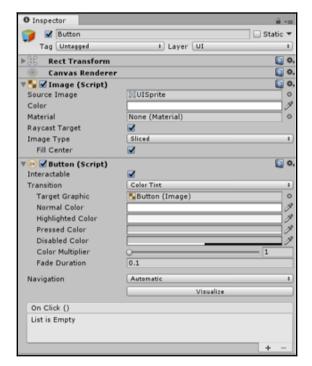




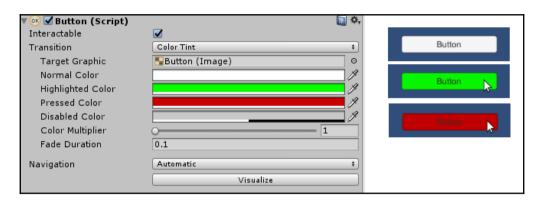
## **Chapter 5: Buttons**

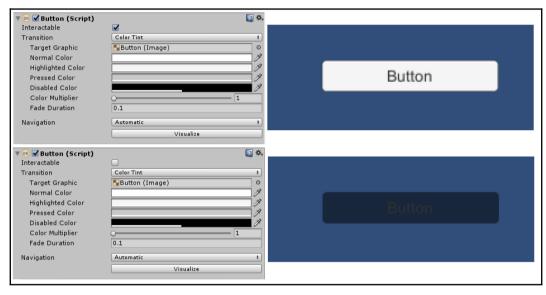


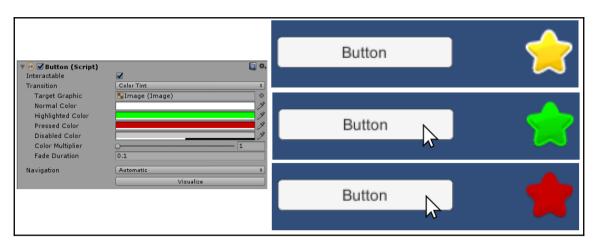




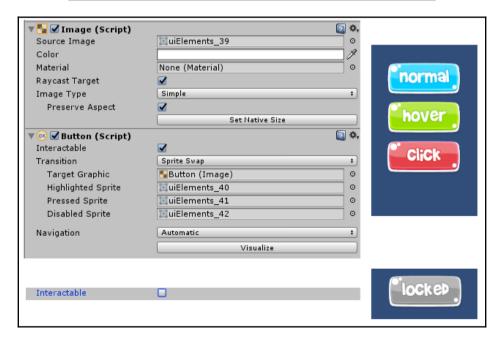


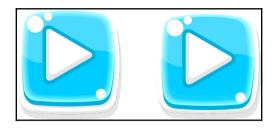


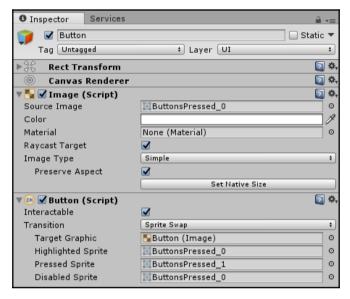


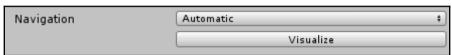


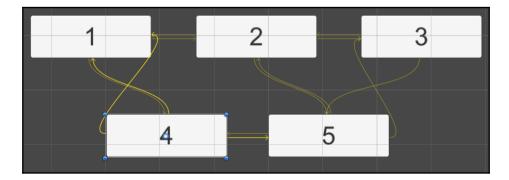


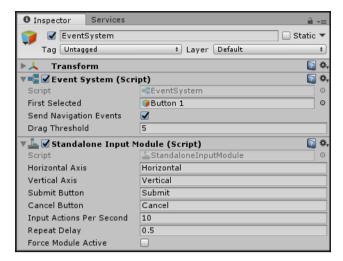




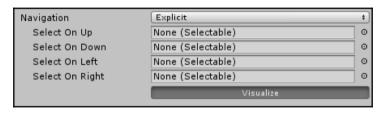




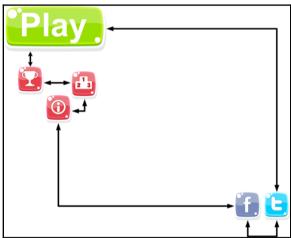


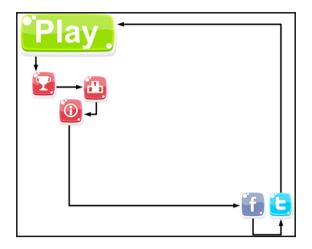


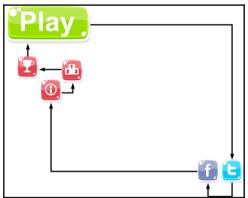


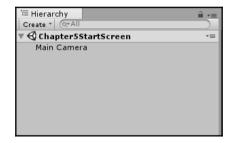


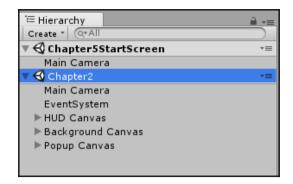


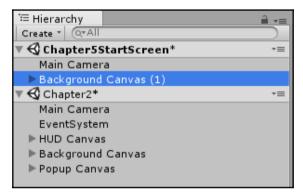


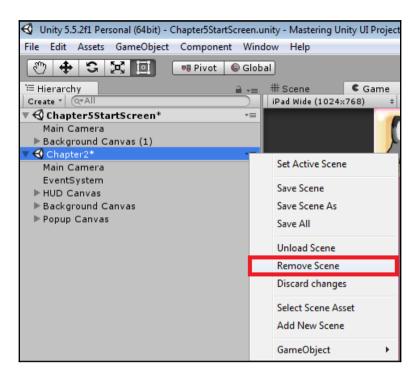








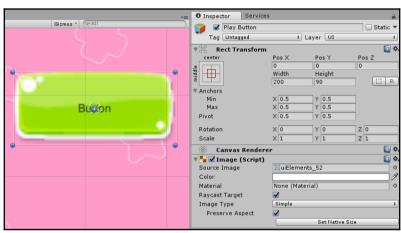






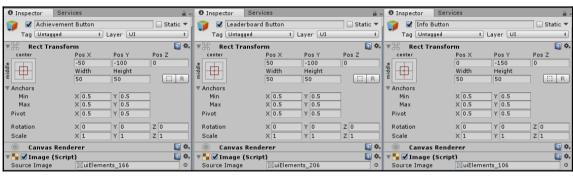


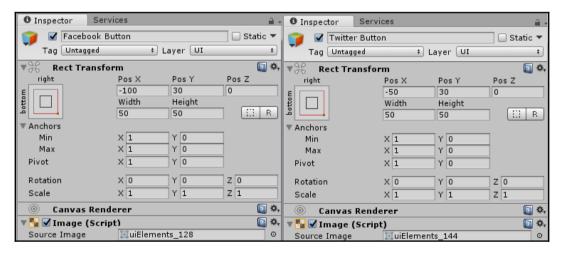




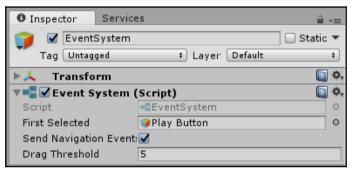




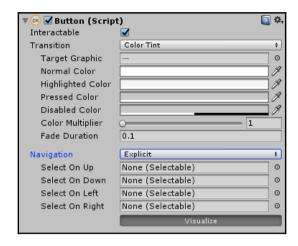


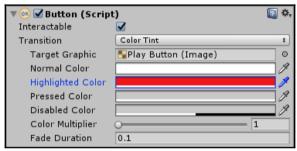




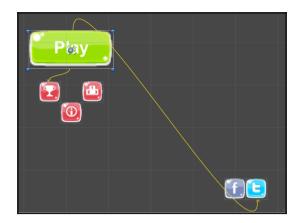


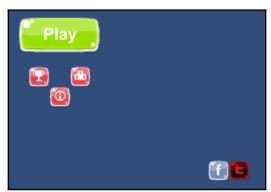






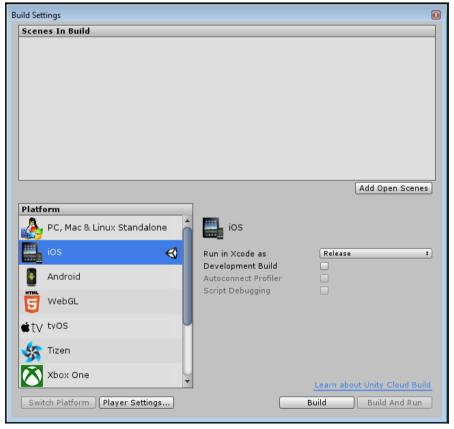


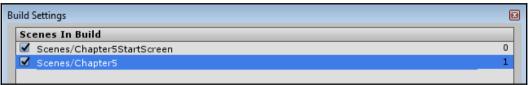




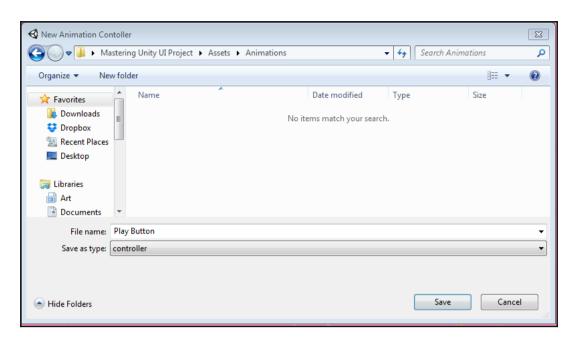


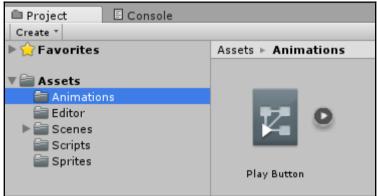




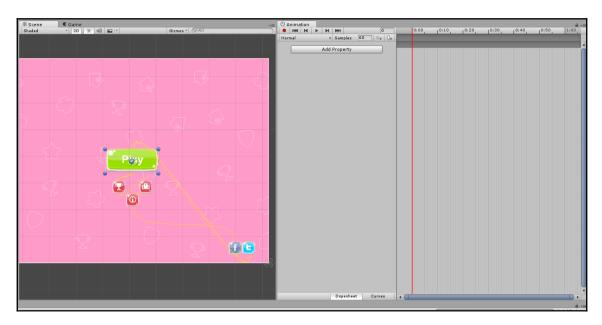


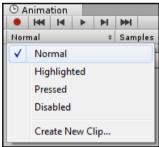


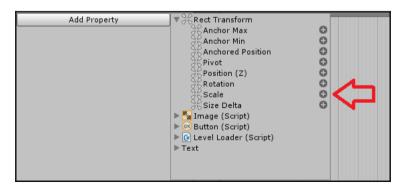




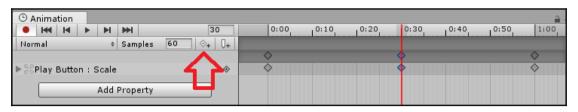


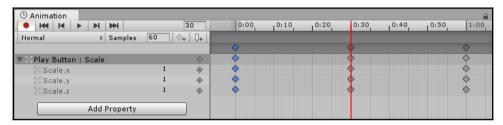


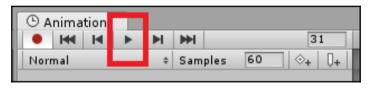








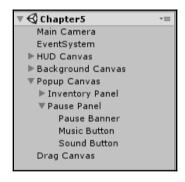


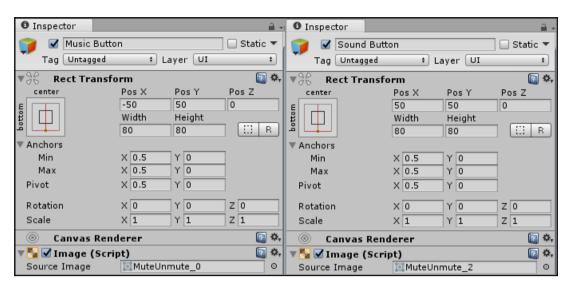












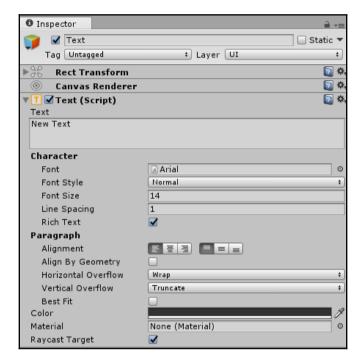


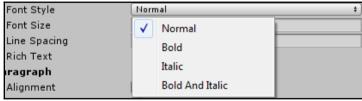




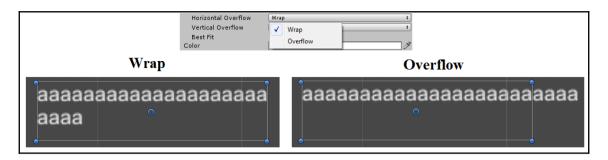
## Chapter 6: Text, Images, and TextMesh Pro-Text

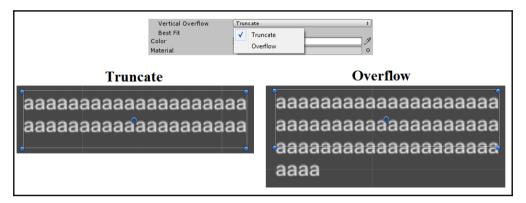


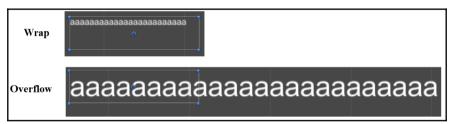




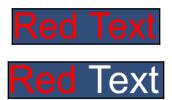




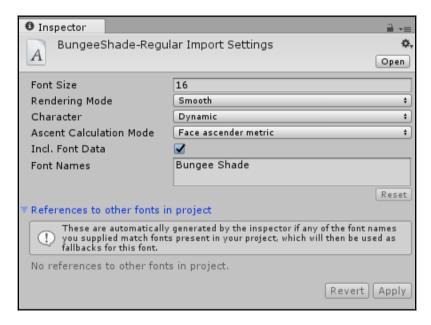


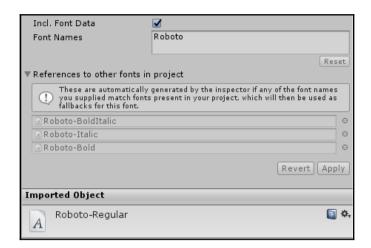






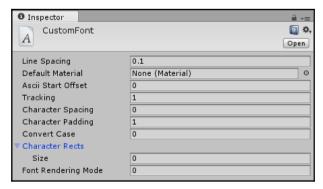


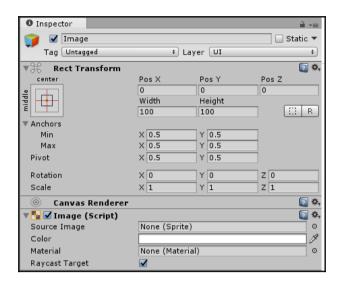


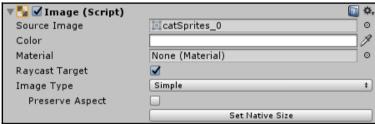




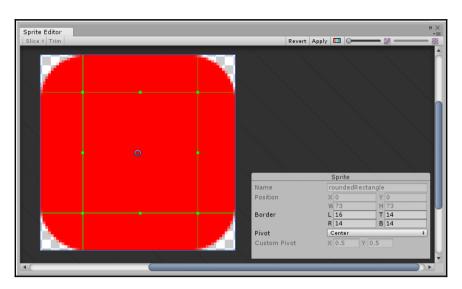


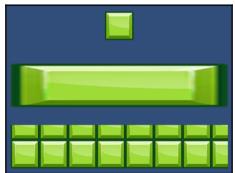


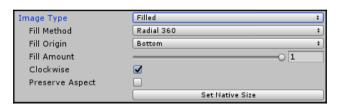




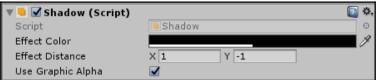


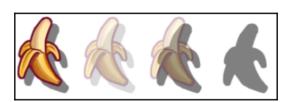


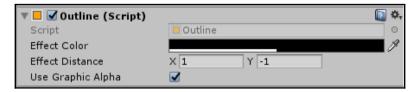


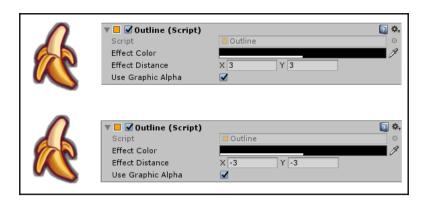






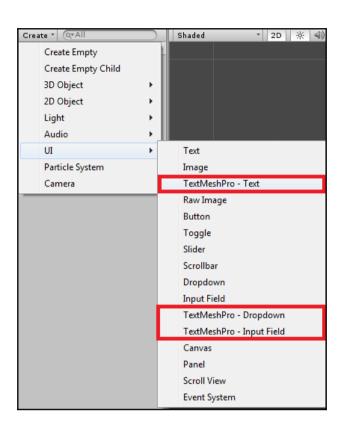


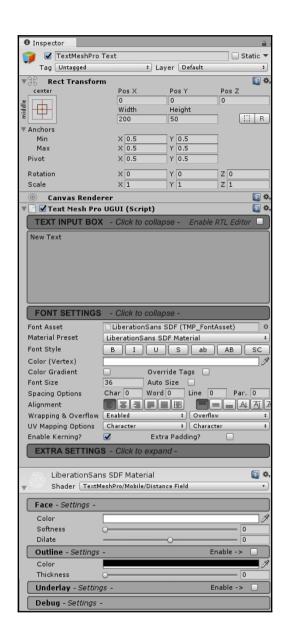




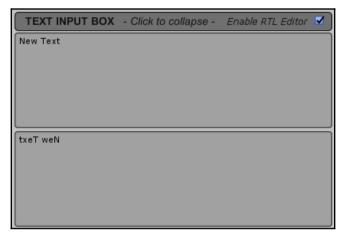


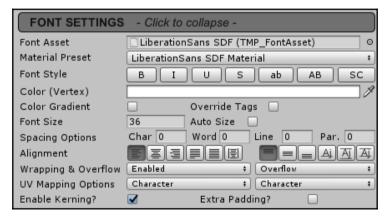


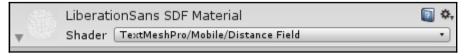






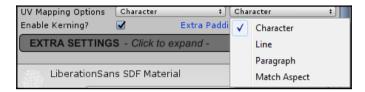


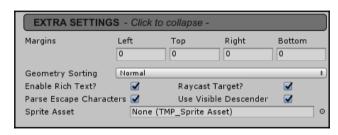




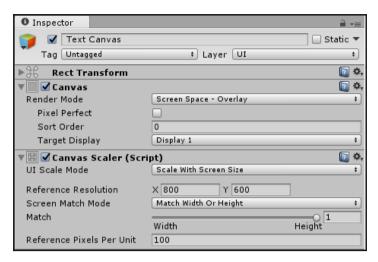
Color Gradient	✓ Override Tags
Gradient (Preset)	None (TMP_Color Gradient)
Top Left	
Top Right	
Bottom Left	9
Bottom Right	

Font Size	68.8	Auto Size	☑	
Auto Size Options	Min 18	Max 72	WD%0	Line 0

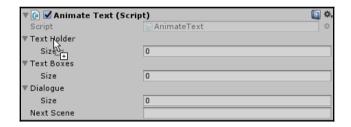








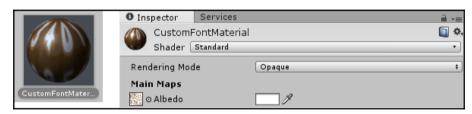


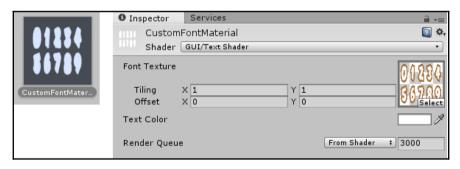


▼ Text Holder		
Size	2	
Element 0	⊞TextHolder1 (Canvas Group)	0
Element 1	⊞TextHolder2 (Canvas Group)	0
▼ Text Boxes		
Size	2	
Element 0	Text (Text)	0
Element 1	Text (Text)	0







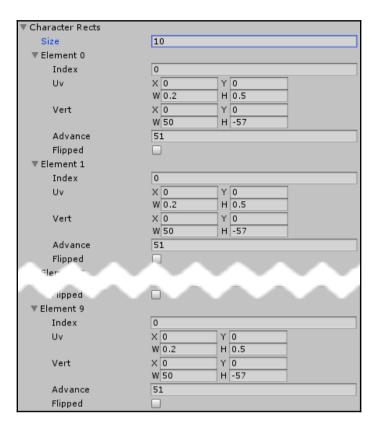


▼ Character Rects			
Size	1		
▼ Element 0			
Index	0		
Uv	X 0	Υ 0	
	W O	H 0	
Vert	X 0	Υ 0	
	W O	H 0	
Advance	0		
Flipped			

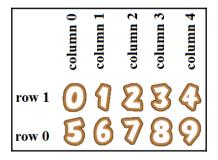
$$UV W = \frac{1}{\text{columnCount}}$$

$$UV H = \frac{1}{\text{rowCount}}$$

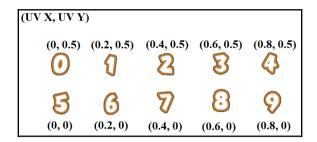
▼ Element 0			
Index	0		
Uv	X 0	Υ 0	
	W 0.2	H 0.5	
Vert	X 0	Y 0	
	W 50	H -57	
Advance	51		
Flipped			







 $UV X = columnNumber \times UV W$  $UV Y = rowNumber \times UV H$ 

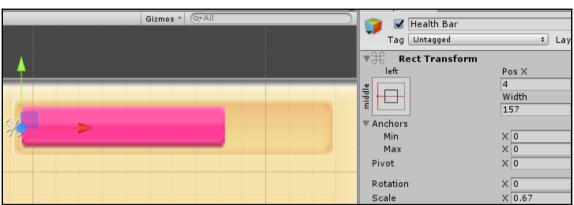


## 

000	▼ Element 0	
$(a) \leq (b) \leq c$	Index	48
W Ka O	Uv	X 0 Y 0.5
0 7 0		W 0.2 H 0.5
	Vert	X 0 Y 0
		W 50 H -57
	Advance	51
	Flipped	
	▼ Element 1	
	Index	49
	Uv	X 0.2 Y 0.5
		W 0.2 H 0.5
	Vert	X 0 Y 0
		W 50 H -57
	Advance	30
	Flipped	
	▼ Element 2	
	Index	50
	Uv	X 0.4 Y 0.5
		W 0.2 H 0.5
	Vert	X 0 Y 0
		W 50 H -57
	Advance	51
	Flipped	



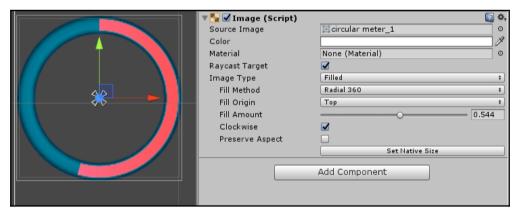








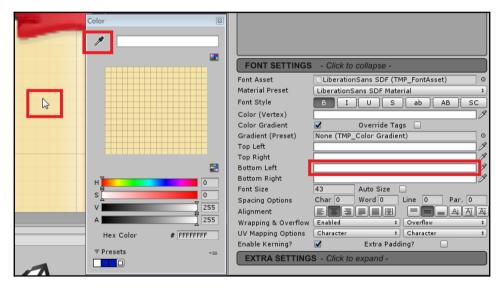


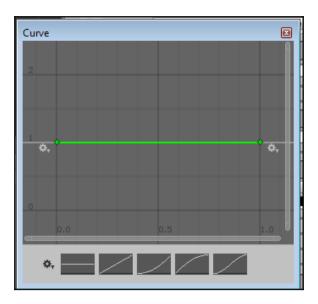


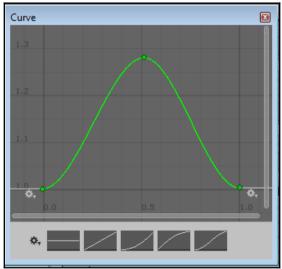


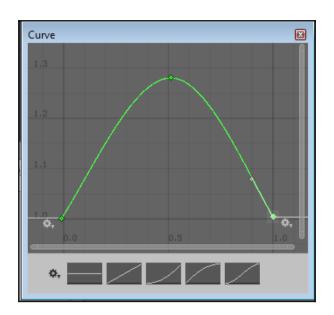










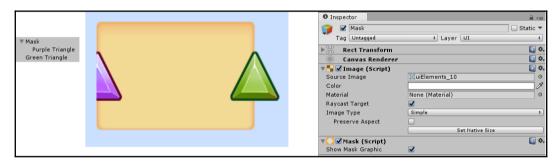


## **Chapter 7: Masks and Other Inputs**

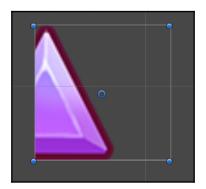


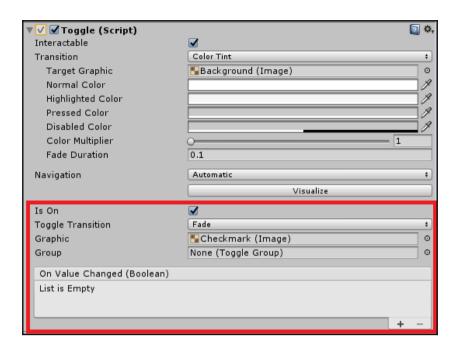


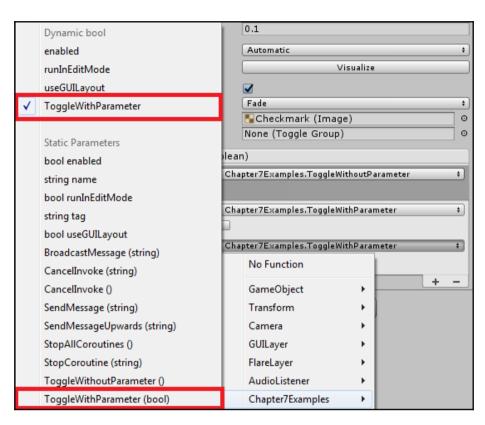


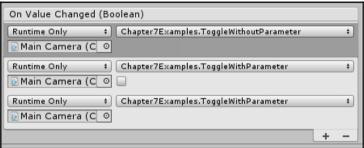




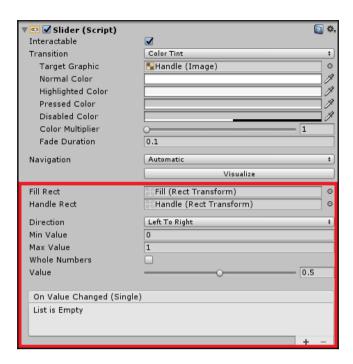


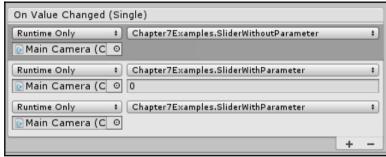


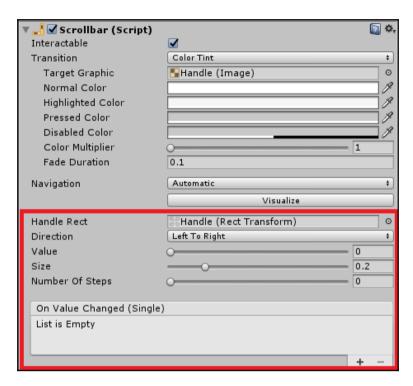


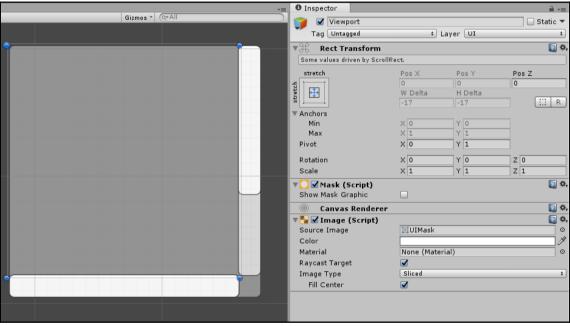


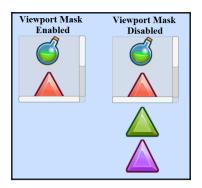


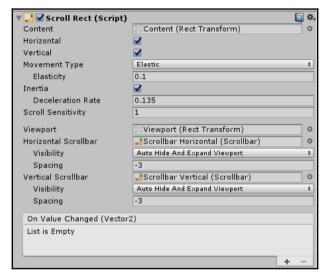


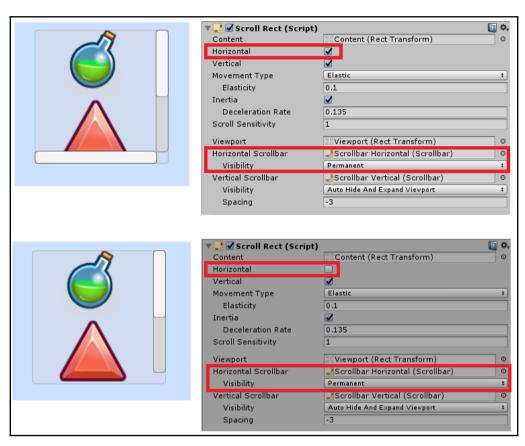


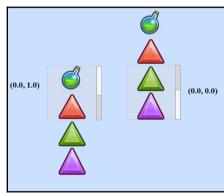


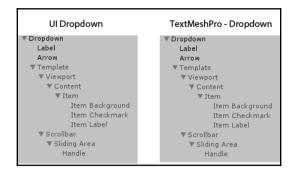


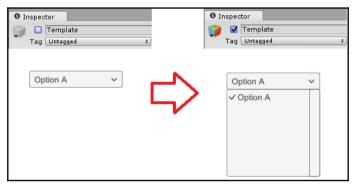


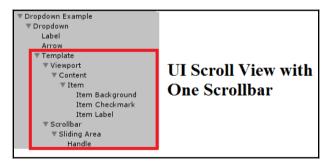


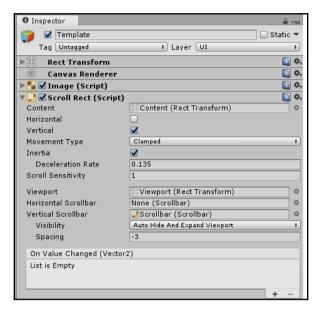


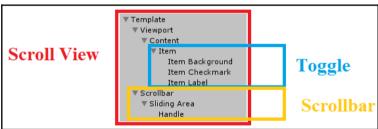


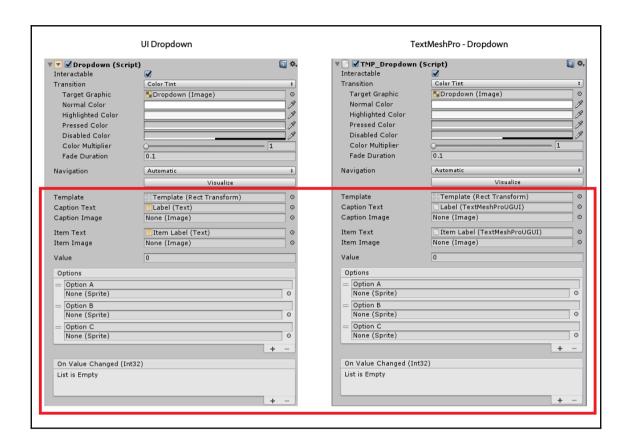


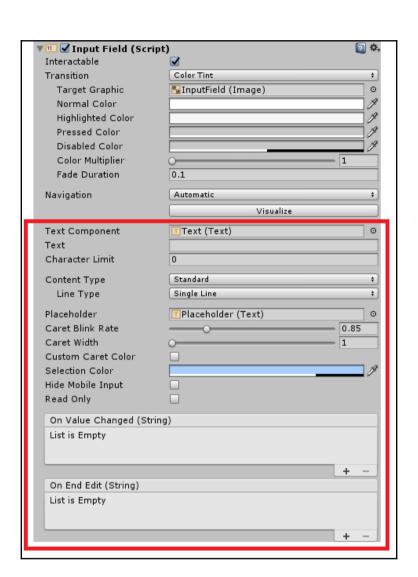


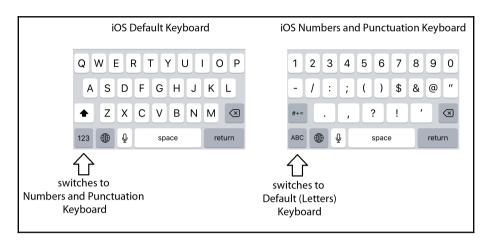








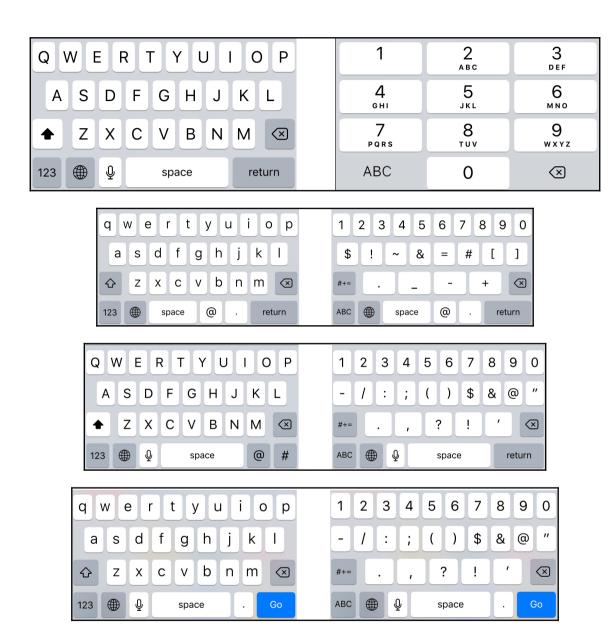






1	2 abc	3 DEF
<b>4</b>	5	6
вні	JKL	mno
7	8	9
pqrs	TUV	wxyz
	0	$\boxtimes$

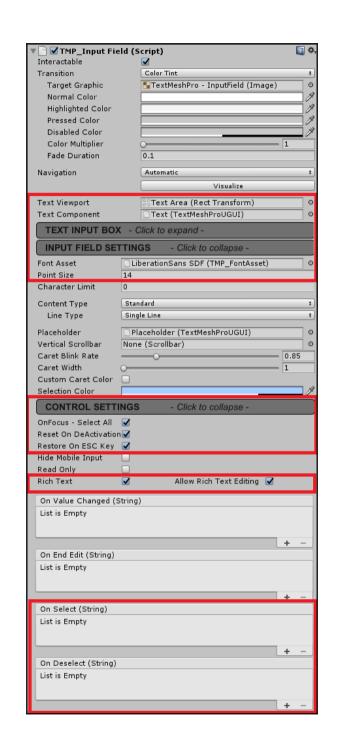
1	2 ABC	3 DEF	1	2 ABC	3 DEF
<b>4</b> вні	5 JKL	6 mno	pause	5 JKL	wait
7 PQRS	8 TUV	9 wxyz	*	8 TUV	#
+ * #	0	×	123	+	⊗



On Value Changed (String)	
Runtime Only   Chapter7Examples.InputFieldValueChangeWithoutParameter  Main Camera (Chal	<b>‡</b>
Runtime Only	<b>‡</b>
Runtime Only   Chapter7Examples,InputFieldValueChangeWithParameter  Main Camera (Cha O	<b>‡</b>
+	-

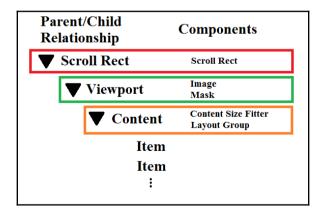
On End Edit (String)		
Runtime Only ‡	Chapter7Examples.InputFieldOnEndEditWithoutParamter	•
		_
Runtime Only ‡	Chapter7Examples.InputFieldOnEndEditWithParamter	
@ Main Camera (Cha <sub>l</sub> ⊙	end static	
Runtime Only ‡	Chapter7Examples.InputFieldValueChangeWithParameter	•
Main Camera (Chal ○		
	+	_

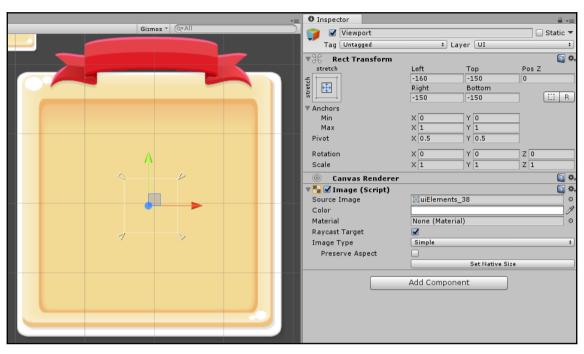








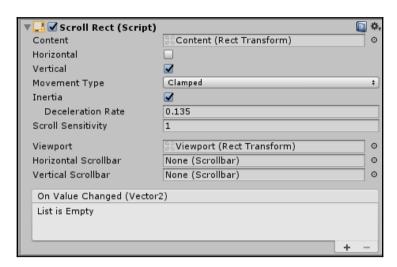




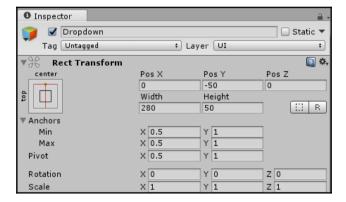




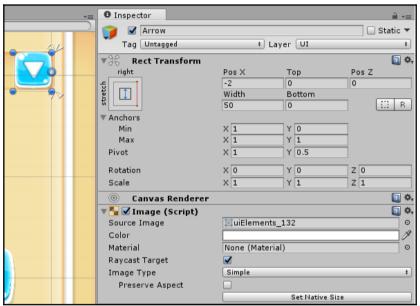


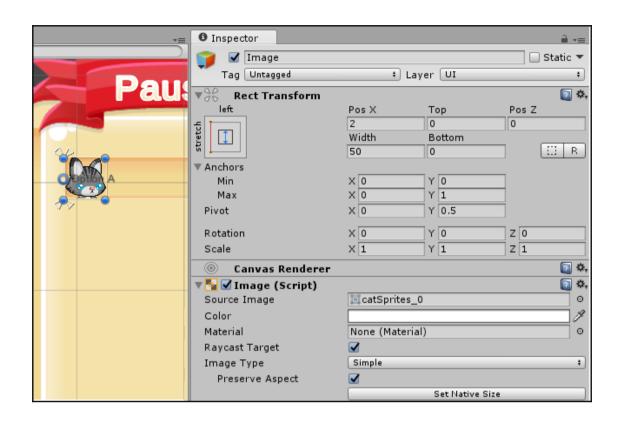


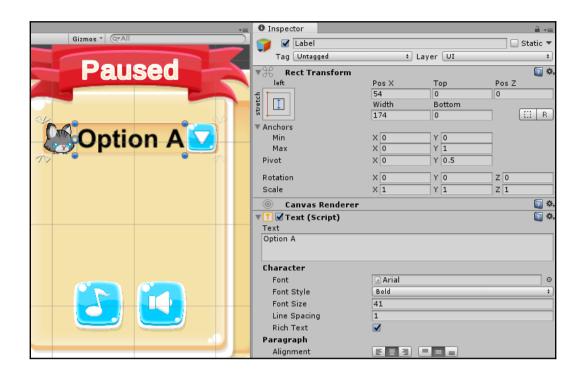


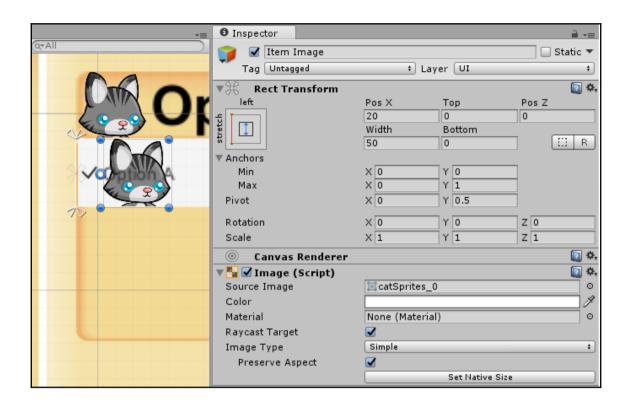


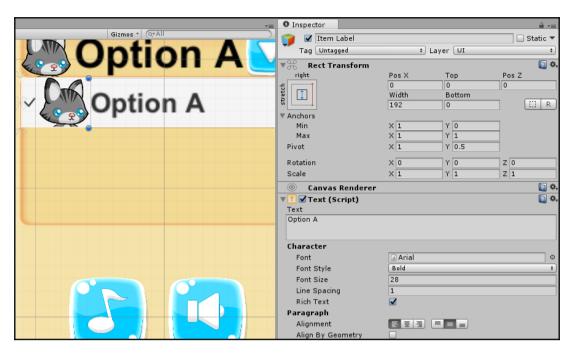




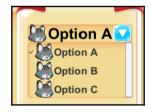


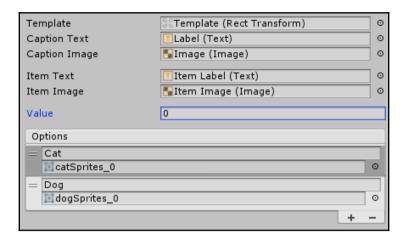




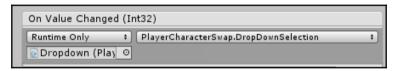








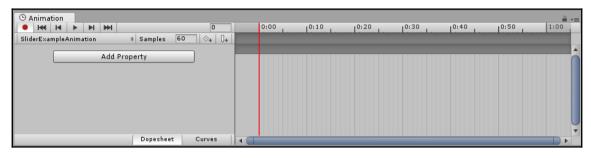


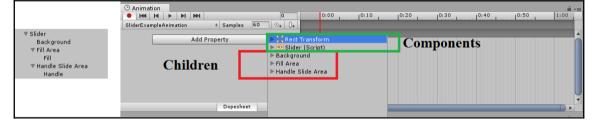




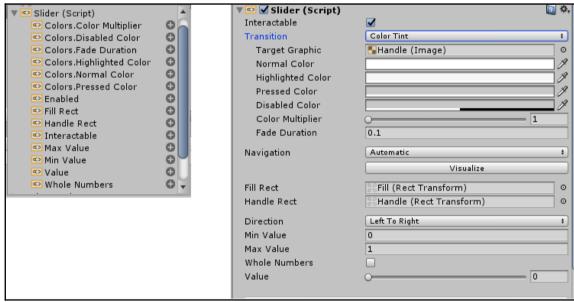
## **Chapter 8: Animations and Particles in the UI**

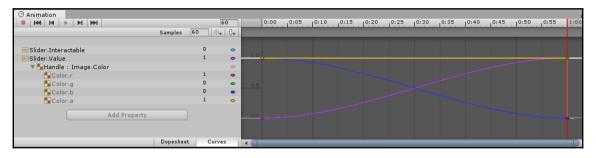


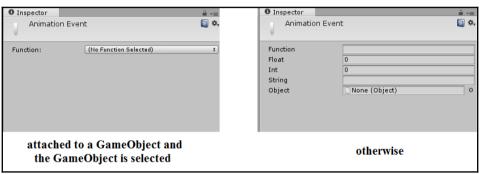


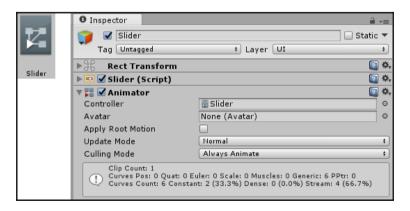


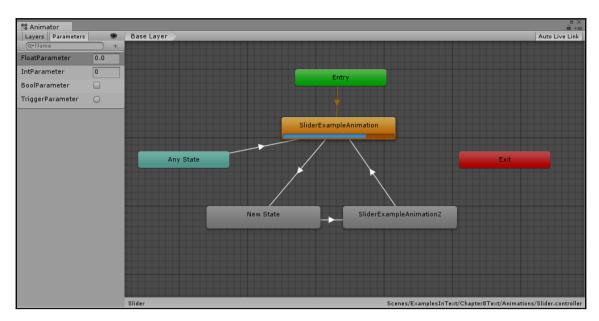


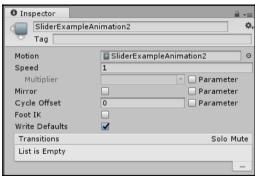


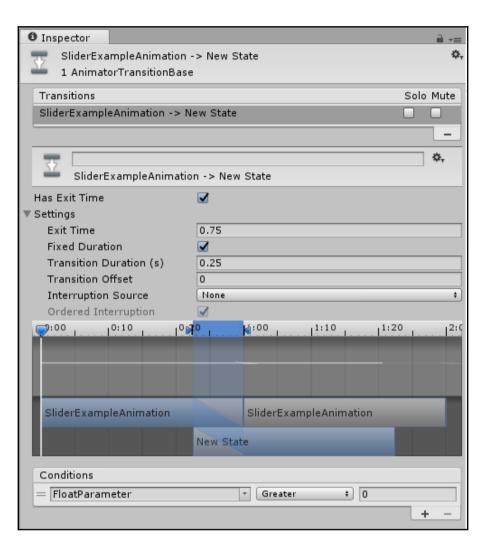


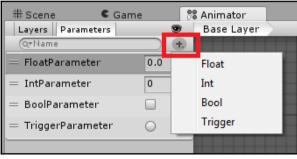


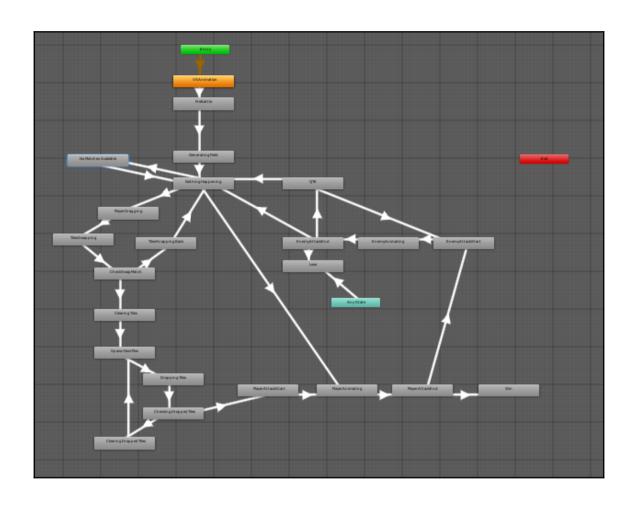


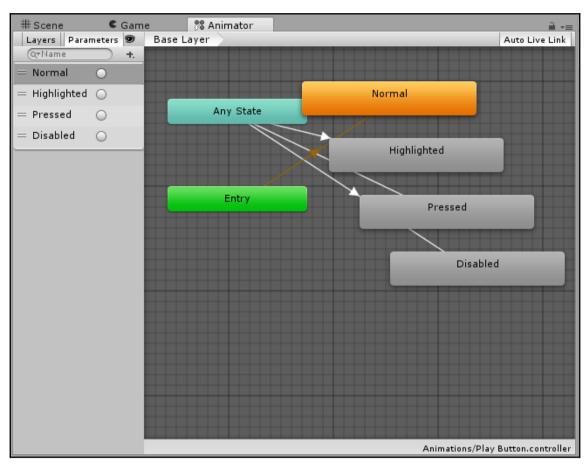


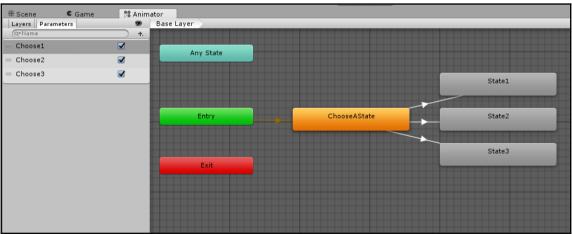


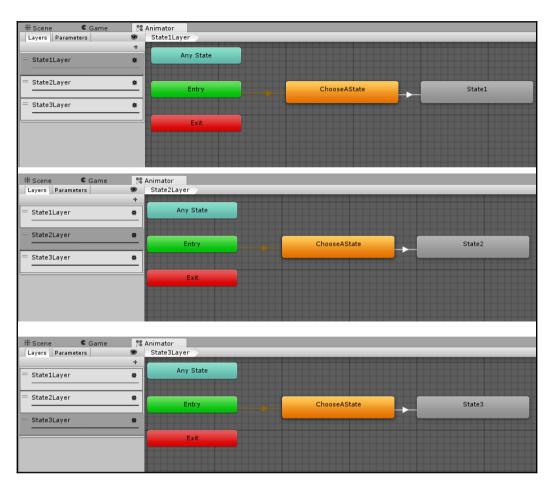




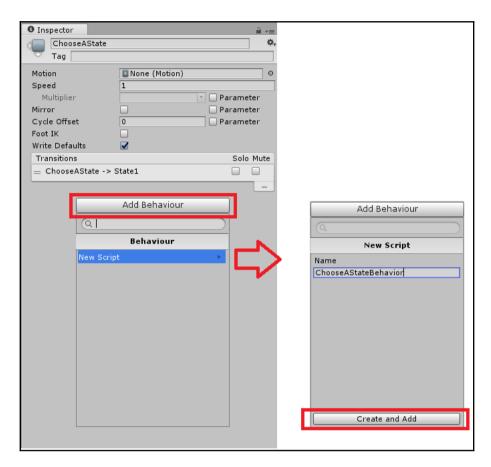




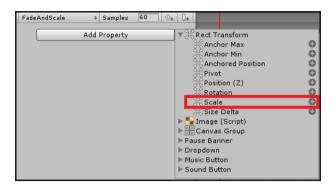


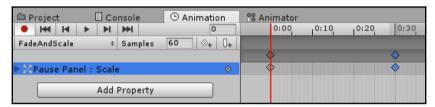


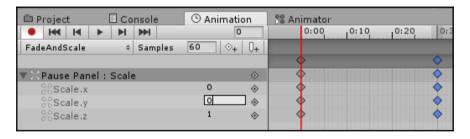


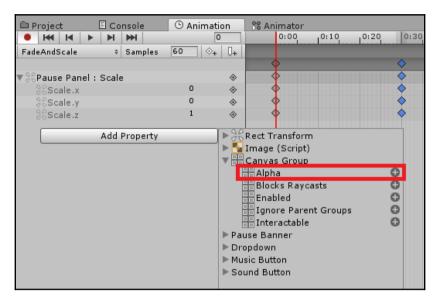




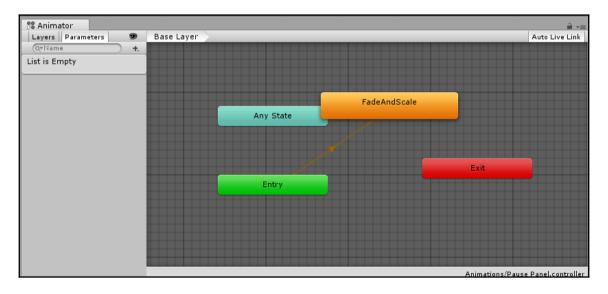


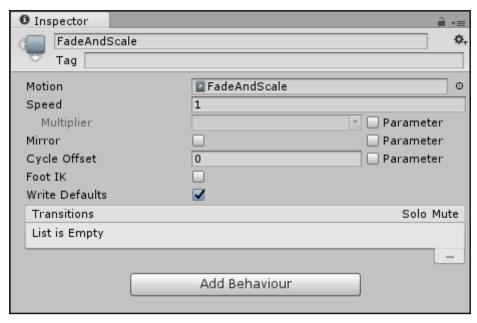


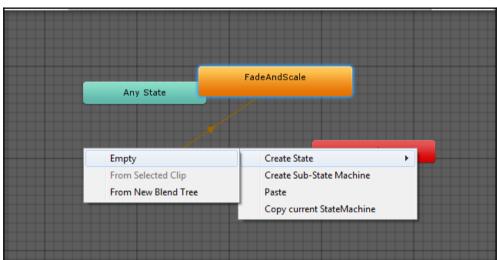


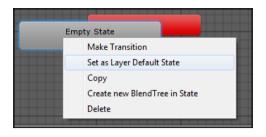


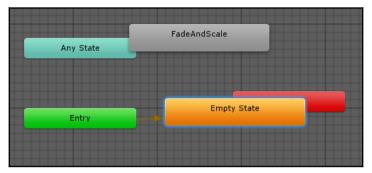


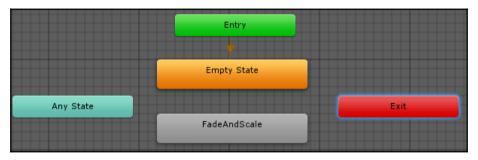


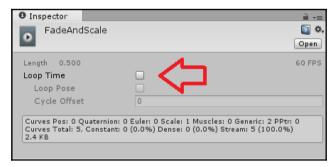


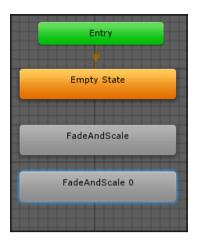


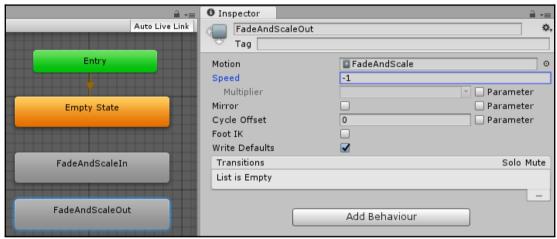


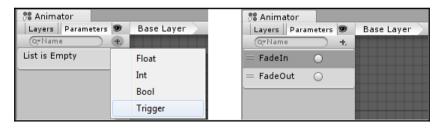


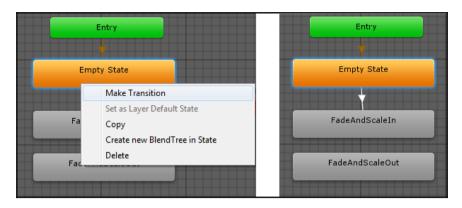


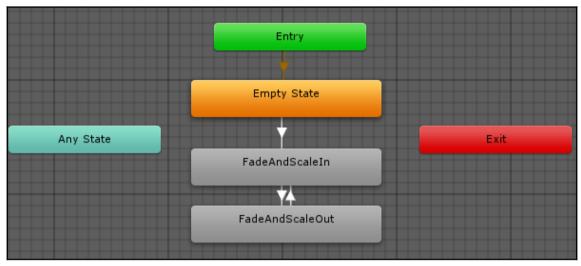


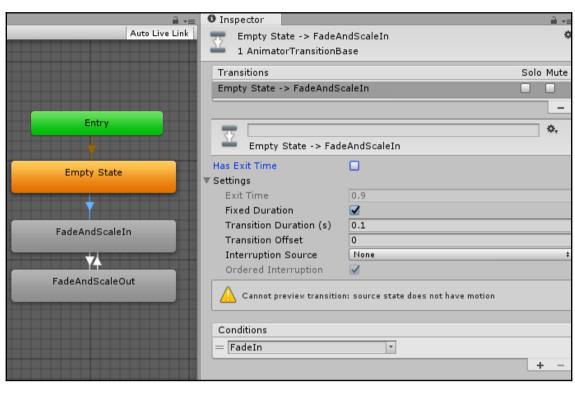


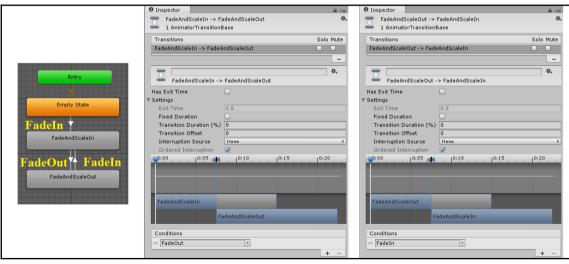




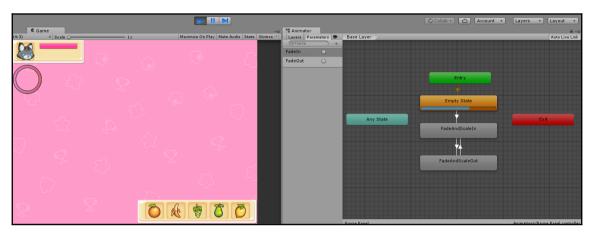


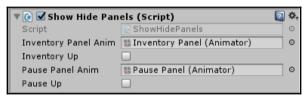


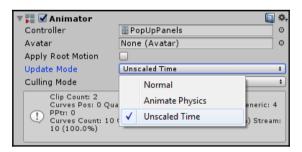


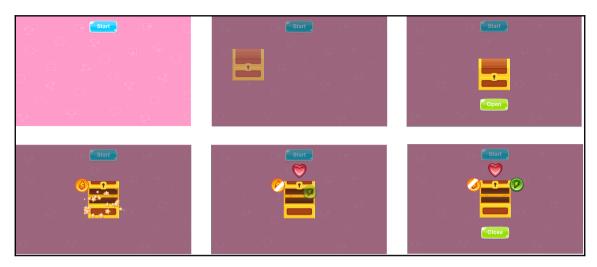




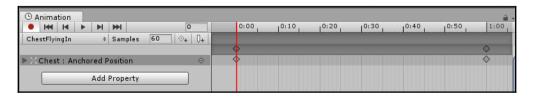


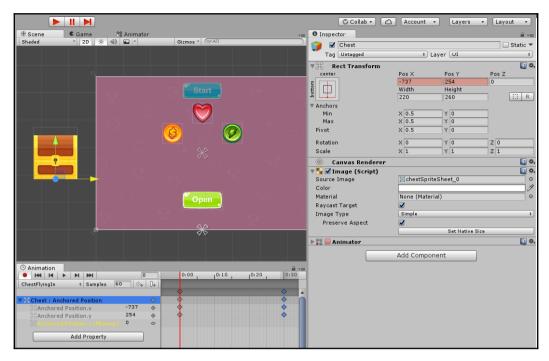


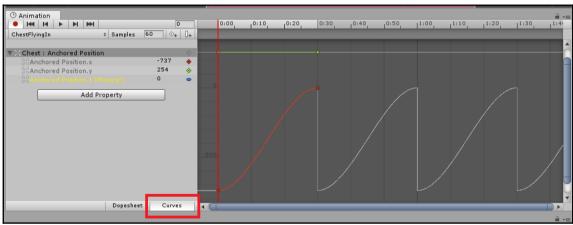


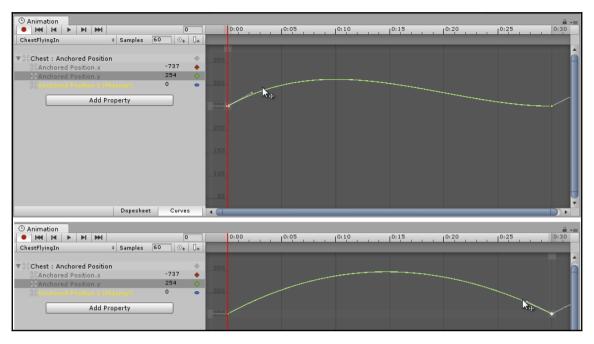


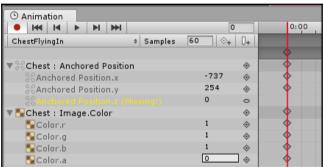


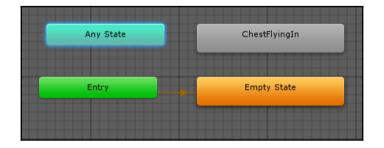


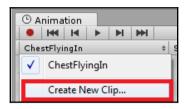


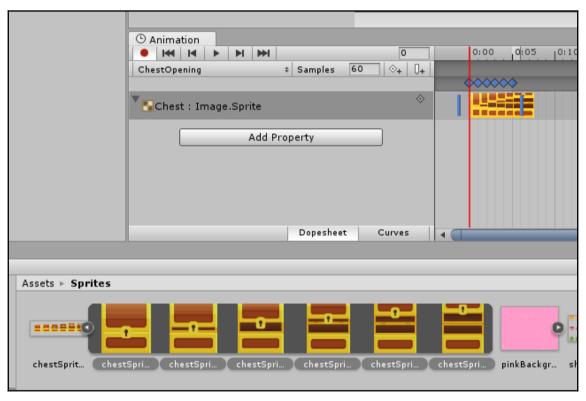


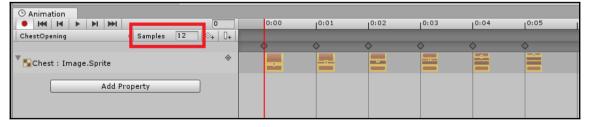


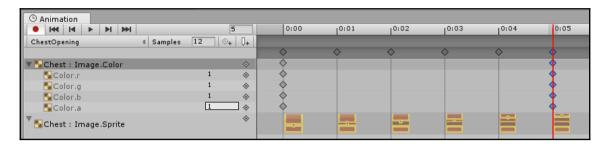


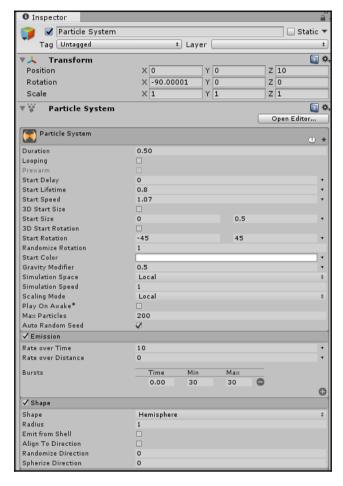


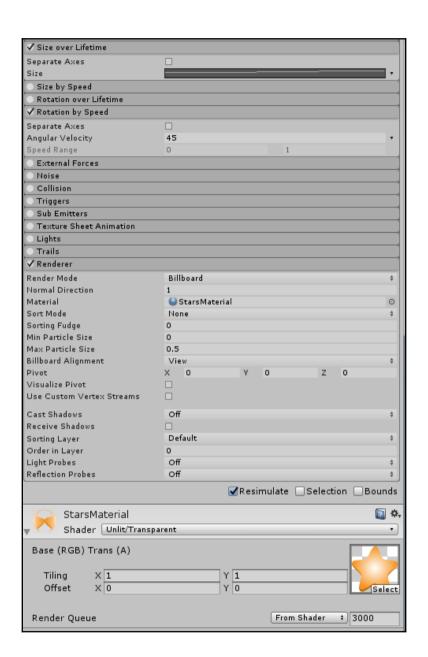


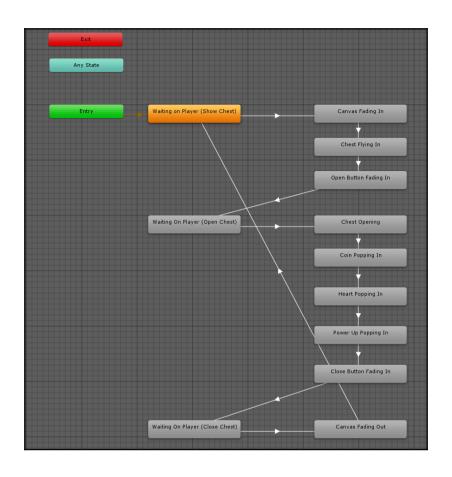


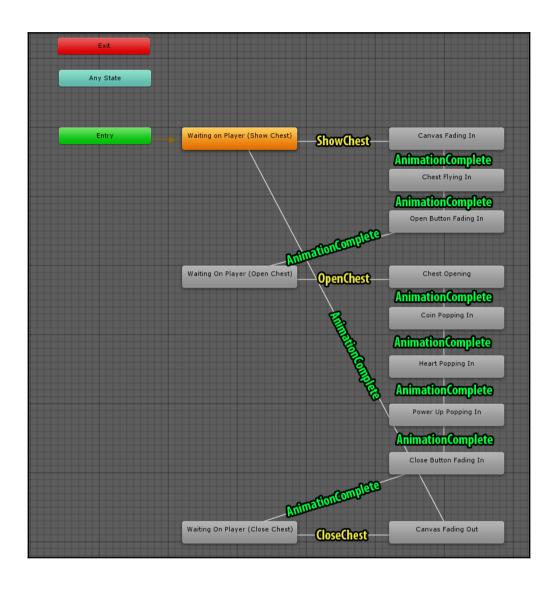


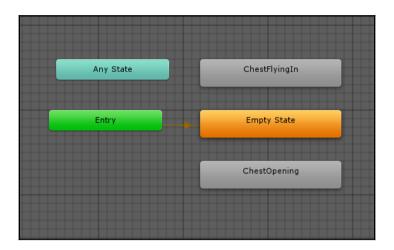


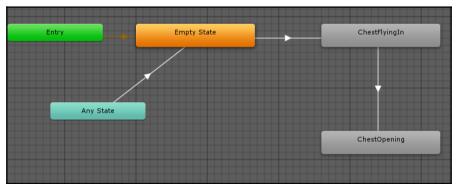


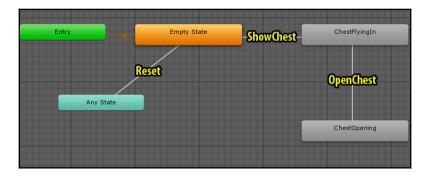


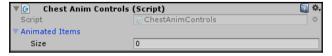


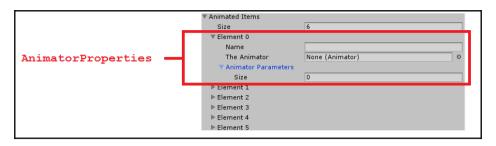


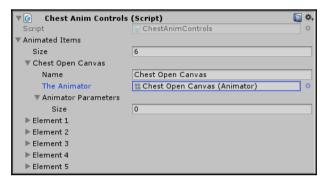


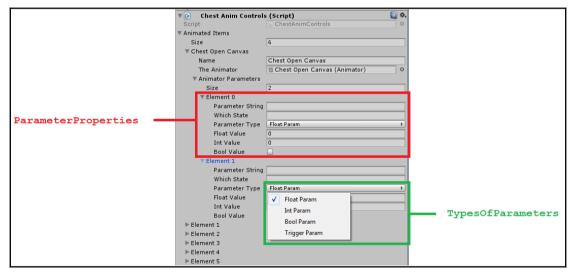












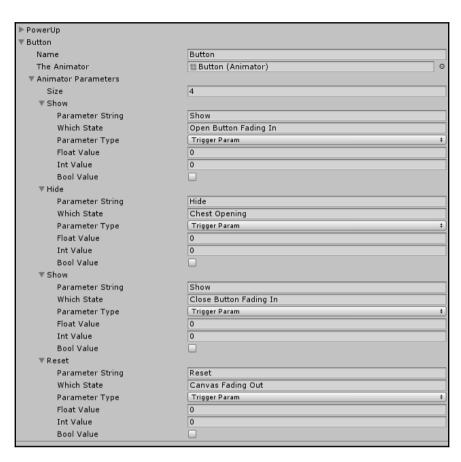
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Name	Chest Open Canvas
The Animator	the Chest Open Canvas (Animator)
▼ Animator Parameters	
Size	2
▼Show	
Parameter String	Show
Which State	Canvas Fading In
Parameter Type	Trigger Param ‡
Float Value	0
Int Value	0
Bool Value	
<b>▼</b> Hide	
Parameter String	Hide
Which State	Canvas Fading Out
Parameter Type	Trigger Param ‡
Float Value	0
Int Value	0
Bool Value	

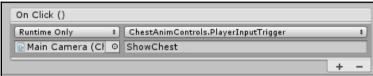
▶ Chest Open Canvas	
▼ Chest	
Name	Chest
The Animator	thest (Animator)
▼ Animator Parameters	
Size	3
▼ ShowChest	
Parameter String	ShowChest
Which State	Chest Flying In
Parameter Type	Trigger Param ‡
Float Value	0
Int Value	0
Bool Value	
▼ OpenChest	
Parameter String	OpenChest
Which State	Chest Opening
Parameter Type	Trigger Param #
Float Value	0
Int Value	0
Bool Value	
<b>▼</b> Reset	
Parameter String	Reset
Which State	Canvas Fading Out
Parameter Type	Trigger Param ‡
Float Value	0
Int Value	0
Bool Value	

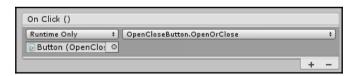
▶ Chest	
▼ Coin	
Name	Coin
The Animator	Scoin (Animator)
▼ Animator Parameters	
Size	2
<b>▼</b> Pop	
Parameter String	Pop
Which State	Coin Popping In
Parameter Type	Trigger Param ‡
Float Value	0
Int Value	0
Bool Value	
▼ Reset	
Parameter String	Reset
Which State	Canvas Fading Out
Parameter Type	Trigger Param ‡
Float Value	0
Int Value	0
Bool Value	

▶ Coin	
▼ Heart	
Name	Heart
The Animator	# Heart (Animator)
▼ Animator Parameters	
Size	2
<b>▼</b> Pop	
Parameter String	Pop
Which State	Heart Popping In
Parameter Type	Trigger Param ‡
Float Value	0
Int Value	0
Bool Value	
▼ Reset	
Parameter String	Reset
Which State	Canvas Fading Out
Parameter Type	Trigger Param ‡
Float Value	0
Int Value	0
Bool Value	

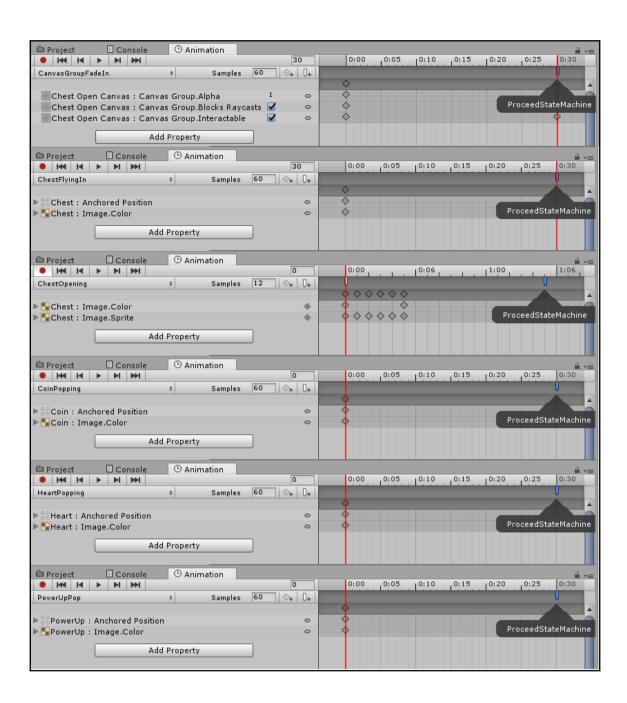
▶ Heart		
▼ PowerUp		
Name	PowerUp	
The Animator	powerUp (Animator)	0
▼ Animator Parameters		
Size	2	
<b>▼</b> Pop		
Parameter String	Рор	
Which State	Power Up Popping In	
Parameter Type	Trigger Param	<b>‡</b>
Float Value	0	
Int Value	0	
Bool Value		
▼ Reset		
Parameter String	Reset	
Which State	Canvas Fading Out	
Parameter Type	Trigger Param	<b>‡</b>
Float Value	0	
Int Value	0	
Bool Value		







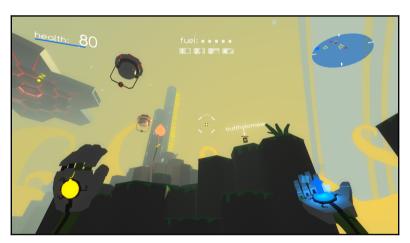






## **Chapter 9: World Space UI**

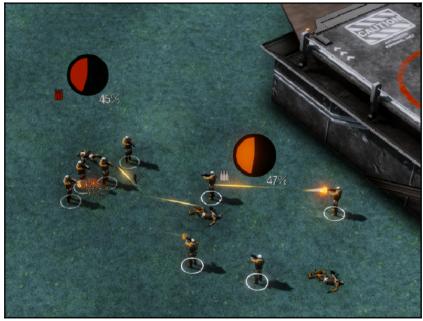


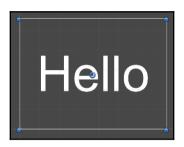


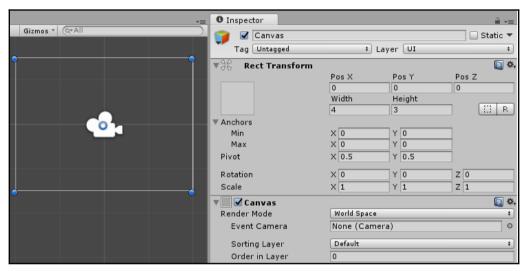




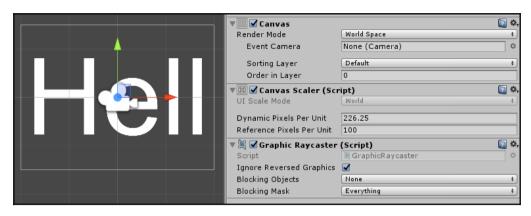


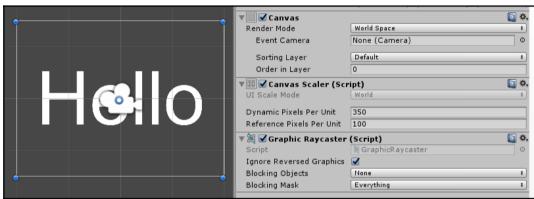


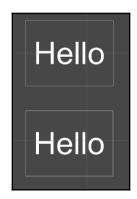


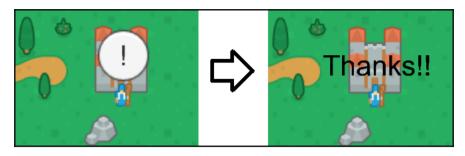


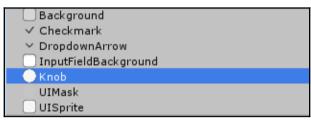


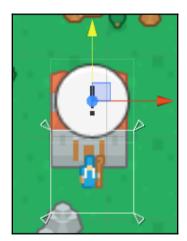


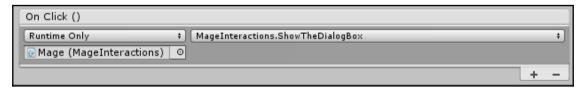




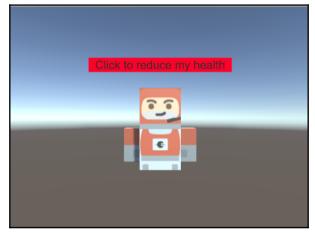


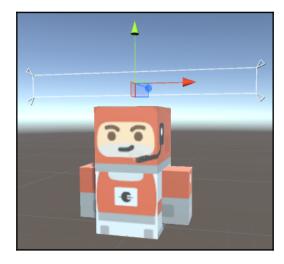


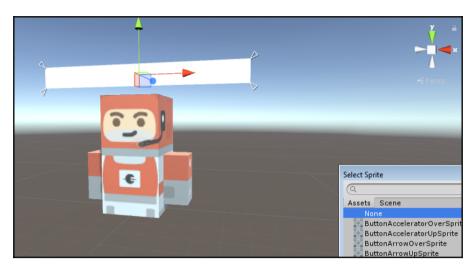






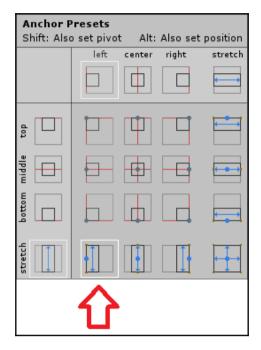




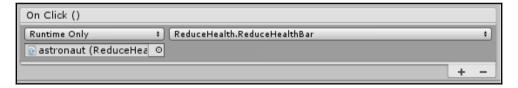














## **Chapter 10: Mobile-Specific UI**

