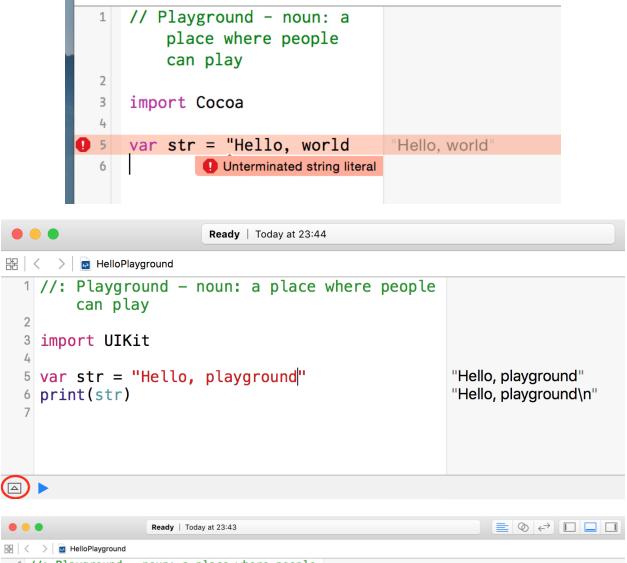
Chapter 1 :Welcome to the World of Swift

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	HelloPlayground.playground										
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2 3 imp 4	<pre>1 // Playground - noun: a place where people can play 2 3 import Cocoa 4</pre>					an play	"He	ello, playgro	ound≞		
6											
		>	🛃 He	lloPlayg	jround.play	ground					
<pre>1 //: Playground - noun: a place where people can play</pre>											
	2 3 j	moort	Coco	a							
<pre>3 import Cocoa 4</pre>											
		var st	r = "I	Hello,	world"			"Hello,	world"		
	6										





Hello, playground

```
• • •
                                                                        Ready | Today at 23:52
🗄 < > 🖬 HelloPlayground
  1 let name: String = "Paul"
                                                 "Paul'
 2 let age: Int = 27
                                                 27
O 3 <u>name</u> = "John"
                                                 "John"
• 4 age = 29
                                                 29
  5
Playground execution failed: /var/folders/hn/bypbckddlnnd73xzkjhxlsfc0000gn/T/./lldb/20088/
playground7.swift:3:6: error: cannot assign to value: 'name' is a 'let' constant
name = "John"
~~~~ ^
/var/folders/hn/bypbckdd1nnd73xzkjhxlsfc0000gn/T/./lldb/20088/playground7.swift:1:1: note:
change 'let' to 'var' to make it mutable
let name: String = "Paul"
^~~
var
/var/folders/hn/bypbckdd1nnd73xzkjhxlsfc0000gn/T/./lldb/20088/playground7.swift:4:5: error:
cannot assign to value: 'age' is a 'let' constant
age = 29
~~~ ^
/var/folders/hn/bypbckdd1nnd73xzkjhxlsfc0000gn/T/./lldb/20088/playground7.swift:2:1: note:
change 'let' to 'var' to make it mutable
let age: Int = 27
^~~
var
```

```
      Ready | Today at 17:25

      ■ < > ■ HelloPlayground

      1
      var name: String = "Paul"

      2
      var age: Int = 27

      3
      name = 29

      Image: Int = 27

      Image: Int = 27

      Image: Int = 27

      Image: Int = 29
```

Playground execution failed: /var/folders/hn/bypbckddlnnd73xzkjhxlsfc0000gn/T/./lldb/20088/ playground15.swift:3:8: error: cannot assign value of type 'Int' to type 'String' name = 29 ^~

	Rea	dy Today at 17:42	01					
毘	器 I < > I in HelloPlayground							
1	<pre>var band = ["bass": "Paul", "guitar": "John"]</pre>	•						
0 2	band ["keyboar	tion was i						

fatal error: unexpectedly found nil while unwrapping an Optional value

	Ready Today at 17:47								
毘	< > HelloPlayground								
1	<pre>var name = "John"</pre>	"John"							
2	<pre>switch name {</pre>								
3	case "Paul":								
4									
	case "John":								
6	<pre>print("Let's play the guitar")</pre>	"Let's play the guitar\n"							
7	fallthrough								
	case "George"								
9	<pre>print("Let's play the sitar")</pre>	"Let's play the sitar\n"							
	case "Ringo":								
11	<pre>print("Let's play the drums") defeult.</pre>								
12	default:								
15	<pre>print("What do you want to</pre>								
14									
14	3								
15									
\bigtriangledown									
	Let's play the guitar								

Let's play the sitar

	Ready Today at 17:49							
⊞ < > ⊨ HelloPlayground								
<pre>1 var i = 0 2 while i < 5 { 3 print("Index 4 i = i + 1 5 } 6 7</pre>	[\(i)]")	0 (5 times) (5 times)						
<pre> Index [0] Index [1] Index [2] Index [3] Index [4]</pre>								

Bil < > ■ HelloPlayground
1 var theBeatles = ["Paul", "John",
 "George", "Ringo"]
2
3 for player in theBeatles {
4 print("Hi \(player)")
5 }
6 |

(4 times)

Hi Paul

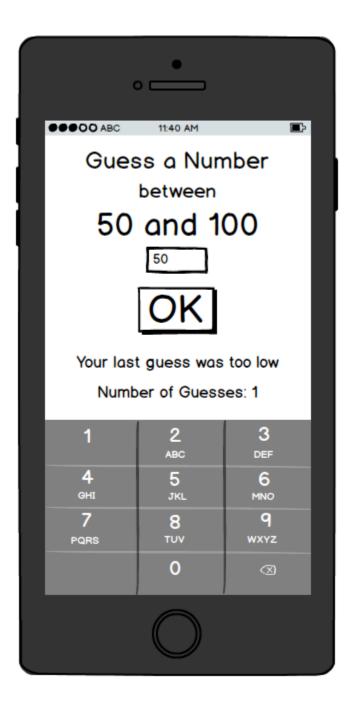
Hi John

Hi George

Hi Ringo

Paul is at index 0 John is at index 1 George is at index 2 Ringo is at index 3

Chapter 2: Building a Guess the Number App





Welcome to Xcode

Version 7.3 beta (7D111g)



Get started with a playground

Explore new ideas quickly and easily.



Create a new Xcode project

Start building a new iPhone, iPad or Mac application.



Check out an existing project

Start working on something from an SCM repository.

File	Edit	View	Find	Navigate	Editor	Product	Debug
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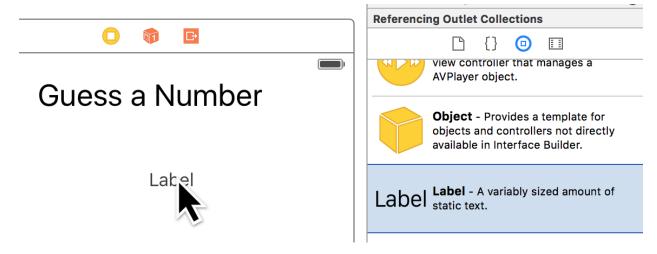
Choose a template for your new project:								
iOS Application Framework & Library Other OS X	Maste	Master-Detail Application Application			1 Single View Application			
Product Name:	GuessTh	eNumber						
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Organization Identifier:	uk.co.eff	uk.co.effectivecode						
Bundle Identifier:	uk.co.effe	uk.co.effectivecode.GuessTheNumber						
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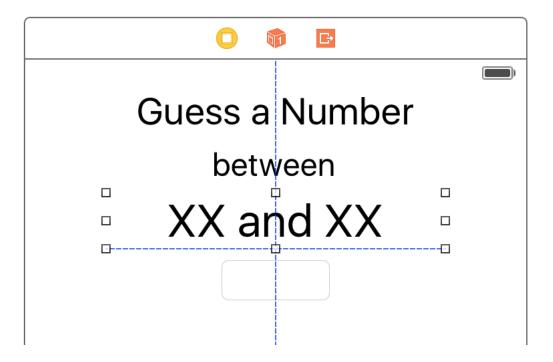
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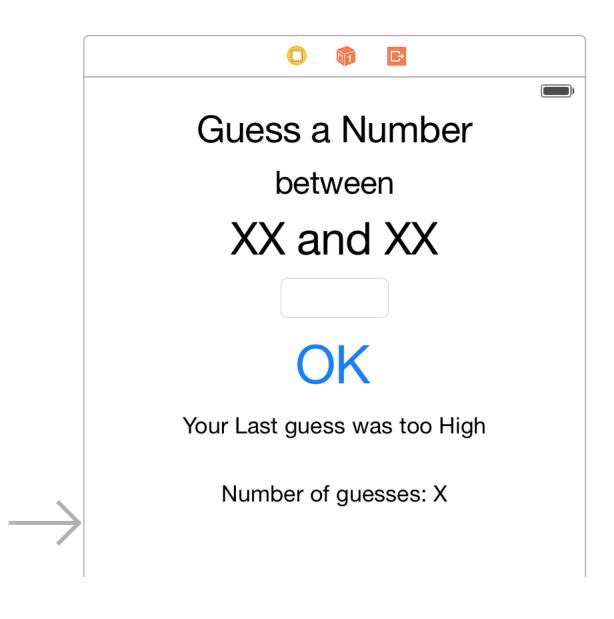
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Simulated Metri	cs						
Size	iPhone 4.7-inch						
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Status Bar	Status Bar Inferred						
Top Bar	Top Bar Inferred						
Bottom Bar	Bottom Bar Inferred						

Label Label - A variably sized amount of static text.						
Button - Intercepts touch events and Button sends an action message to a target object when it's tapped.						
1 2 Segmented Control - Displays multiple segments, each of which functions as a discrete button.						
	Adjust to Fit					
Capitalization	None	\Diamond				
Correction	Default	\Diamond				
Spell Checking	Default	\Diamond				
Keyboard Type	Number Pad	٥				
Appearance	Default	\$				
Return Key	Default	\$				
	Auto-enable Return Key					







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View Controller Scene
View Controller
Top Layout Guide
Bottom Layout Guide
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L Message Lbl
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	Triggered Segues
	manual
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	numberTxtField
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	searchDisplayController
between	view 🛞
VV and VV	Presenting Segues relationship
XX and XX	show
XX and XX	show detail
	present modally
	present modally O popover presentation O embed O
	embed O
OK	push (deprecated)
	modal (deprecated)
	custom O
Your Last guess was too High	Referencing Outlets
	New Referencing Outlet
	Referencing Outlet Collections
Number of guesses: X	New Referencing Outlet Collection
	Received Actions
	onOkPressed:
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numGuessesLbl	le 🔘
rangeLbl	
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	\bigcirc
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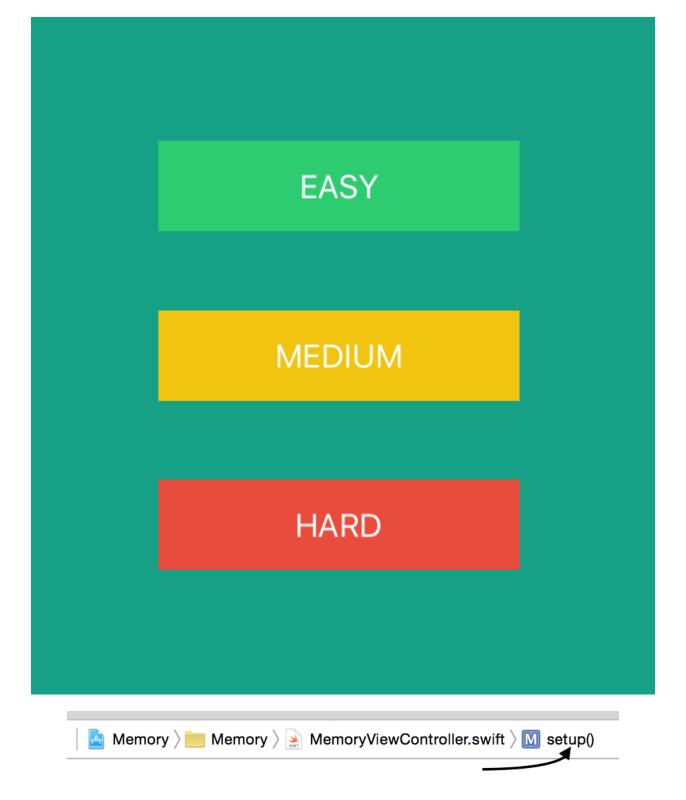
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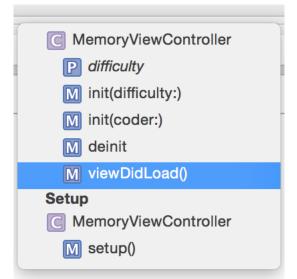
Chapter 3: Building a Guess the Number App

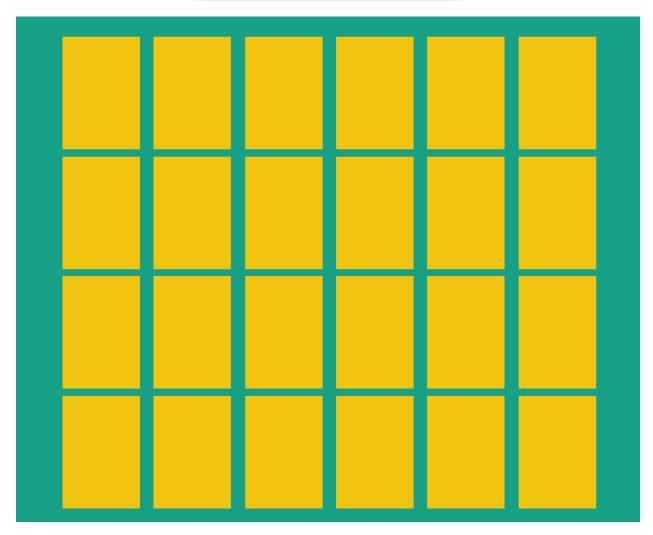
EASY

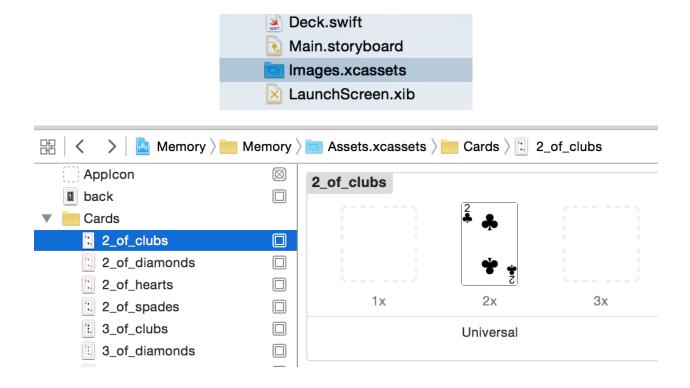
MEDIUM

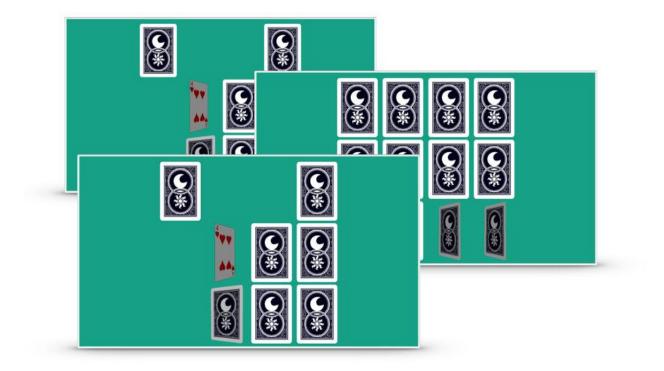
HARD



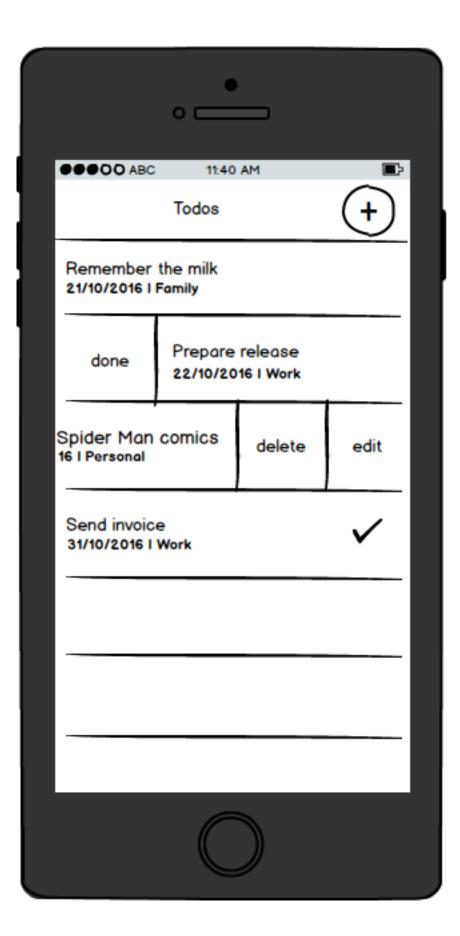


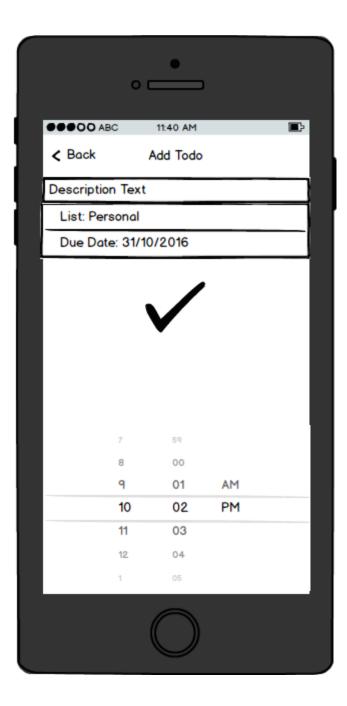






Chapter 4: A TodoList App in Swift





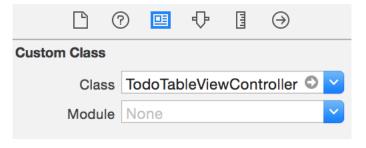
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Class:	TodoTableViewCo	ntroller	
Subclass of:	UITableViewContr	oller	~
	Also create XIB	file	
	iPhone		\$
Language:	Swift		\$

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ViewController.swift	Α
TodoTableViewController.swift	
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Table View Controllerthat manages a table view.

Prototype Cells	
	Table View
	Prototype Content

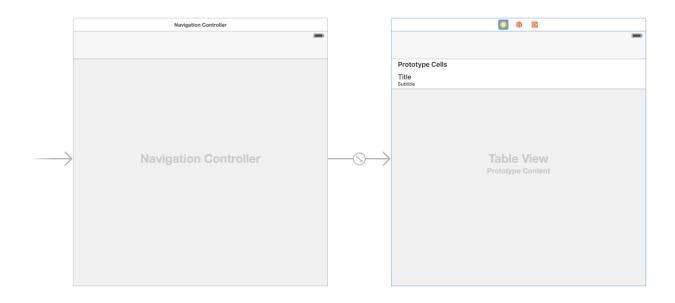


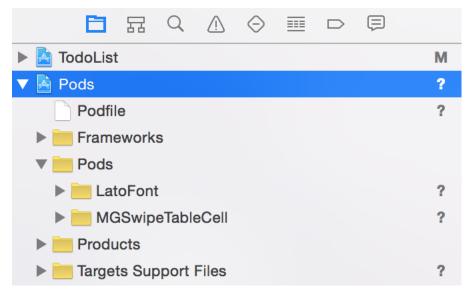
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Todo number 8 Subtitle		
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Item	Bar Button Item - Represents an item on a UIToolbar or UINavigationItem object.
·····	Fixed Space Bar Button Item - Represents a fixed space item on a UIToolbar object.
4	Flexible Space Bar Button Item - Represents a flexible space item on a
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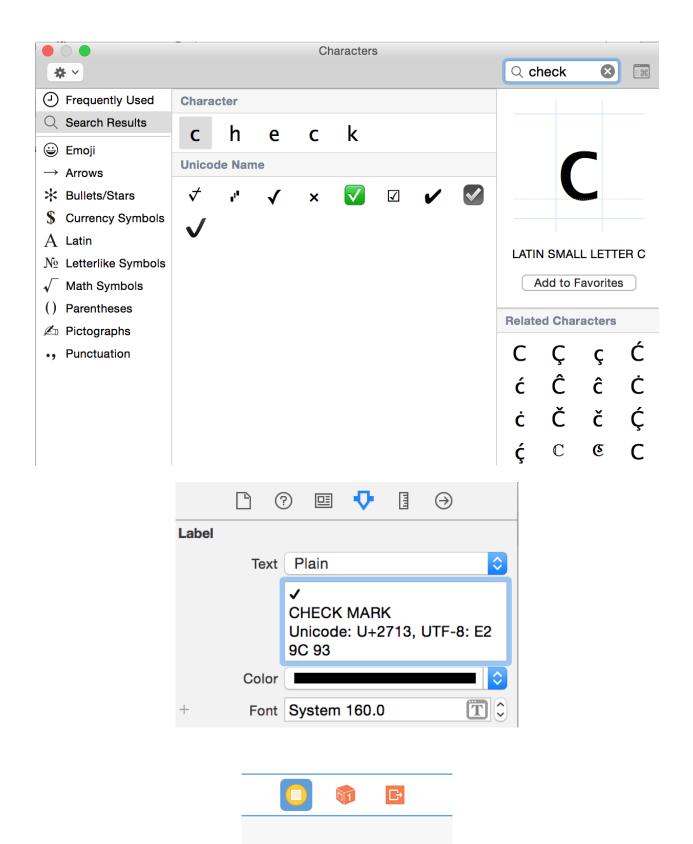
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	d: x=20, y=0, width=580, height=50 =226, y=8, width=97, height=30	
Actual: x		
Actual: x	=226, y=8, width=97, height=30	
Actual: x	=226, y=8, width=97, height=30	
Actual: x Update frame Set the frame Update constr Set the constr match the cur Reset to sugg Remove each	=226, y=8, width=97, height=30	
Actual: x	=226, y=8, width=97, height=30	

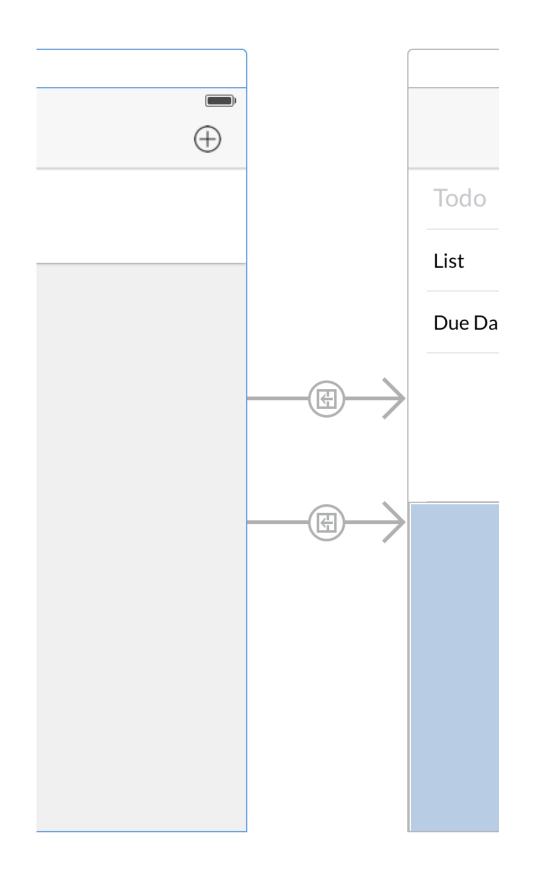
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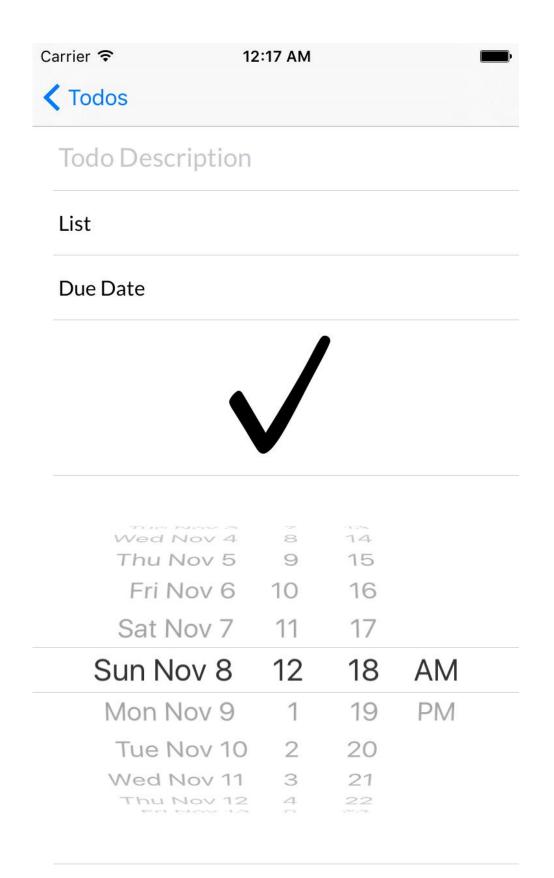
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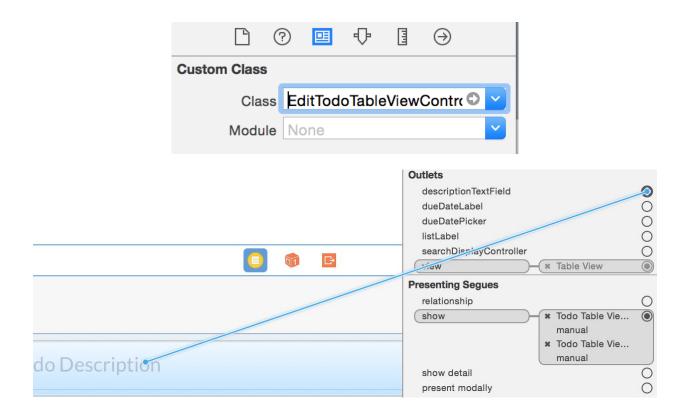


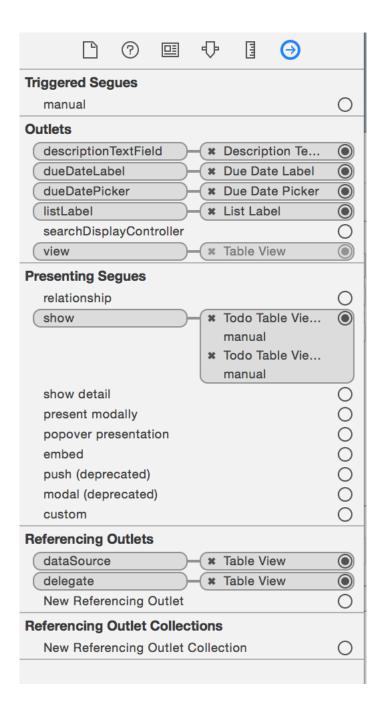
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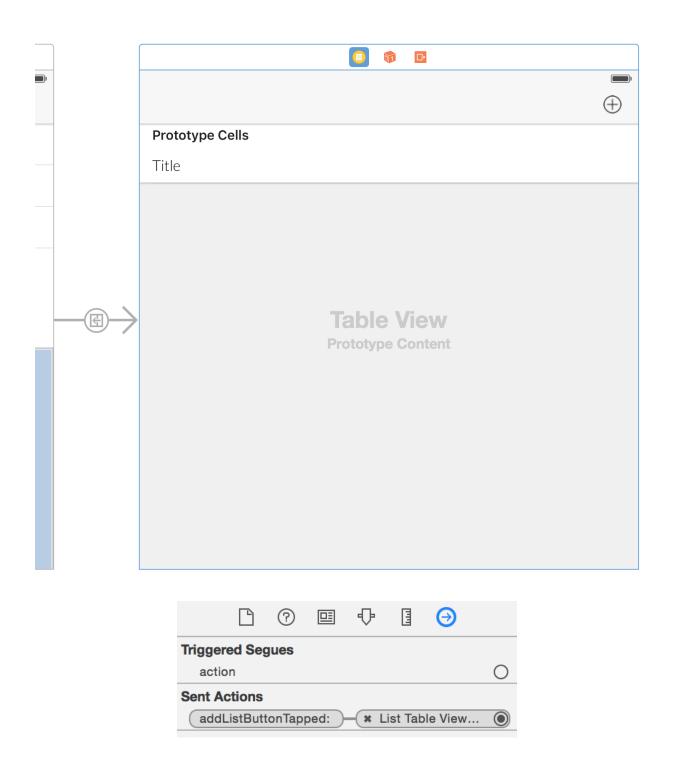


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Segue Class UIStoryboardSegue	
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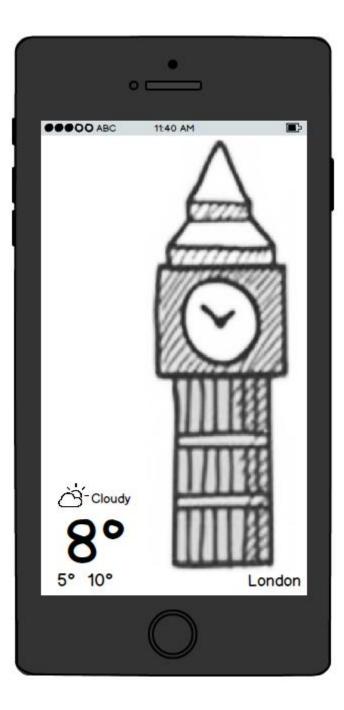






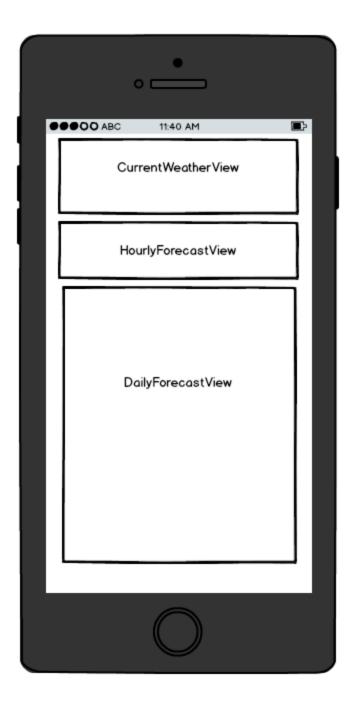
Chapter 5: A Pretty Weather App

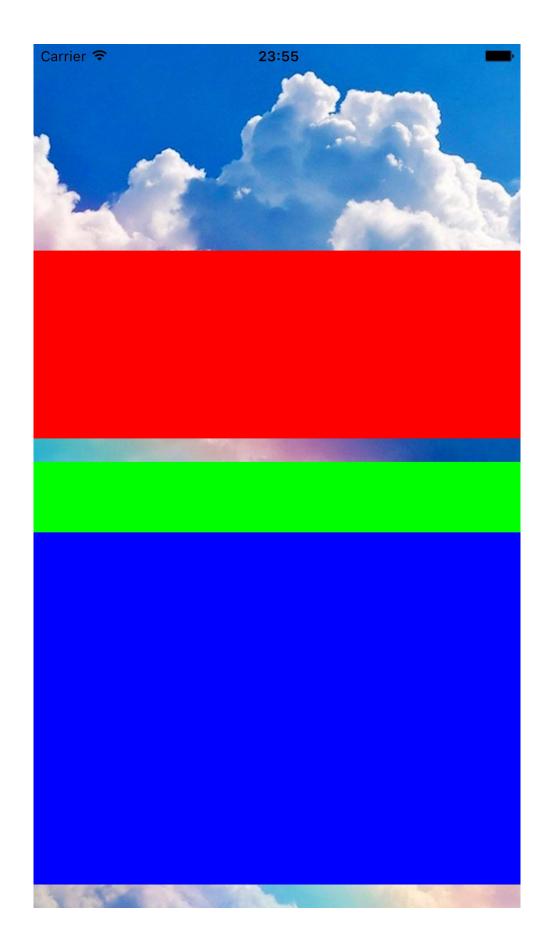




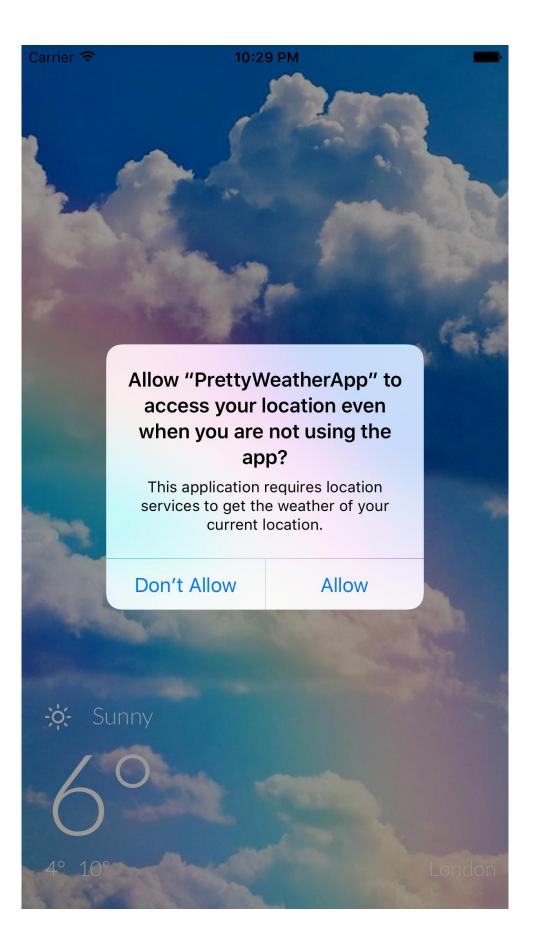








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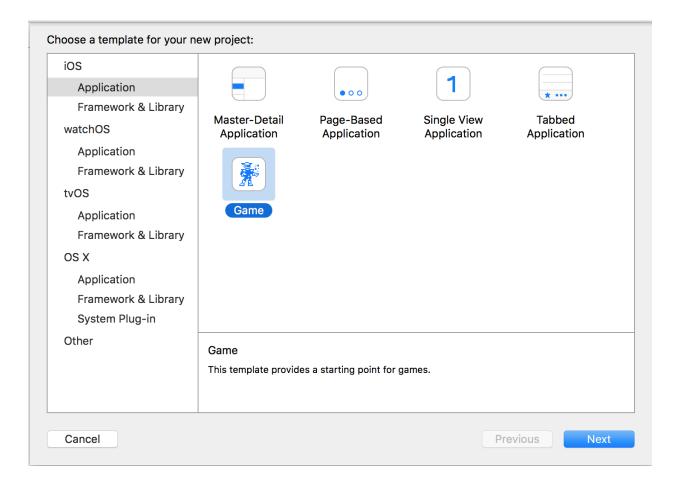
NSLocationAlwaysUsageDescription		String	This application requires
App Transport Security Settings		Dictionary	(1 item)
Exception Domains		Dictionary	(1 item)
▼ openweathermap.org		Dictionary	(3 items)
NSTemporaryExceptionMinimumTLSVersion		String	TLSv1.1
NSTemporaryExceptionAllowsInsecureHTTPLoads		Boolean	YES
NSIncludesSubdomains		Boolean	YES
Supported interface orientations	^	Array	(3 items)



Chapter 6: Flappy Swift

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Play	
Game Center	

•	
ABC 11:40 AM	
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Choose options for your new project:			
Product Name:	FlappySwift		
Organization Name:	Giordano Scalzo		
Organization Identifier:	co.uk.effectivecode		
Bundle Identifier:	co.uk.effectivecode.FlappySwift		
Language:	Swift	\$	
Game Technology:	SpriteKit	\$	
Devices:	iPhone	\$	
	Include Unit Tests		
	Include UI Tests		
Cancel		Previous	Next
			How

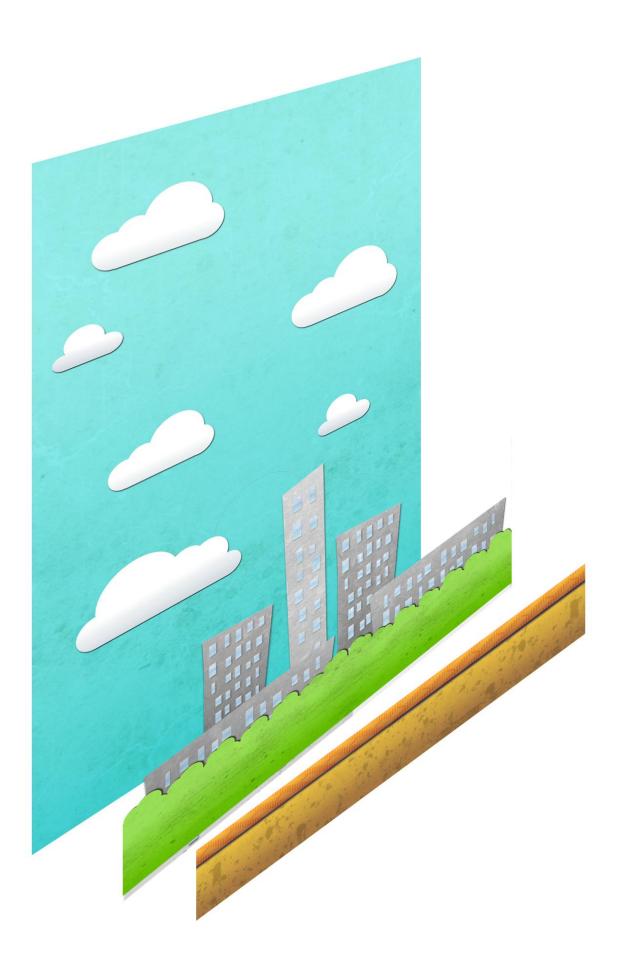


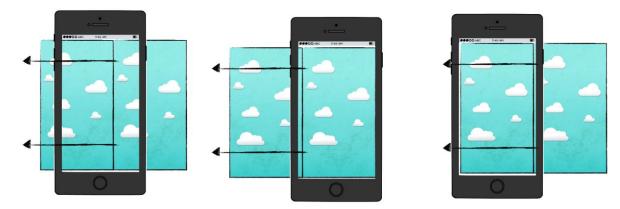
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Play

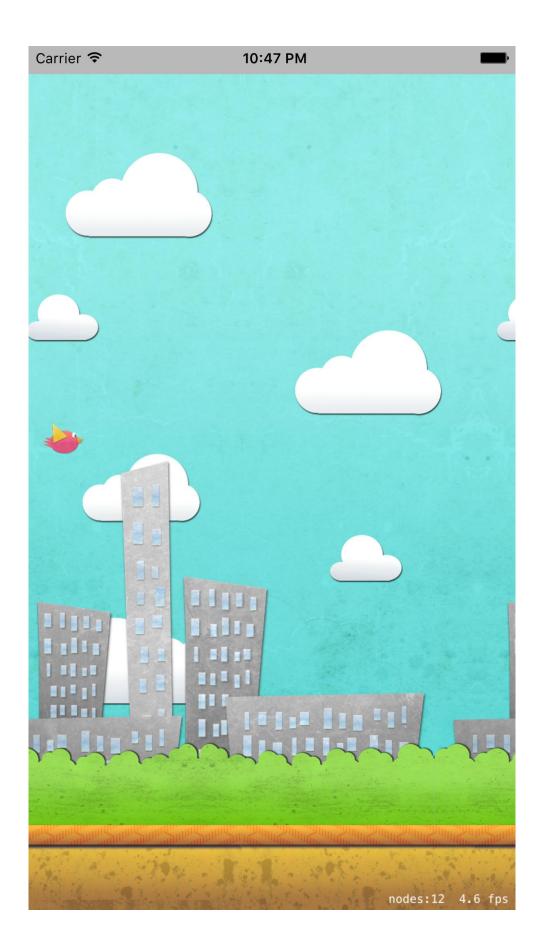
Game Center

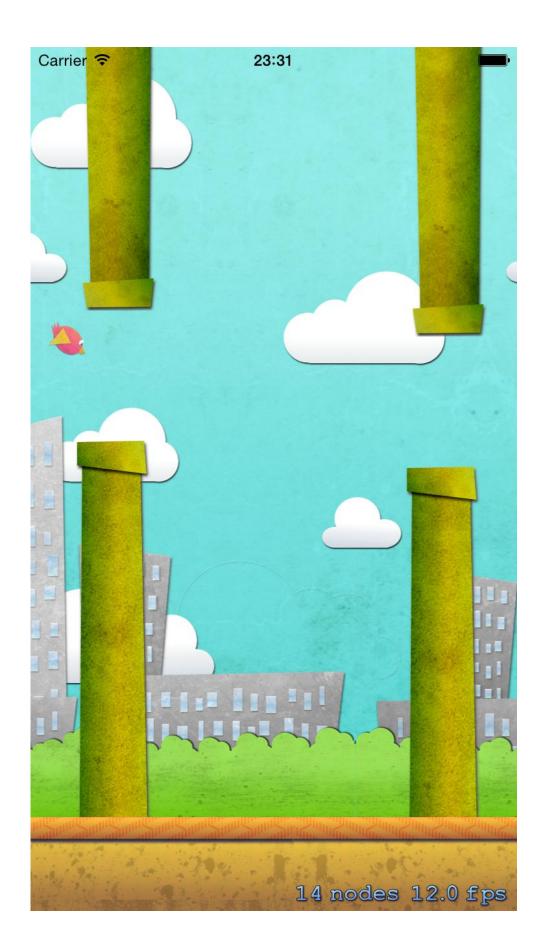


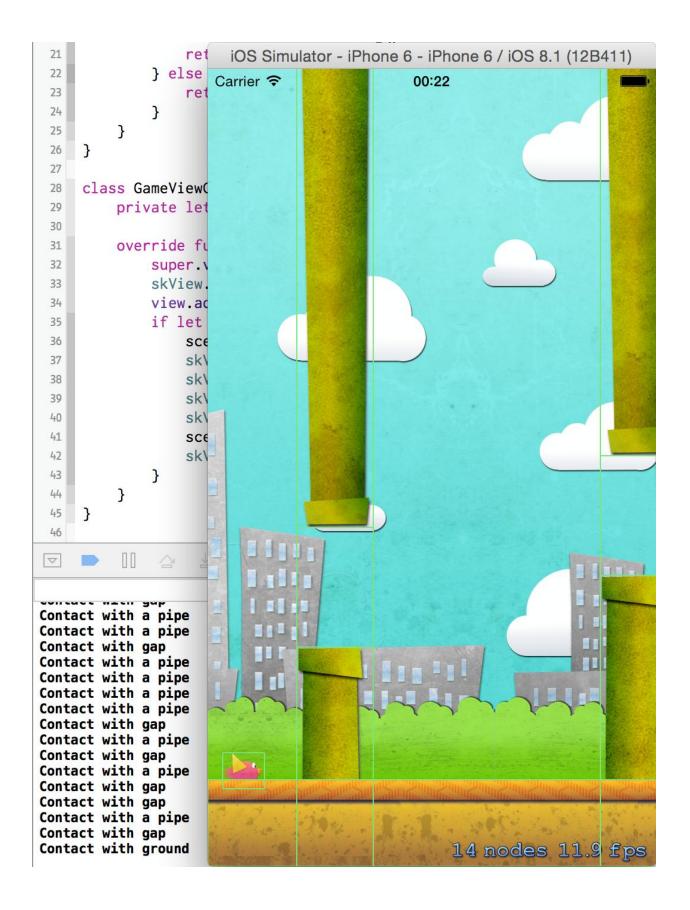


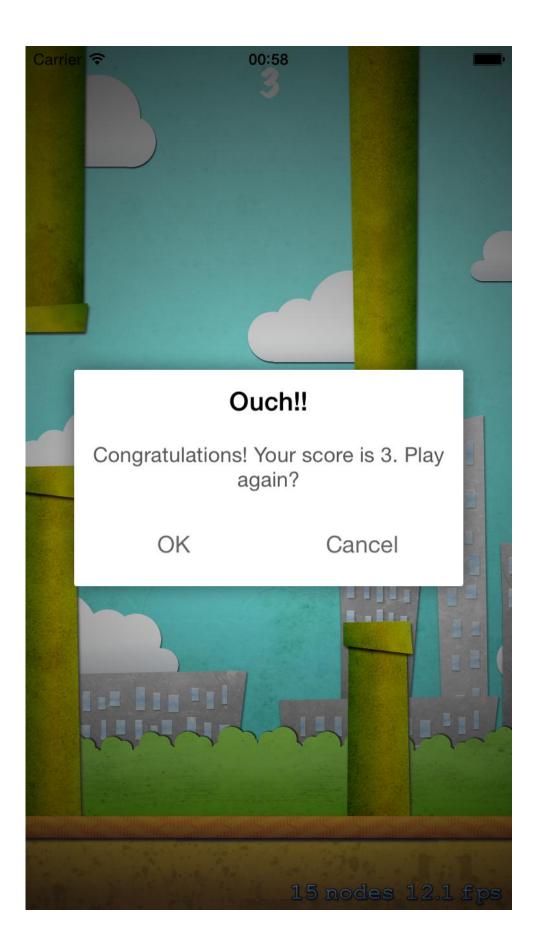












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	Genera	@	ehaviors		
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FlappySwift M 2 targets, IOS SDK 8.1 M FlappySwift SKActionSwift.swift MusicPlayer.swift Actors Nodes Background.swift Startable.swift FlappySwift FlappySwift MusicPlayer.swift FlappySw	Cener PROJECT FlappySwift TARGETS FlappySwiftTests	▼ Identity Bundle Iden Ver		Build Phases	Build Rules
General Capabiliti		uild Settings Bi	uild Phases	Build Rules	OFF
▼ & Game	✓ Link Gar	"Game Center" entitle neKit.framework "GameKit" key to you		o ID	ON

Chapter 7: Polishing Flappy Swift



iTunes Connect My Apps ~

+ •••

Name ?		Version ?	
Flappy Swift		1.0.0	
Primary Language ?		SKU ?	
English	~	flappy_swift_1.0.0	
Bundle ID ?			
Flappy Swift - uk.co.EffectiveCode.Fla	appySwi ~		
Register a new bundle ID on the Developer F	Portal.		

< My Apps							
	Flappy Swif • 1.0.0 Prepare for						
Versions	Prerelease	Pricing	In-App Purchases	Game Center	Reviews	Newsstand	More ~

Flappy Swift - Gar	ne Center
Enable Game Center To add Game Center to your app binary, you must include the feature in the Game Kit a group of games. Both options enable multiplayer features including compatibility acr	
Single Game Select this option if your app has its own set of leaderboards and achievements. Enable for Single Game	Group of Games Select this option if this app shares leaderboards and achievements with other apps you have provided. Enable for Group Games

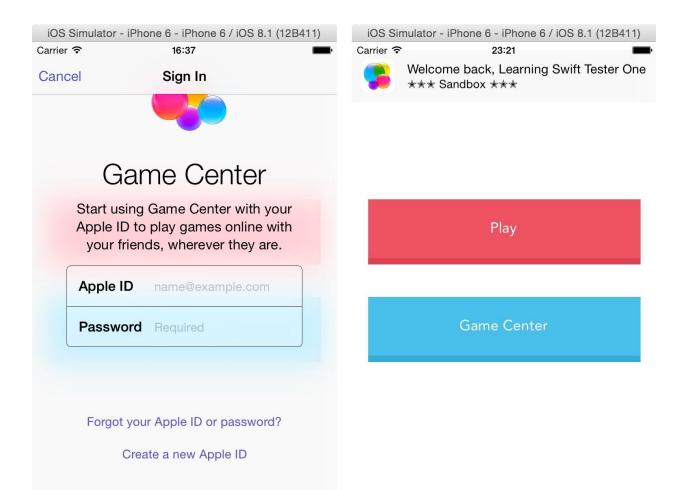
ame Center has been enabled for your a	app. Click below if you want to disable it.	app with othe	derboards and achieve er apps you have prov ne Center group. roup	
Annot be removed. Add Leaderboard Delete Test Da	top scores of all Game Center players of yo	ur app. Leaderboards		
0 Leaderboards Reference Name	Leaderboard ID	Туре	Q Sear	Status
	Click Add Leaderboard to get	surcu.		
	player earns for reaching a milestone, or ponte on the state of the st		defined by you and	programmed i
our app. Once an achievement has g			defined by you and	
our app. Once an achievement has g Add Achievement				

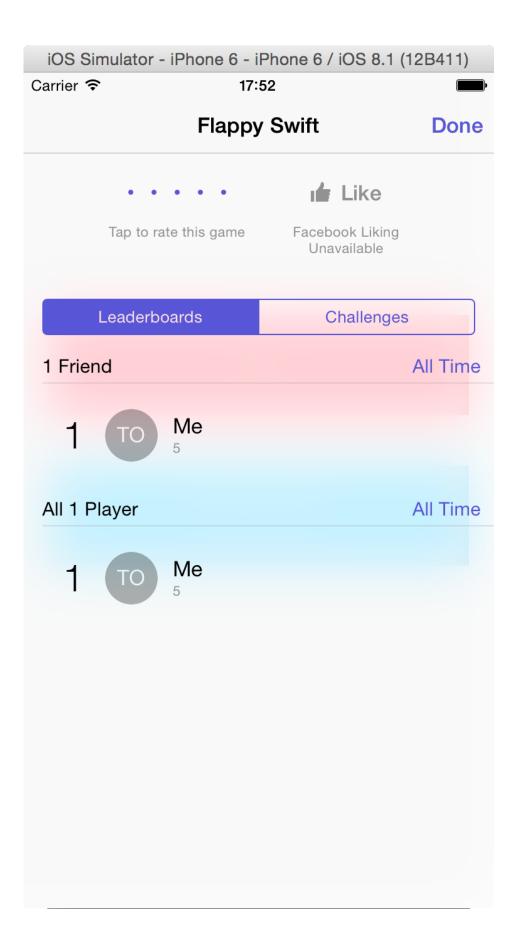
	Flappy	Swift - Add Leaderboard		
Single Lea	aderboard			
	Londorboard Deference N	2		
		Flappy Swift Leaderboard	0	
	Leaderboard		(?)	
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Leaderbo	ard Localization			
		derboard Name Score Format ck Add Language to get started.		
Cancel				Save

Users and Roles

iTunes Connect Users and Roles ~

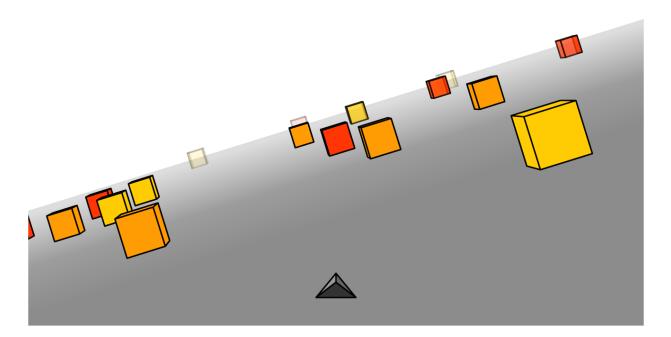
iTunes Connect Users	TestFlight Beta Testers	Sandbox Testers
iTunes Connect Users and Roles ~		giordano scalzo ∽ giordano scalzo
< Sandbox Testers Add Sandbox Tester		
		Cancel Save
Tester Information First Name Tester Email giordano.scalzo+tester1@gmail.com	Last Name One	
Password	Confirm Password	
•••••	•••••	
Secret Question	Secret Answer	
Favourite super hero	spiderman	
Date of Birth January <	App Store Territory United Kingdom	↓ ▼





Chapter 8: Cube Runner

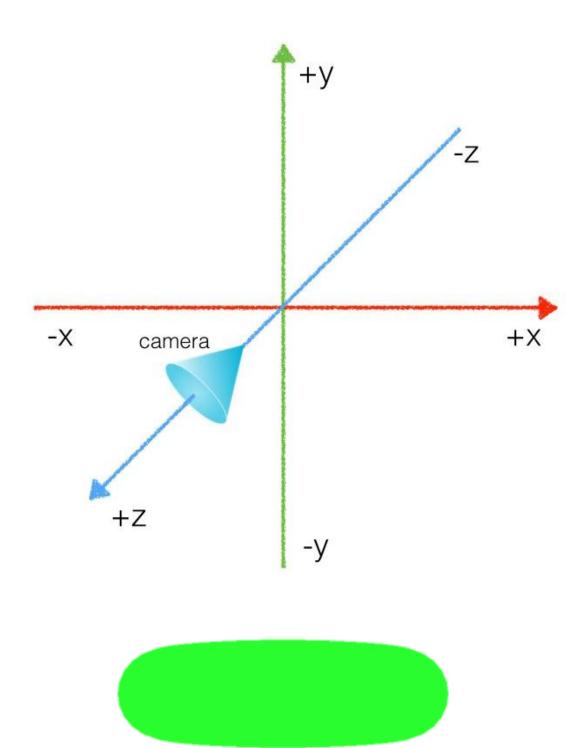
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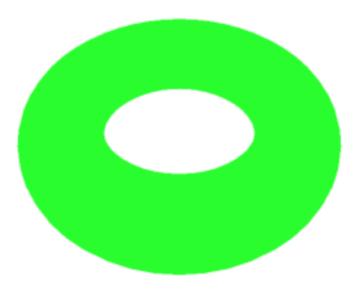


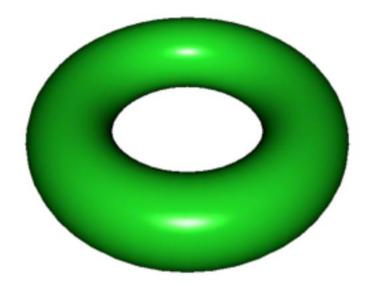
< 📏 🛃 SceneKitPlayground

	import UIKit	
2	<pre>import SceneKit</pre>	
3	<pre>import XCPlayground</pre>	
4		
5	<pre>var sceneView = SCNView(frame:</pre>	SCNView
6	CGRect(x: 0, y: 0,	
7	width: 400, height: 400))	
	<pre>var scene = SCNScene()</pre>	<scnscene: 0x7ffaebd28c70=""></scnscene:>
9	<pre>sceneView.scene = scene</pre>	SCNView
10	<pre>XCPlaygroundPage.currentPage.liveView =</pre>	
	sceneView	

View	Find	Navigate	Edi	tor	Product	Debug	Source Cont
Stan	dard Ec	ditor			BO	5097 08.0	docx
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Hide Toolbar			A	ssistant Ed	itors on B	ottom	
Show Tab Bar					I Editors S I Editors S		-











Product Name:	CubeRunner
Organization Name:	Giordano Scalzo
Organization Identifier:	co.uk.effectivecode
Bundle Identifier:	co.uk.effectivecode.CubeRunner
Language:	Swift 🗘
Game Technology	SceneKit O
Devices:	iPhone Contract of the type of
	Include Unit Tests
Device Orienta	ation Vertrait Upside Down Landscape Left Landscape Right
Status Bar	Style Default ᅌ

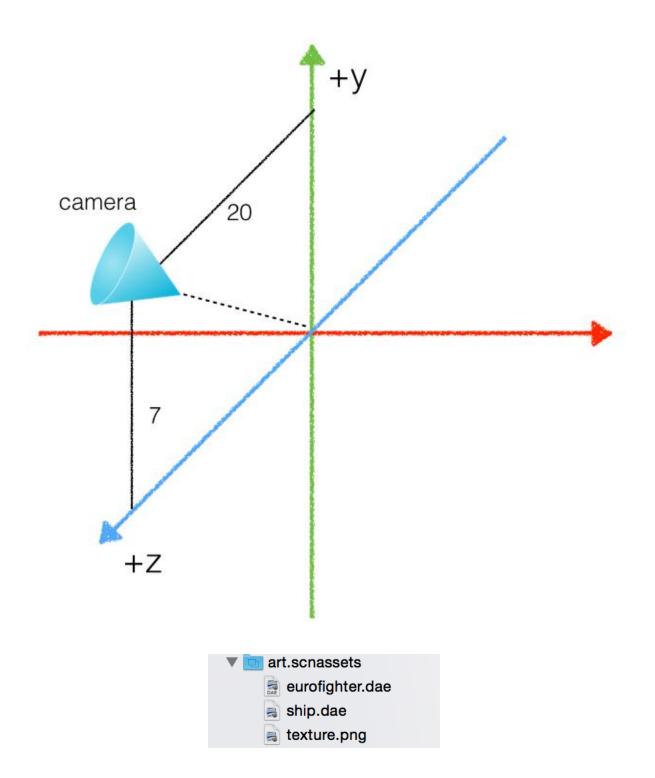


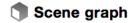
10:17 PM

Cube Runner

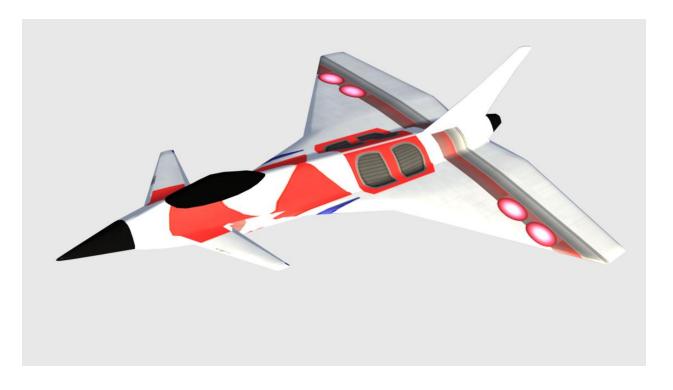


Game Center



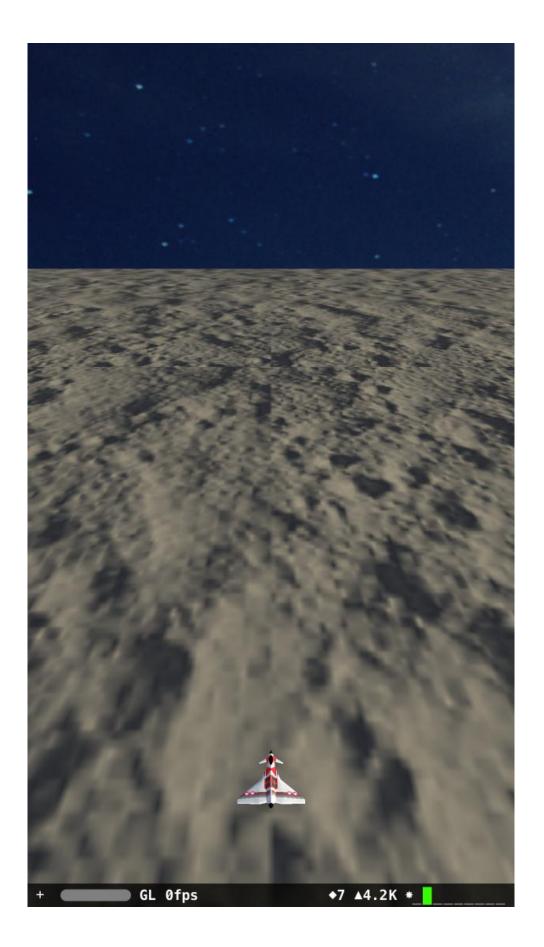


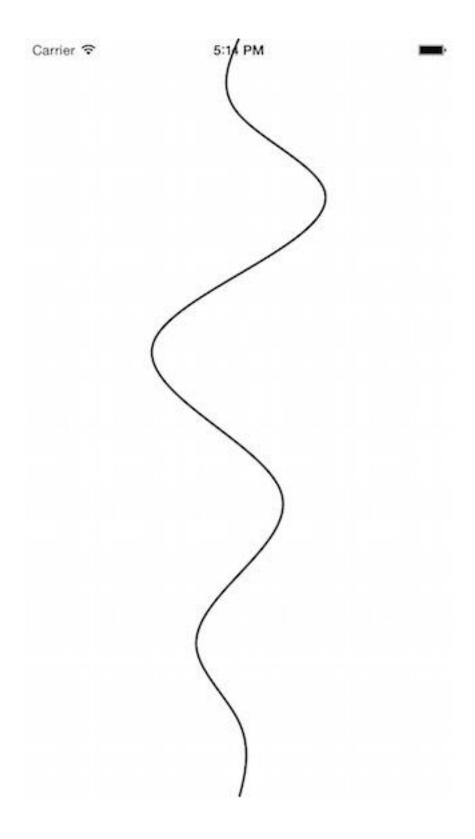
lamp_ambient	*
lamp_ambient	*
lamp_directional	*
camera	
jetfighter	

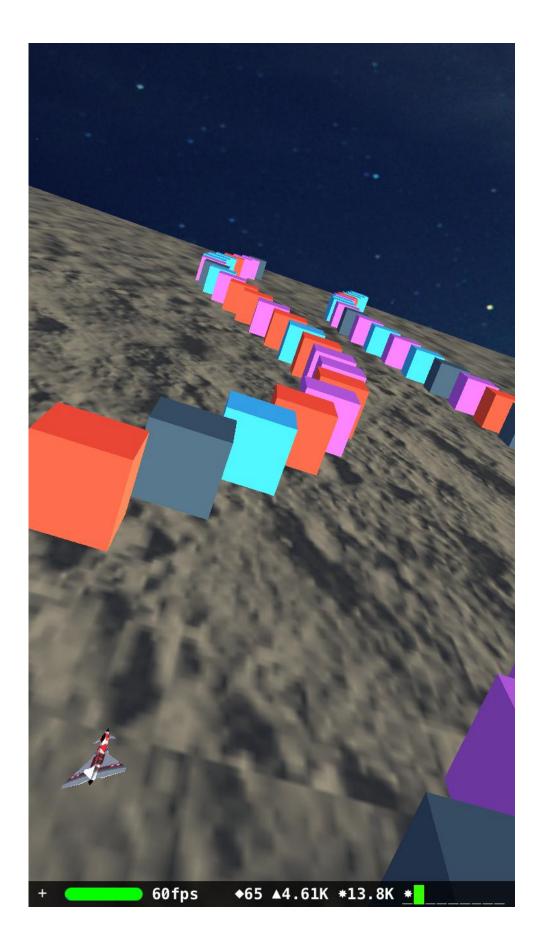


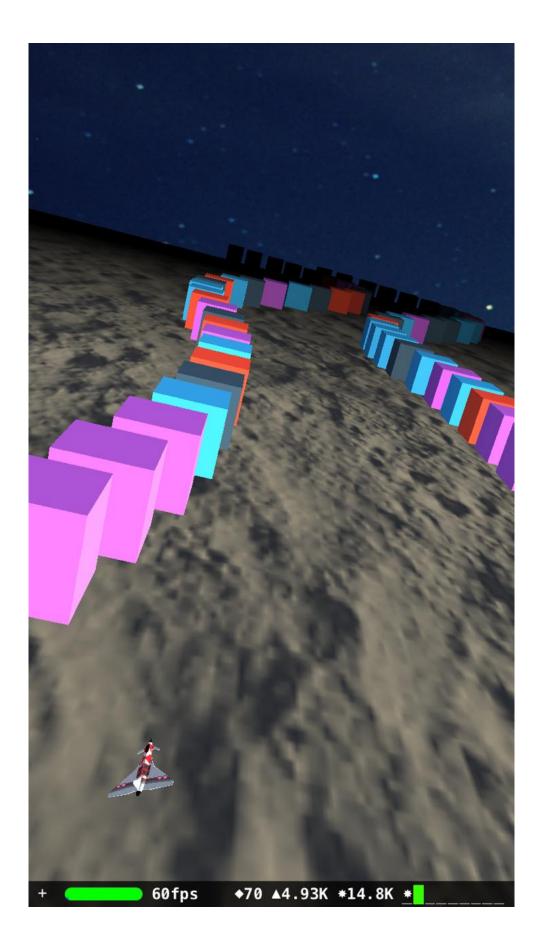


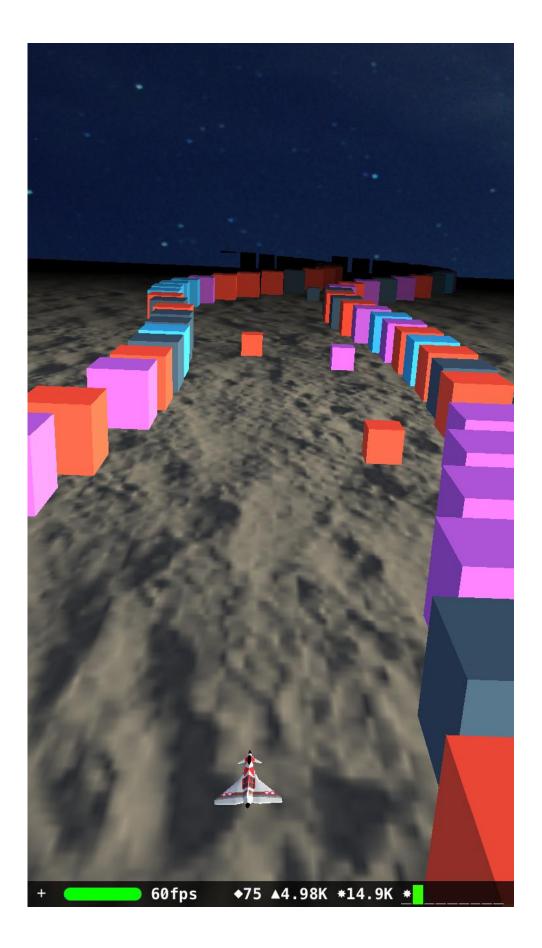


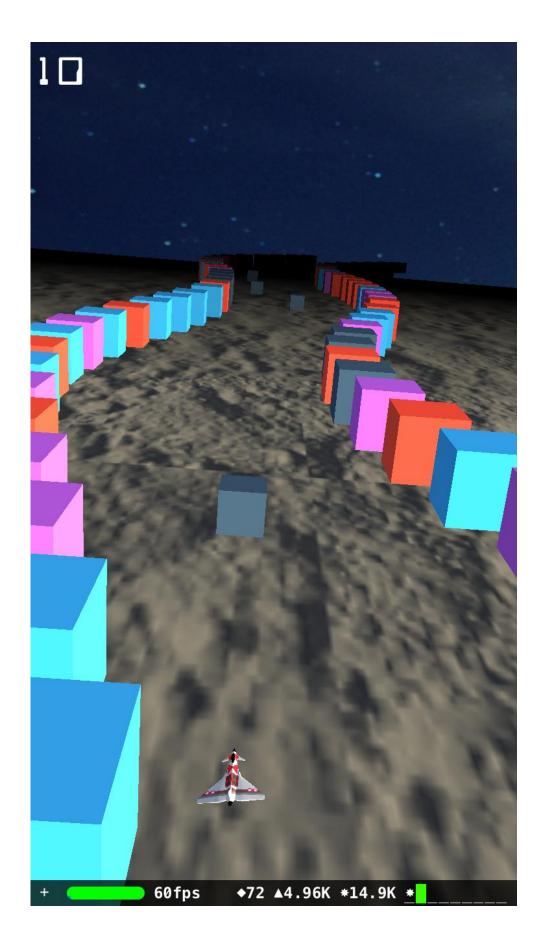




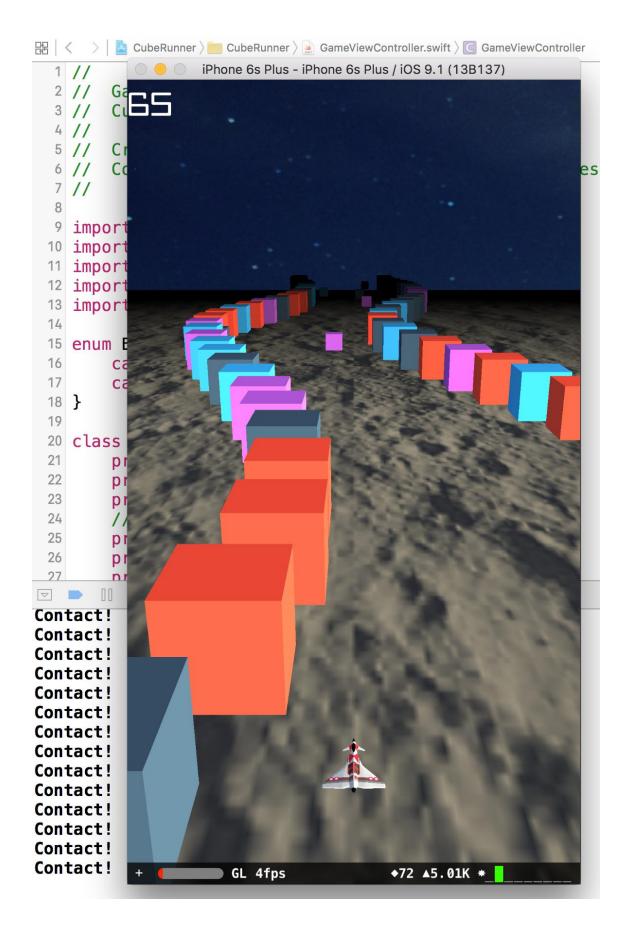




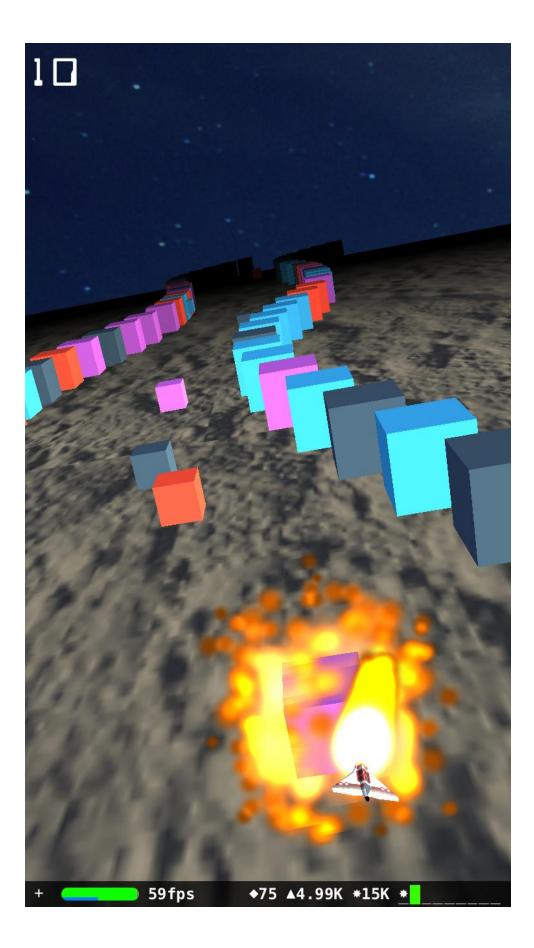




Chapter 9: Completing Cube Runner

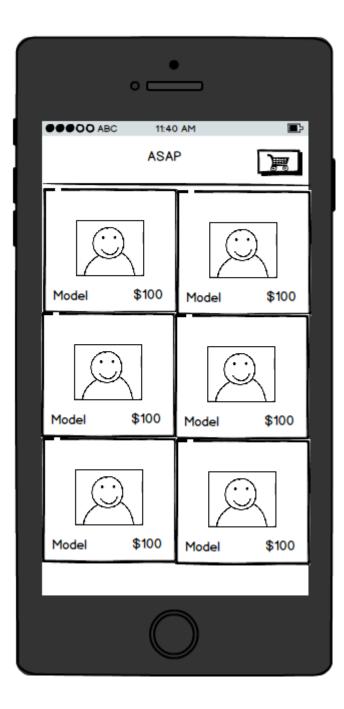


Thread 10 128 Queue: com.apple.scenekit.renderingQueue.SCNView0x14d512c50 (serial) 129 1 O CubeRunner.GameViewController.((createContents in _5A8571F8221AA3 129 1 CubeRunner.GameViewController.physicsWorld (CubeRunner.GameView 130 2 @objc CubeRunner.GameViewController.physicsWorld (CubeRunner.Game 131 3 btC3DCollisionDispatcher::dispatchContactsToDelegate() 133 16 _pthread_start 134	<pre>scnView.scene = scene gameOver = { [unowned self] in self.laneTimer.invalidate() self.scoreTimer.invalidate() self.scene.physicsWorld.contactDelegate = nil self.cameraNode.removeAllActions() jetfighterNode.removeAllActions()</pre>
	Particle System
	Emitter
	Birth rate
	Warmup dur 0 +
	Location Surface
	Emission space World space
	Direction mode Surface normal
	Spreading angle - 28° +
	Initial angle $-$ 0° + $ \triangle$ =14.4 +
	Shape Sphere
	Shape radius - 1.5 +
	Simulation
	Life span
	Linear velocity - 1.5 + - Δ=0.2 +
	Angular velocity - 0 + - △=0 +
	Acceleration - 0 + - 1 + - 0 +
	x y z
	Speed factor - 1 +
	Stretch factor - 0 +
	Image
	Image spark.png
	Color
	Animate color
	Size <u>- 1 +</u> <u>- ∆=0.5 +</u>
	Custom animation

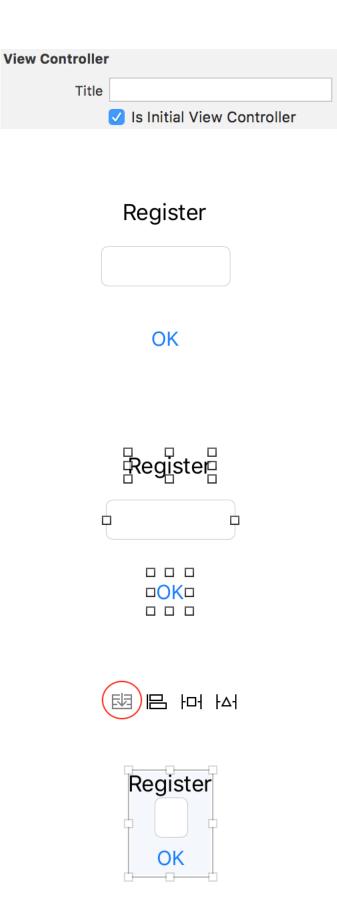


Chapter 10: ASAP – an E-commerce App in Swift

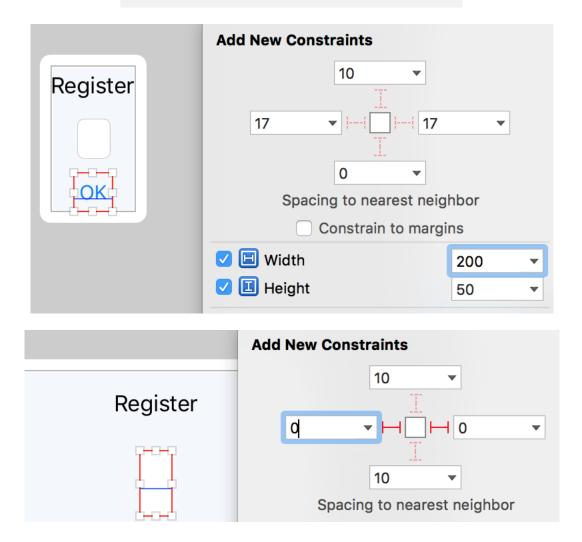
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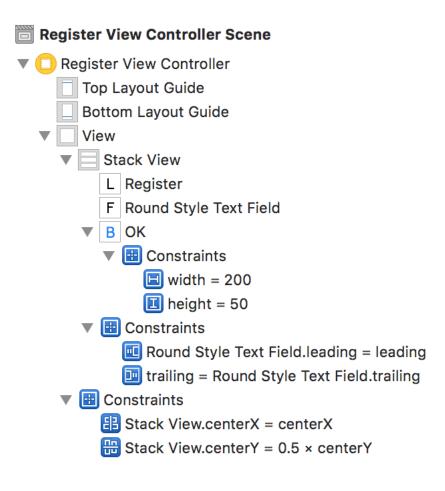


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	Model 2						
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Custom Class							
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Module None							~



Stack View								
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+	Distribution	Fill Equally	\$					
+	Spacing		10 🗘					
+	(Baseline Relative						



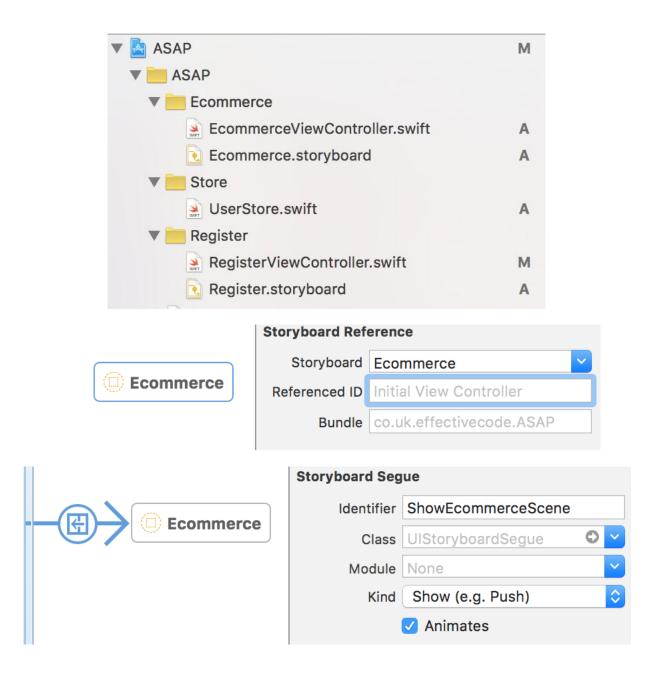


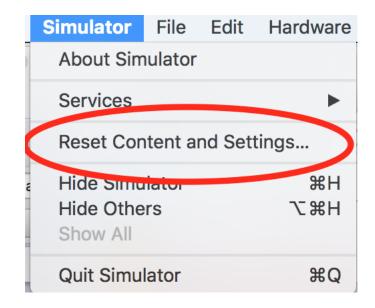
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Background	Backg	round	Image		~
Disabled	Disab	led Ba	ckgrou	nd Ima	age 🗸
Border Style] [\bigcirc
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Correction	Defa	ult			\$
Spell Checking	Defa	ult			\$
Keyboard Type	E-ma	il Addı	ress		\$
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Return Key	Defa	ult			\$

Register
Email Address
ОК

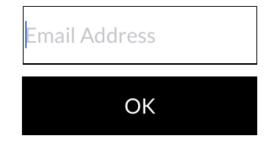
Touch Drag Outside	0
Touch Up Inside Register View	
signinTapped:	
Touch Up Outside	0
Value Changed	\bigcirc
Referencing Outlets	
okButton 🛛 🖊 🕷 Register View	0
New Referencing Outlet	\bigcirc
Referencing Outlet Collections	
New Referencing Outlet Collection	0

Did End On Exit	Ο
Editing Changed * Register View	
emailTextField	
Editing Did Begin	Ο
Editing Did End	\bigcirc
Primary Action Triggered	Ο
Touch Cancel	Ο
Touch Down	0
Touch Down Repeat	Ο
Touch Drag Enter	Ο
Touch Drag Exit	Ō
Touch Drag Inside	Ο
Touch Drag Outside	Õ
Touch Up Inside	Ο
Touch Up Outside	Ο
Value Changed	Ο
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emailTextField Register View	0
New Referencing Outlet	0

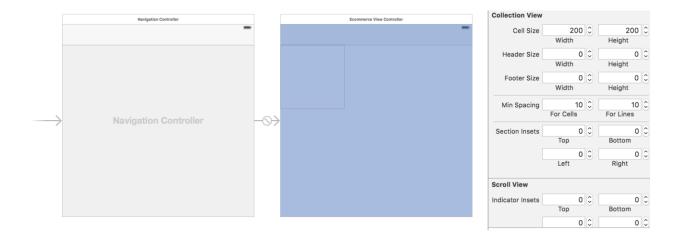




Register

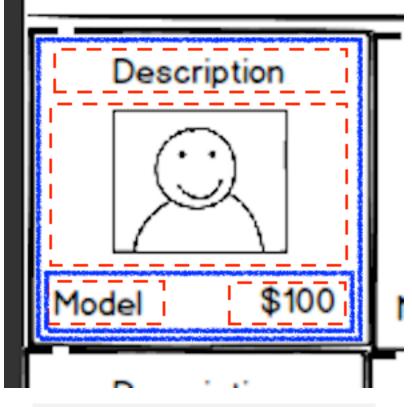






Carrier 🗢	3:26 PM
	ASAP

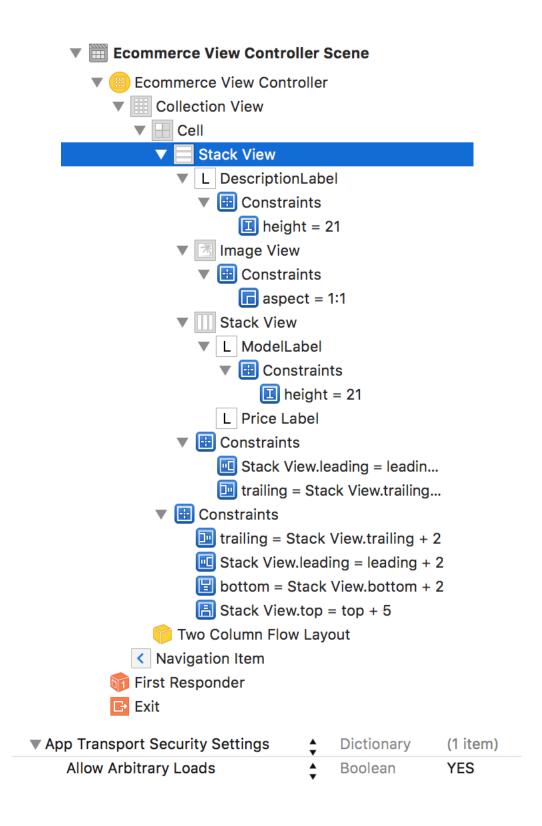
Carrier 🗢	3:29 PM	
	ASAP	



Stack View

+	Axis	Horizontal	\$
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+	Distribution	Equal Spacing	\$
+	Spacing		0 🗘
+	(Baseline Relative	

DescriptionLabel
n Image View
ModelLabel Price Label







Fantastic Concrete Glo... Aerodynamic Granite S...





mlkshk

\$71.53 tacos

\$46.51

Rustic Concrete Pants

Small Bronze Bench



biodiesel

sel

Heavy Duty Linen Pants Synergistic Leather Chair

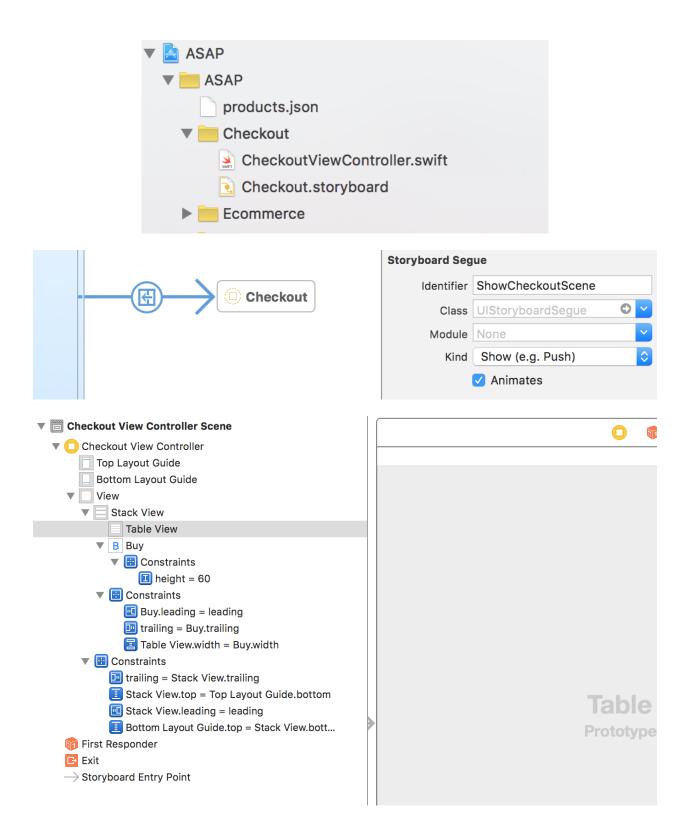


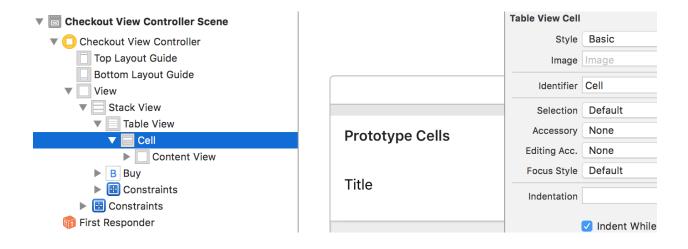
\$81.05

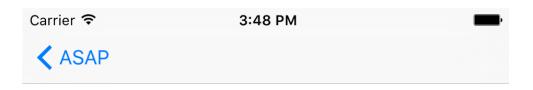
uty Linen Pants Synerg















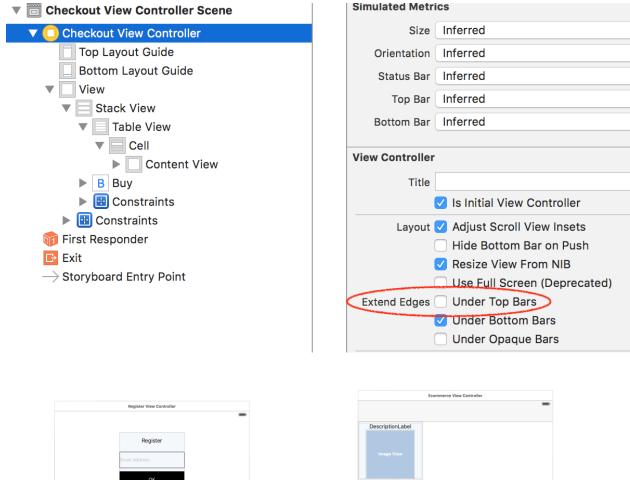
normcore

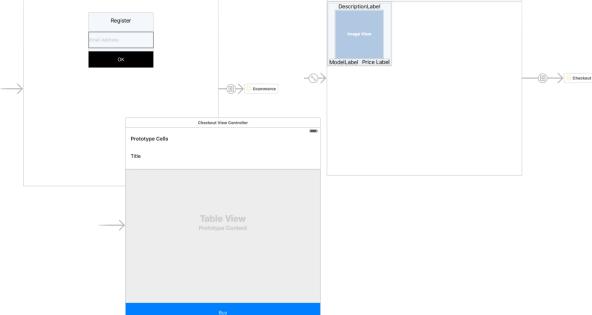
synth

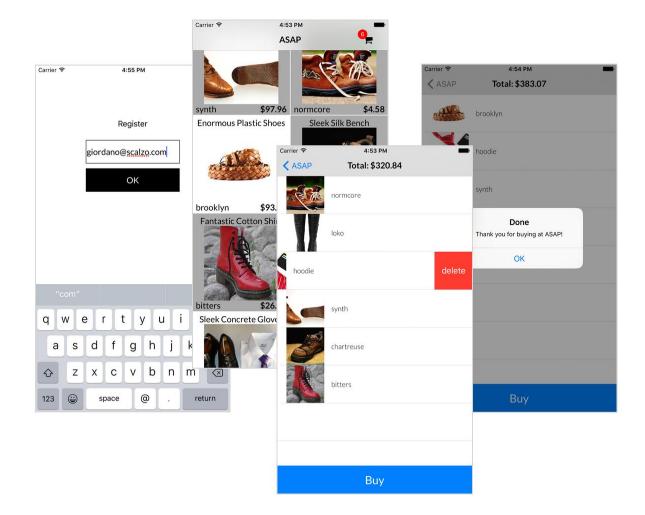


chartreuse

Buy







Chapter 11: ASAPServer, a Server in Swift

```
    → Swif2ByExample curl http://localhost:8888/hello/james/bond
Hello Optional("james") Optional("bond")
    → Swif2ByExample
    → Swif2ByExample
    → Swif2ByExample curl -X POST http://localhost:8888/hello/james/bond
{"greeting":"Hello", "surname":"bond", "name":"james"}
    → Swif2ByExample
    → Swif2ByExample
    → Swif2ByExample
```

```
Linking Executable: .build/debug/ASAP
.build/debug/ASAP
Starting...
Hello Optional("james") Optional("bond")
```

```
Created object: {
    "greeting": "Hello",
    "name": "james",
    "surname": "bond"
}
```

```
ASAPServer git: (7_ASAP_9_ASAPWithServer) × make run
swift build
Compiling Swift Mc
                     🔘 😑 💿 iPhone 6s Plus - iPhone 6s Plus / iO...
                                   11:52 PM
Linking Library:
                                   ASAP
Compiling Swift Mc
                     Ergonomic Steel Bag Incredible Concrete Co..
Linking Library:
Compiling Swift Mc
Linking Library:
Compiling Swift Mc
Linking Executable
.build/debug/ASAP
Starting...
                    synth
                                $97.96 normcore
                                                  $4.58
Get /products
                     Enormous Plastic Shoes
                                         Sleek Silk Bench
                                                       to cart of user jamesbond@mi6.org
Add product e75e3t
                                                       to cart of user jamesbond@mi6.org
Add product 65d236
Add product 77e745
                                                       to cart of user jamesbond@mi6.org
Add product a52176
                                                       to cart of user jamesbond@mi6.org
                                                       to cart of user jamesbond@mi6.org
Add product 306184
Remove product 65c
                                                       8b to cart of user jamesbond@mi6.org
                                                 $75.76 5f to cart of user jamesbond@mi6.org
Remove product 77e brooklyn $93.52 chartreuse
Remove product a52 Fantastic Cotton Shirt
                                       Practical Bronze Bag
                                                       c2 to cart of user jamesbond@mi6.org
Add product 77e745
                                                       to cart of user jamesbond@mi6.org
                                                       to cart of user jamesbond@mi6.org
Add product 4f6607
Add product 65d236
                                                       to cart of user jamesbond@mi6.org
                                $26.06 loko
                     bitters
                                      Practical Concrete Car
                     Sleek Concrete Gloves
```