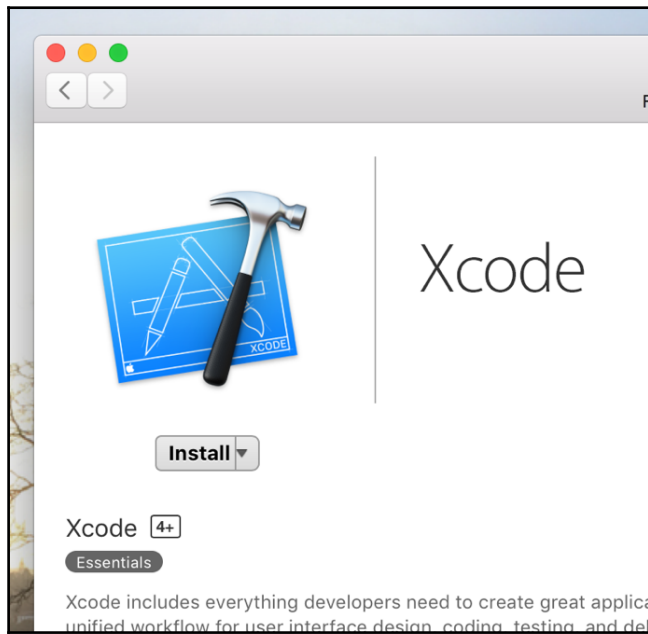
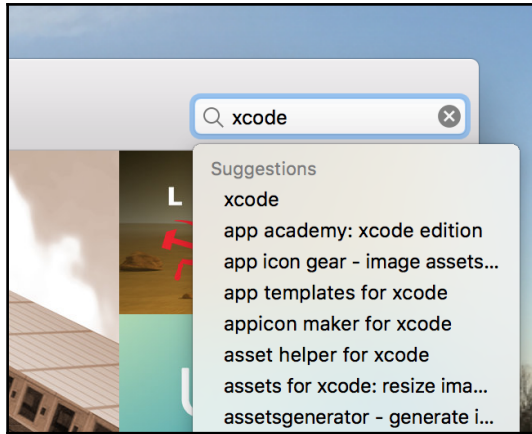
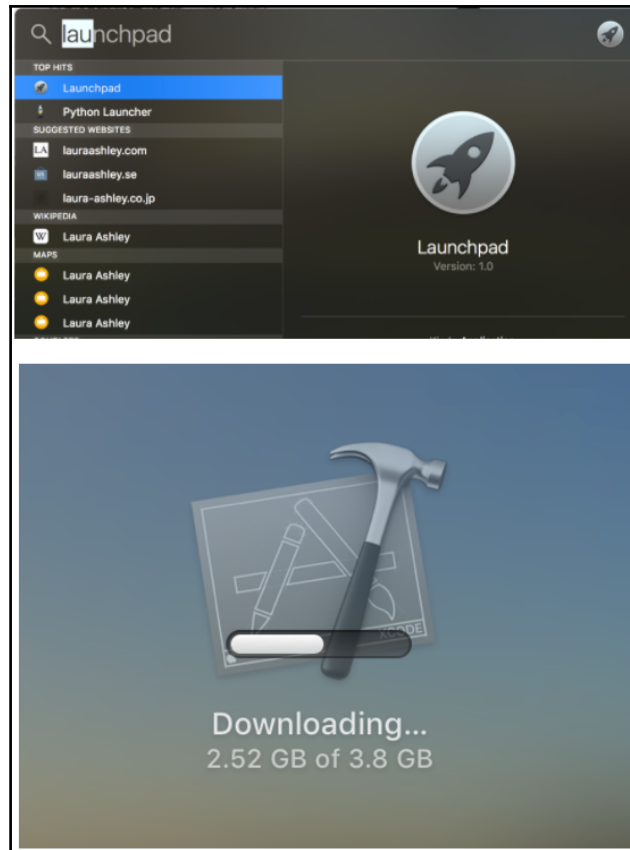


Chapter 1: Swift Building Blocks







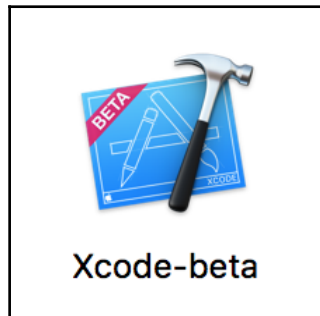
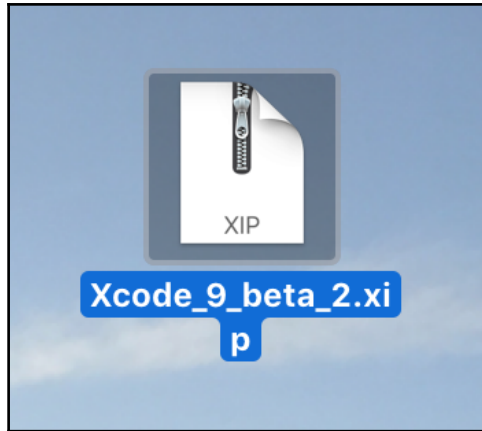
Downloads

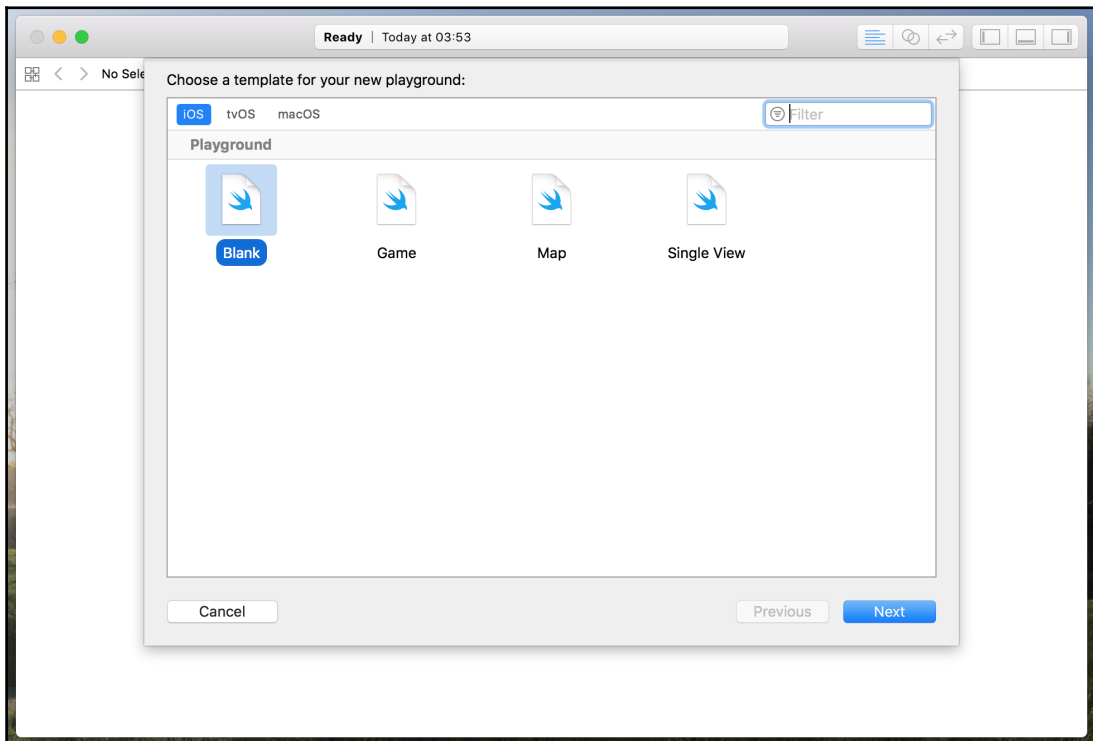
Get the latest beta releases of Xcode, macOS, iOS, watchOS, tvOS, and more.

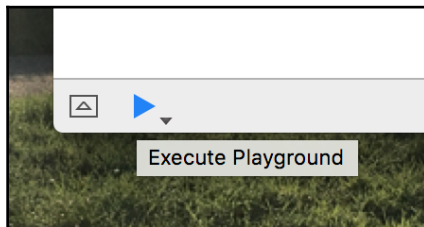
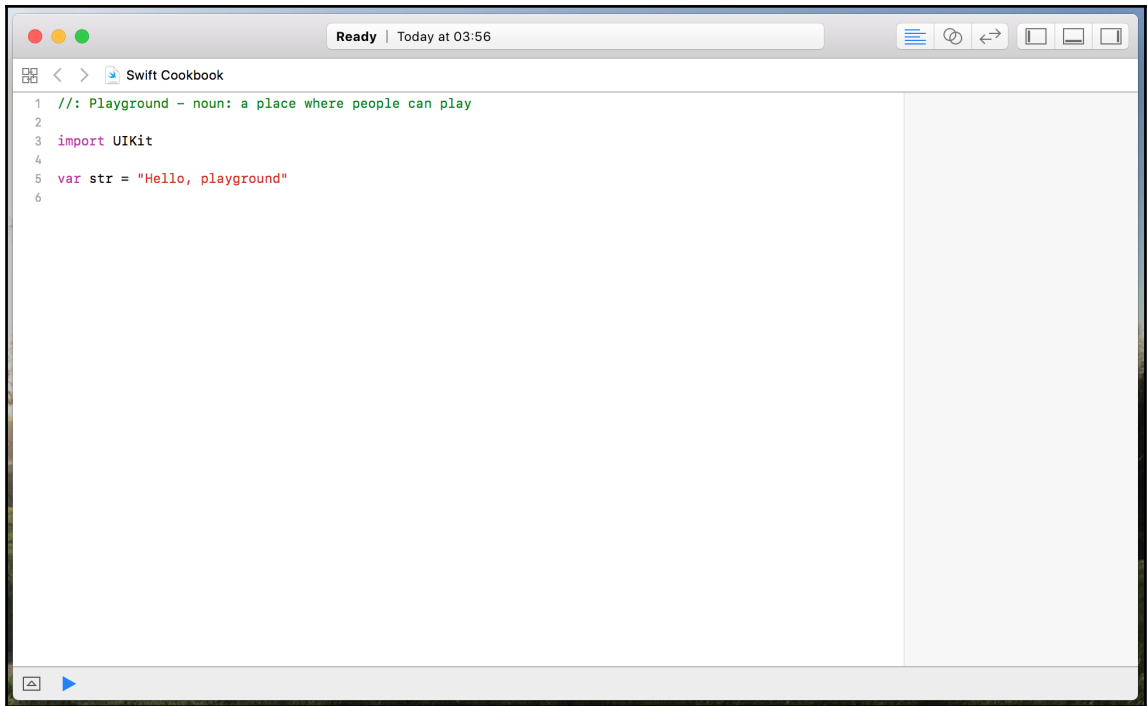
Your use of Apple beta software is subject to and licensed only under the terms and conditions of the Apple Developer Program License Agreement, including any applicable consent to collect diagnostic data set forth therein. If you have not agreed to the Apple Developer Program License Agreement, you are not permitted to use this software. Refer to the software installation guides for complete instructions.

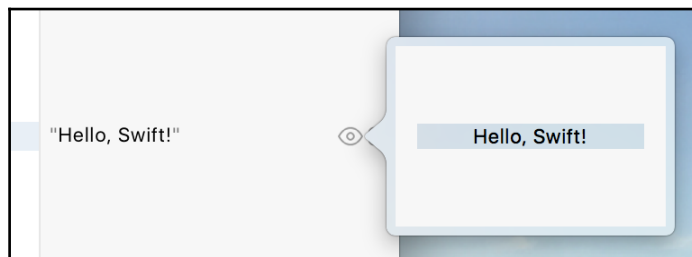
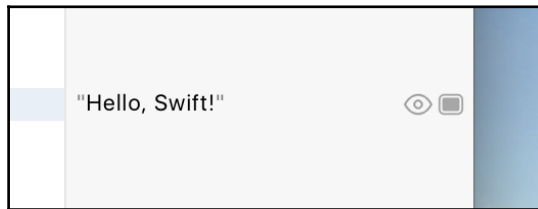
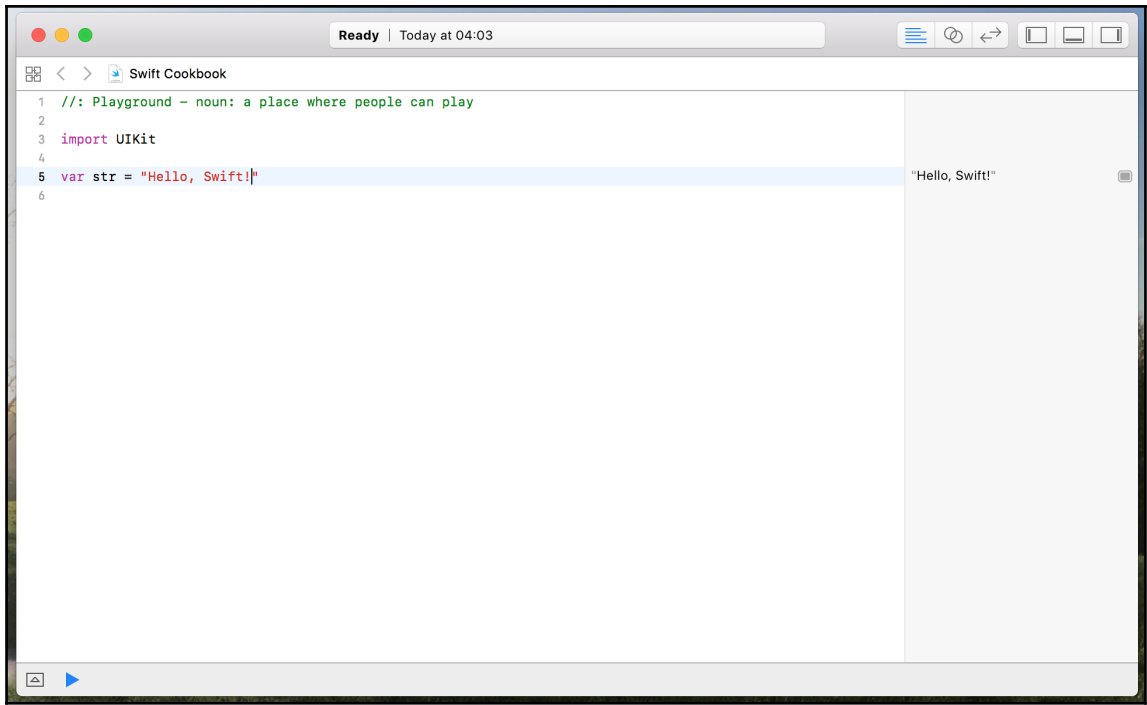
Featured Downloads	Build	Date	
Xcode 9 beta 2	Release Notes 9M137d	Jun 21, 2017	Download

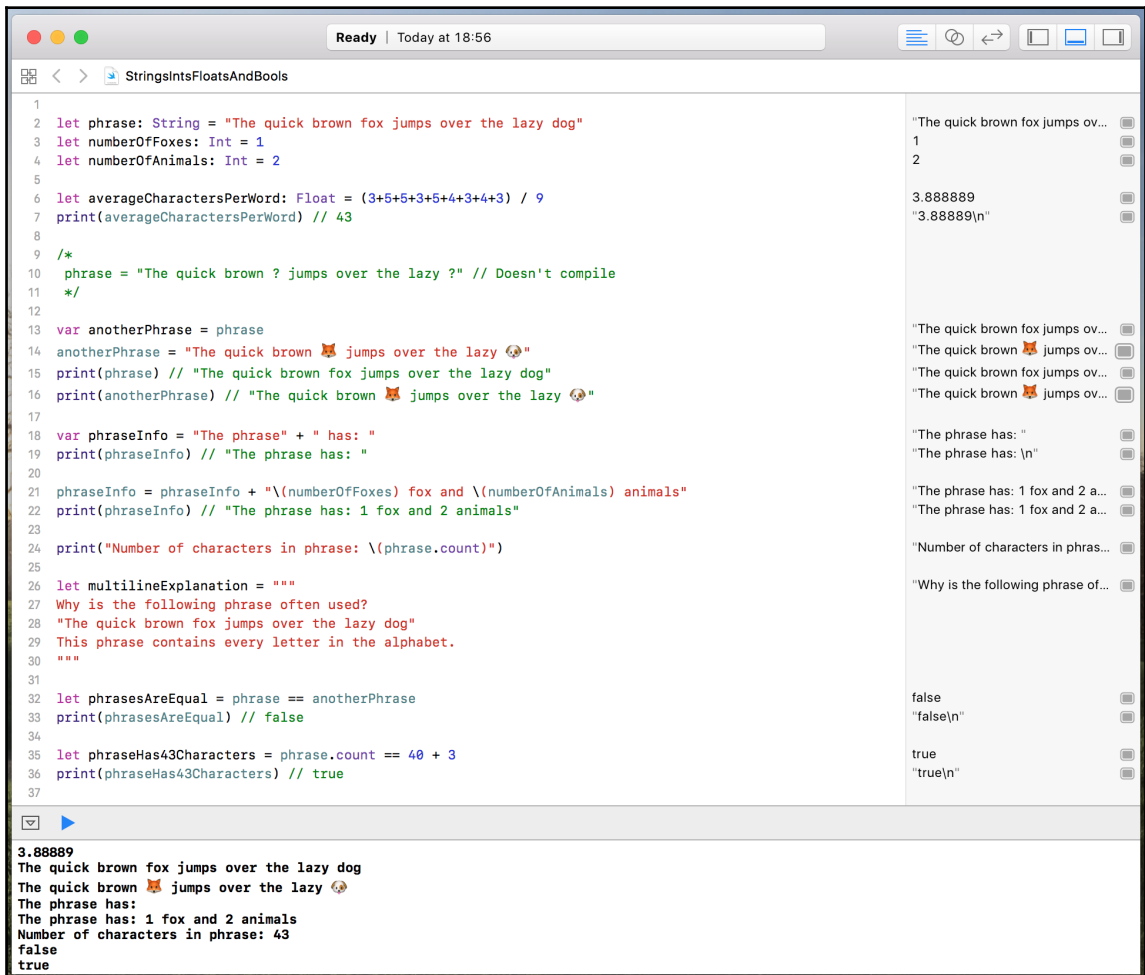
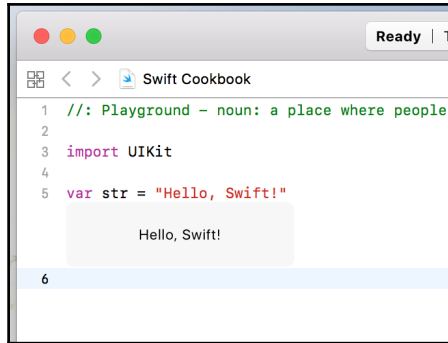
Includes the latest beta macOS, iOS, watchOS, and tvOS SDKs.



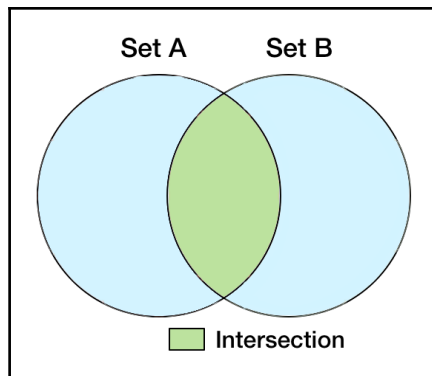
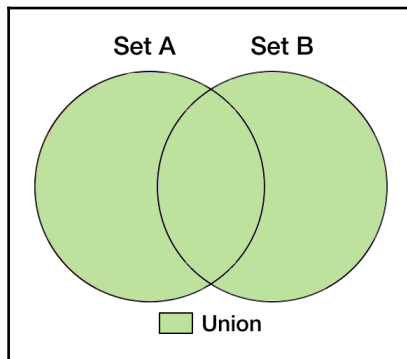
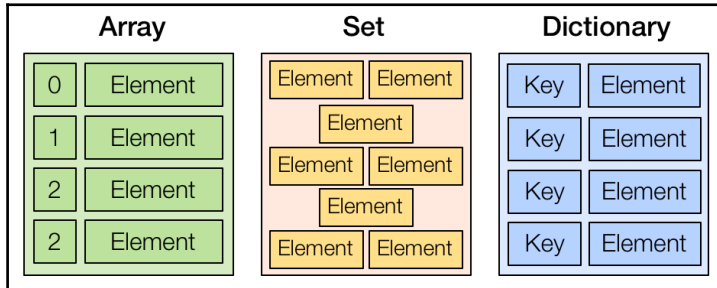


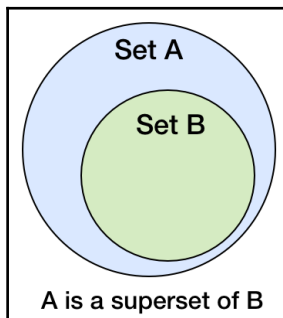
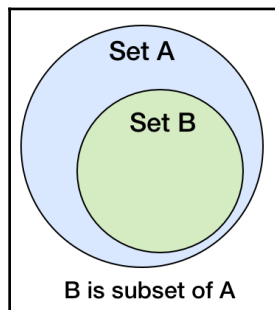
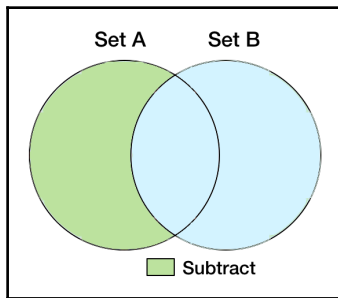
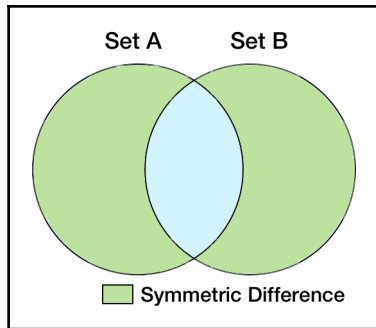


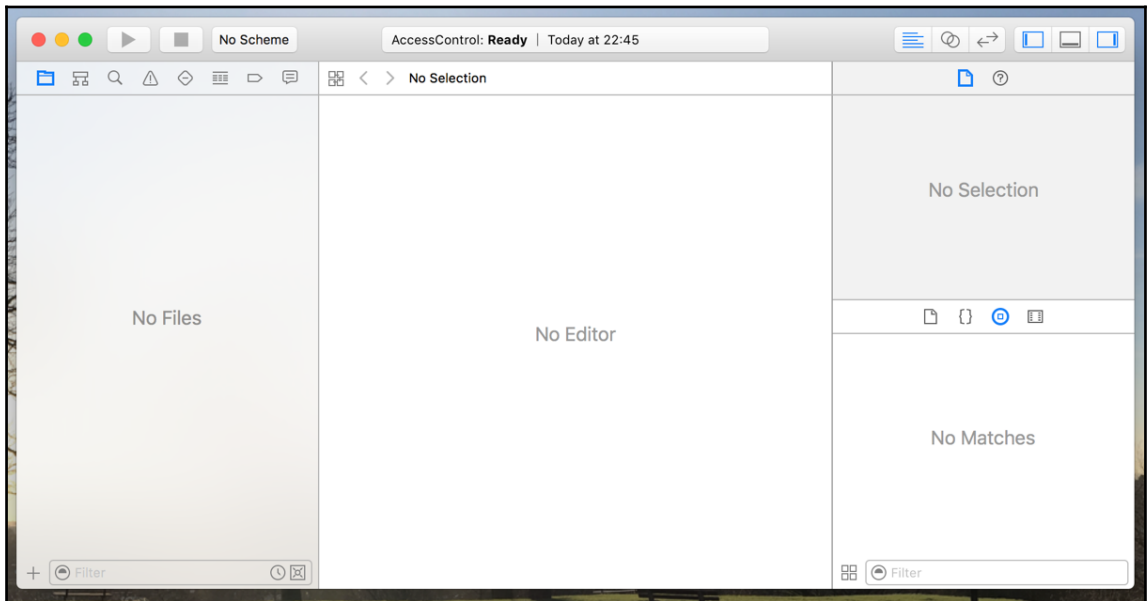
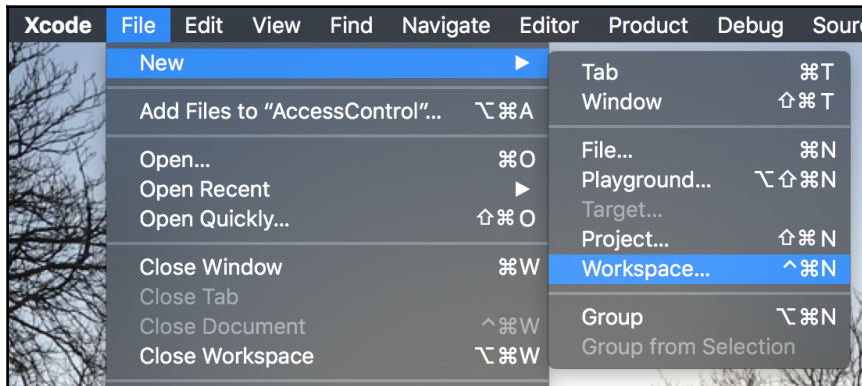
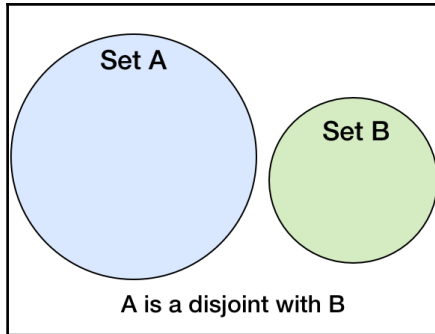


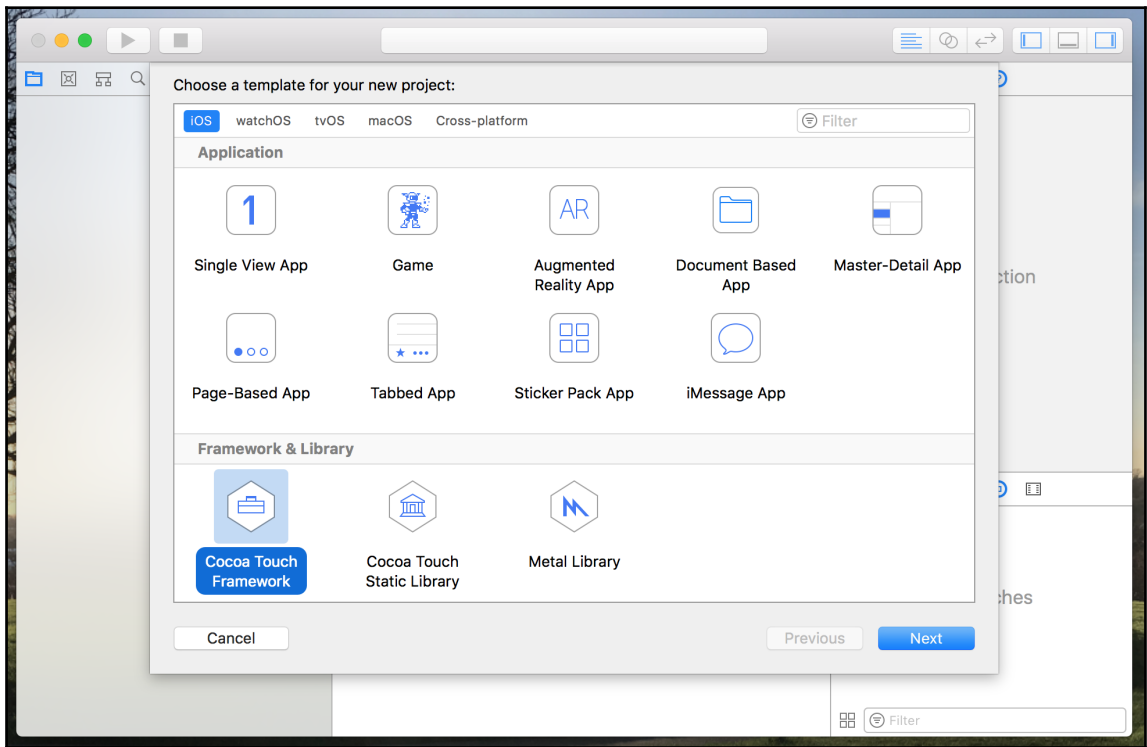
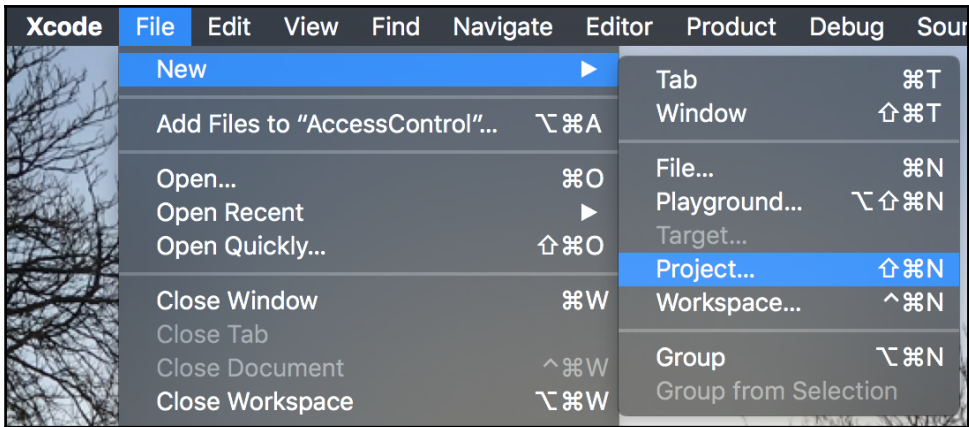


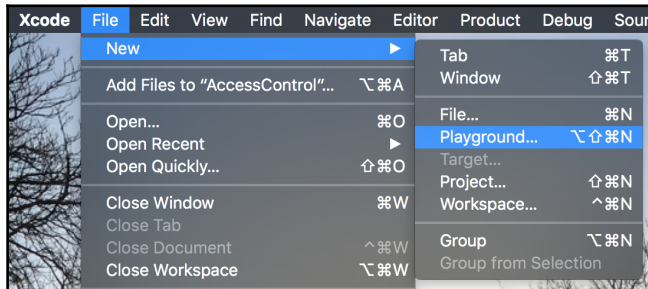
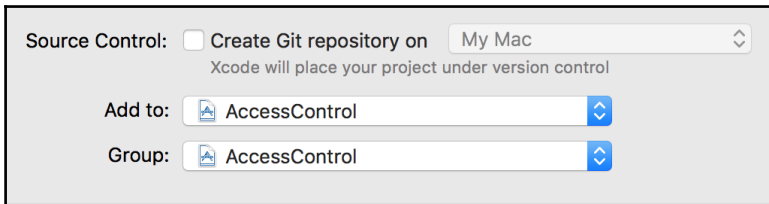
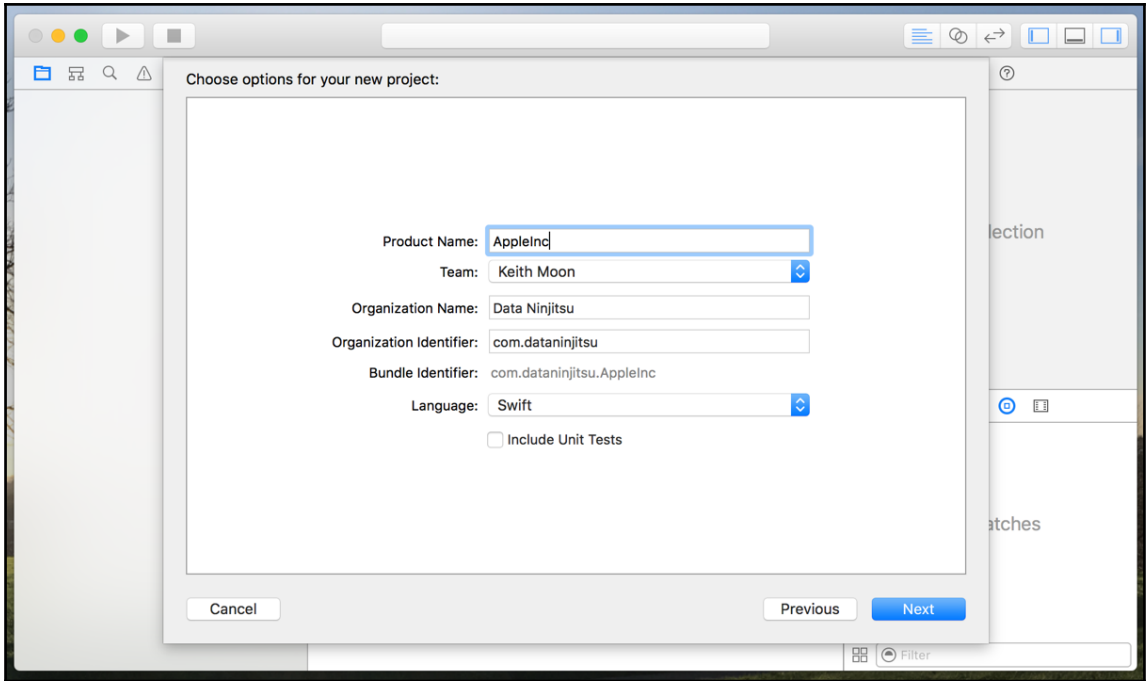
Chapter 2: Building on the Building Blocks

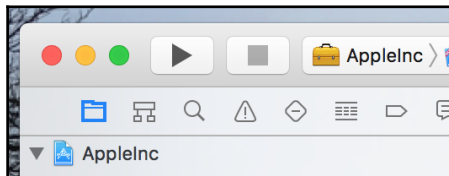
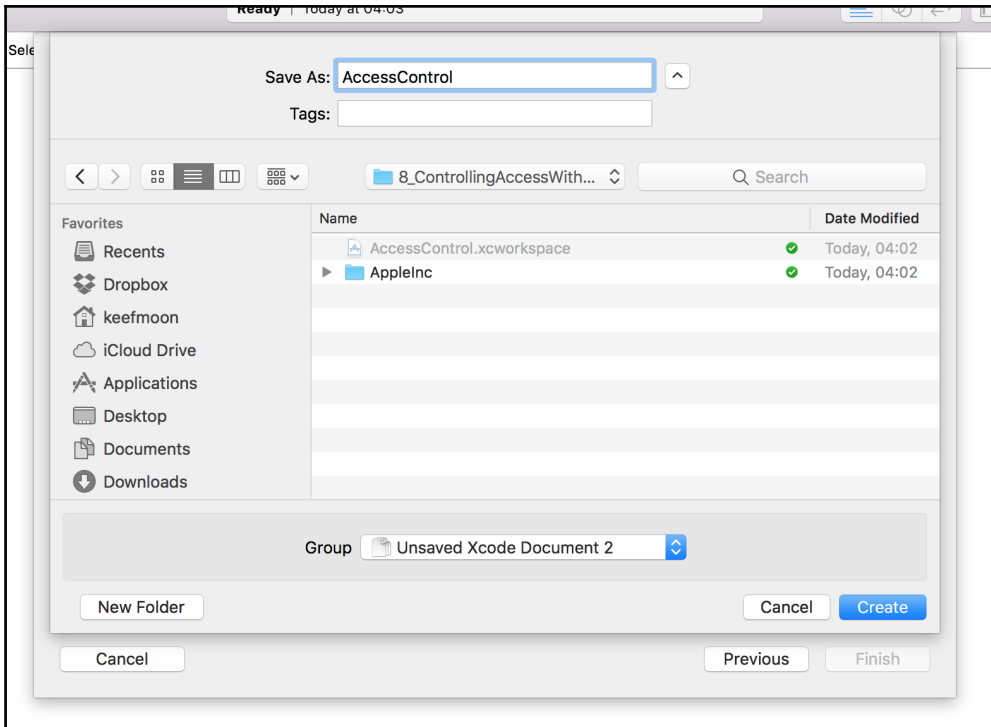




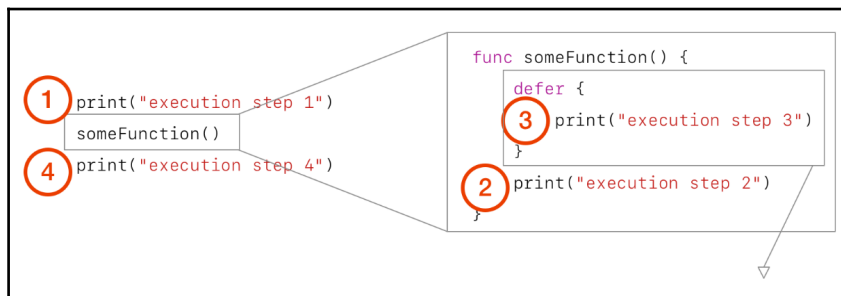
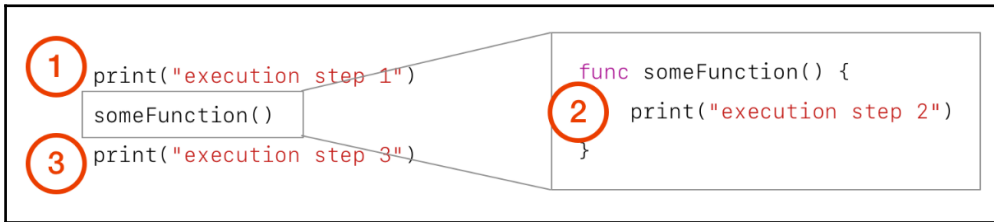




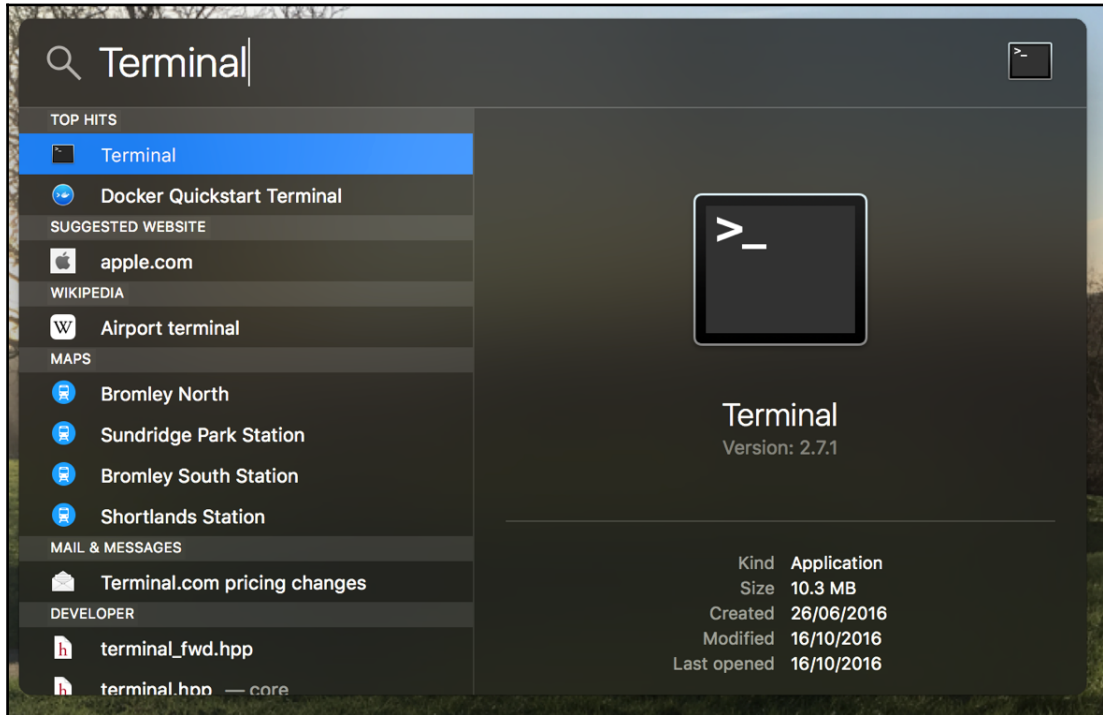


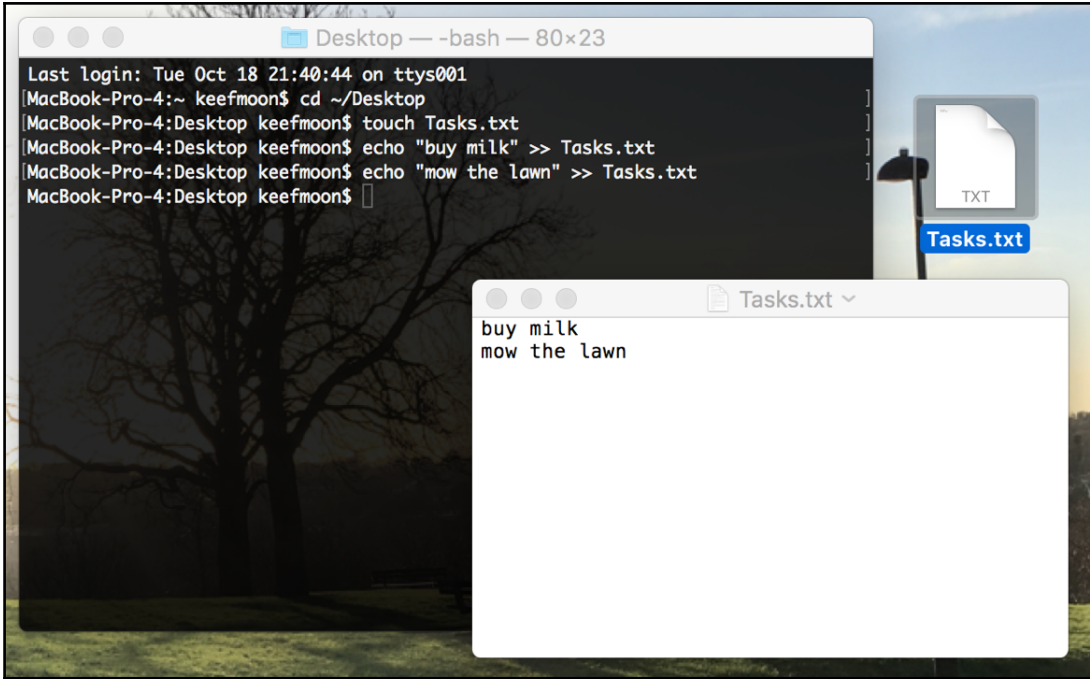


Chapter 3: Data Wrangling with Swift Control Flow



Chapter 4: Generics, Operators, and Nested Types





Chapter 5: Beyond the Standard Library



New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Token description

What's this token for?

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes](#).

- | | |
|---|--------------------------------------|
| <input checked="" type="checkbox"/> repo | Full control of private repositories |
| <input checked="" type="checkbox"/> repo:status | Access commit status |
| <input checked="" type="checkbox"/> repo_deployment | Access deployment status |
| <input checked="" type="checkbox"/> public_repo | Access public repositories |

Personal access tokens

[Generate new token](#)[Revoke all](#)

Tokens you have generated that can be used to access the [GitHub API](#).

Make sure to copy your new personal access token now. You won't be able to see it again!

✓ 2b  5e 

[Edit](#)[Delete](#)

Choose a template for your new playground:

IOS tvOS **macOS**

Filter

Playground



Blank



Game



Map



Single View

Cancel

Previous

Next

Choose a template for your new project:

ios watchOS tvOS macOS Cross-platform

Filter

Application



Single View App



Game



Augmented Reality App



Document Based App



Master-Detail App



Page-Based App



Tabbed App



Sticker Pack App



iMessage App

Framework & Library



Cocoa Touch Framework



Cocoa Touch Static Library



Metal Library

Cancel

Previous

Next

Choose options for your new project:

Product Name: CocoaTouchExample

Team: Add account...

Organization Name: Keith Moon

Organization Identifier: com.keefmoon

Bundle Identifier: com.keefmoon.CocoaTouchExample

Language: Swift

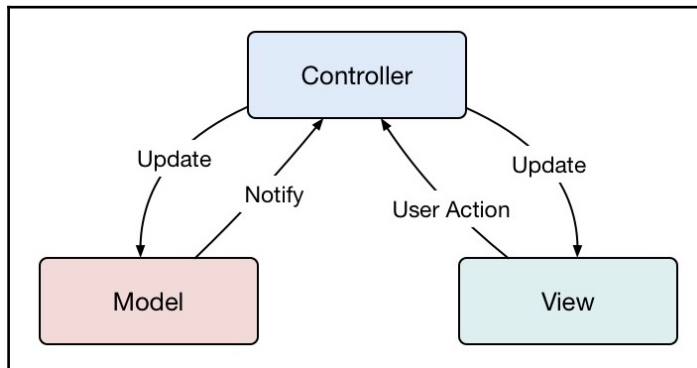
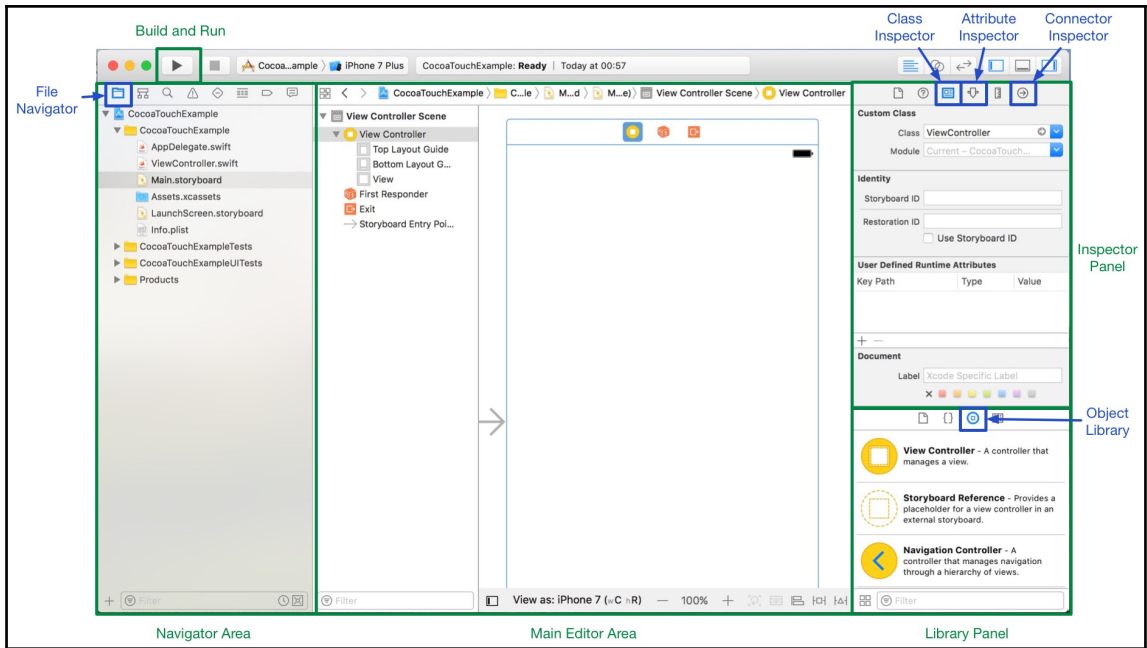
Devices: Universal

- Use Core Data
- Include Unit Tests
- Include UI Tests

Cancel

Previous

Next



Choose a template for your new file:

ios watchOS tvOS macOS

Filter

Source



Cocoa Touch Class



UI Test Case Class



Unit Test Case Class



Playground



Swift File



Objective-C File



Header File



C File



C++ File



Metal File

User Interface



Storyboard



View



Empty



Launch Screen

Cancel

Previous

Next

Choose options for your new file:


Class:


Subclass of:


Also create XIB file


Language:

📄 {} ⌕ 📄

 **Table View Controller** - A controller that manages a table view.

 **Table View** - Displays data in a list of plain, sectioned, or grouped rows.

 **Table View Cell** - Defines the attributes and behavior of cells (rows) in a table view.



File ? [Storyboard Icon] [Inspector Icon] [List Icon] [Refresh Icon]

Custom Class

Class **ReposTableViewControll** [Dropdown Arrow]

Module **Current - CocoaTouch...** [Dropdown Arrow]

Identity

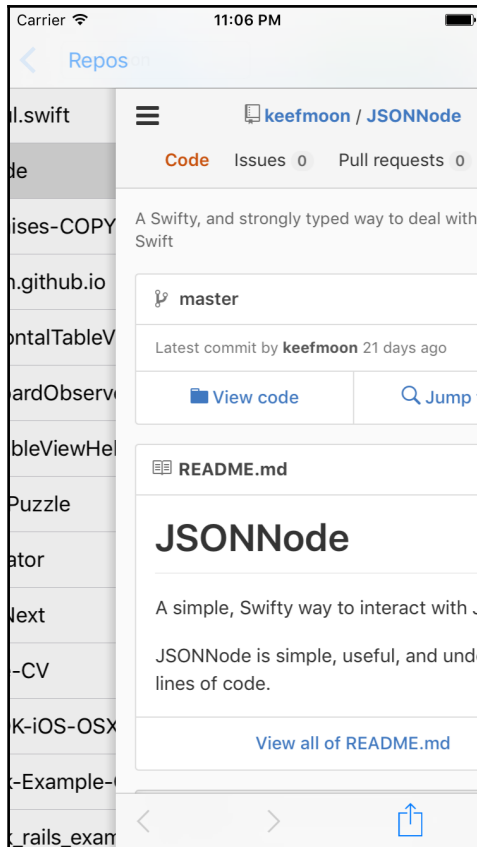
Storyboard ID

Restoration ID

Use Storyboard ID

User Defined Runtime Attributes

Key Path	Type	Value



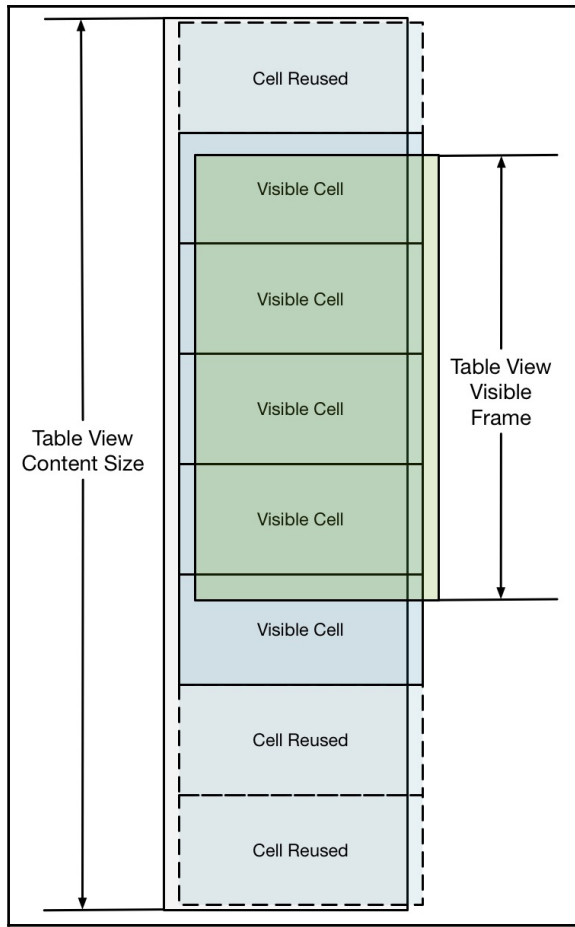
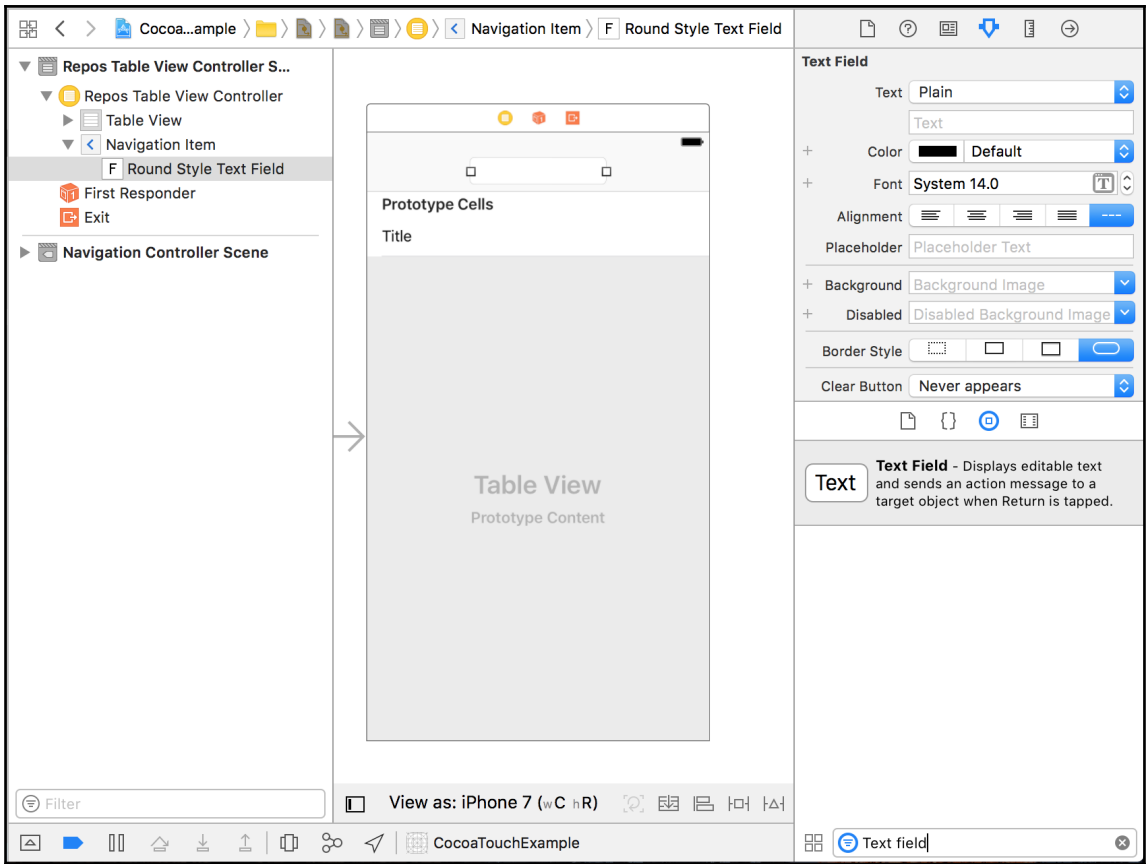
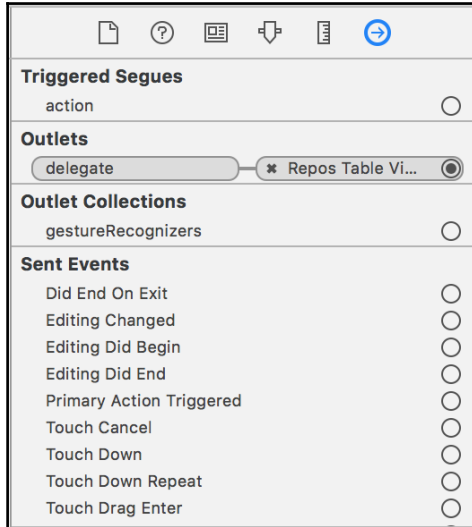
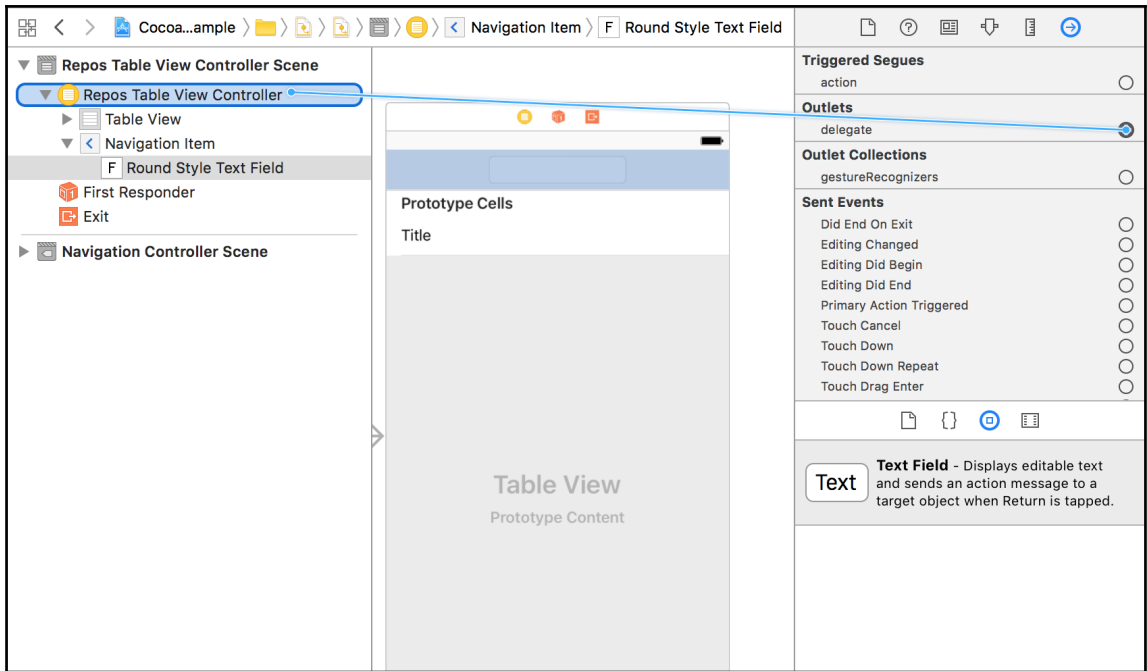


Table View Cell

Style	Basic
Image	Image
Identifier	RepoCell
Selection	Default
Accessory	None
Editing Acc.	None
Focus Style	Default

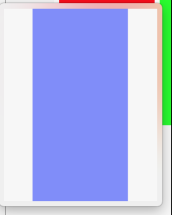




Chapter 6: Swift Playgrounds

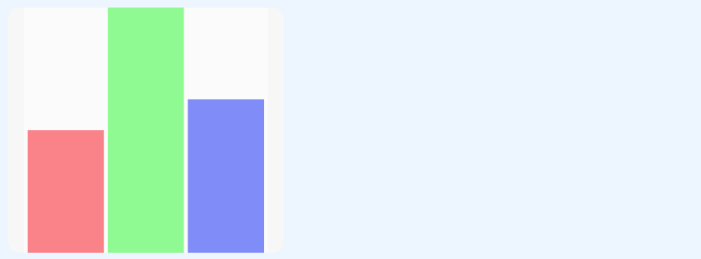
```
var xOrigin: CGFloat = interBarMargin
for bar in bars {
    let width = (frame.size.width - (interBarMargin * CGFloat(barCount+1))) / CGFloat(barCount)
    let height = barHeight(forValue: bar.value)
    let rect = CGRect(x: xOrigin, y: bounds.height - height, width: width, height: height)
    let view = BarView(frame: rect, color: bar.color.displayColor)
    barViews.append(view)
    addSubview(view)
}
xOrigin = view.frame.maxX + interBarMargin
self.barViews = barViews
```

5.0
(3 times)
(3 times)
(3 times)
(3 times)
(3 times)
(3 times)
__lldb_expr_25.BarChart

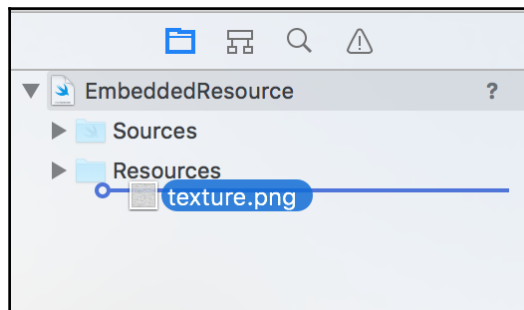
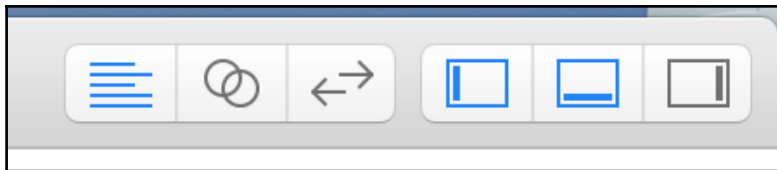
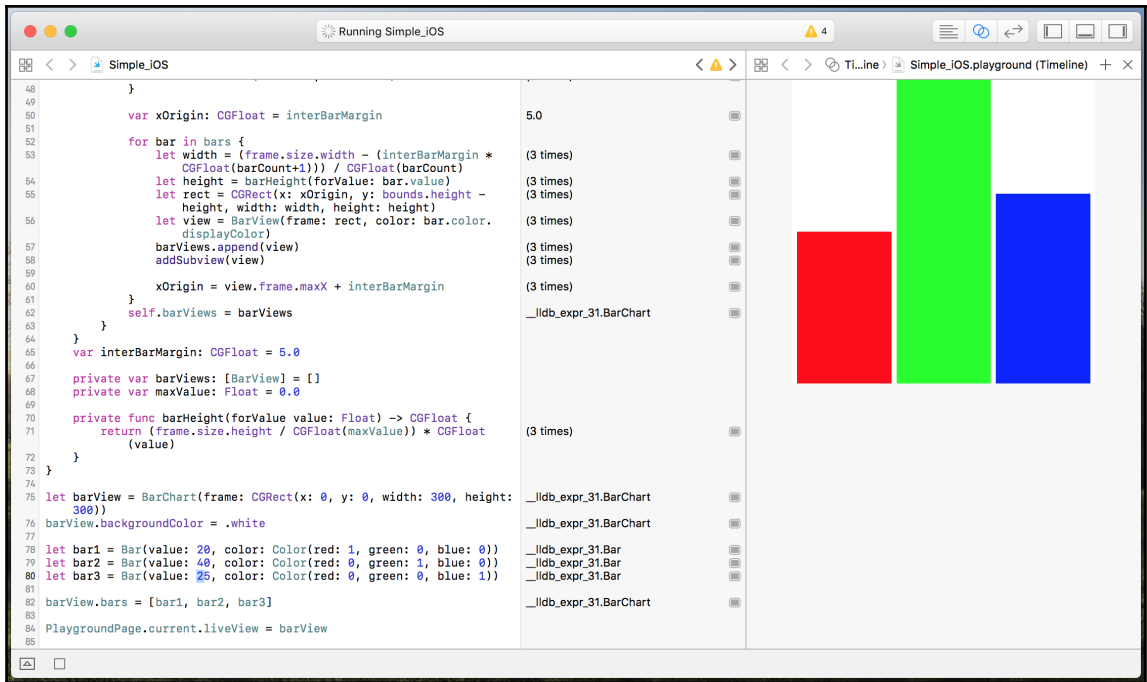


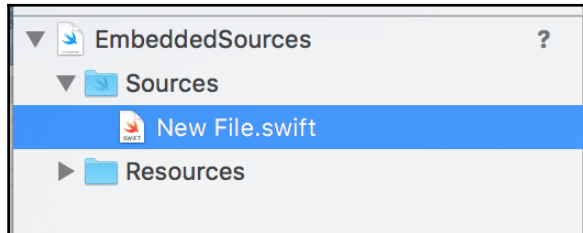
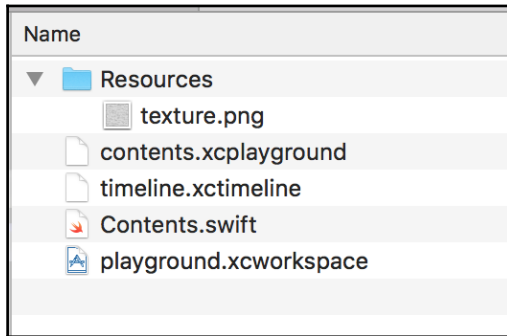
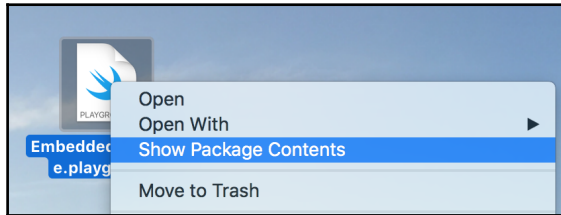
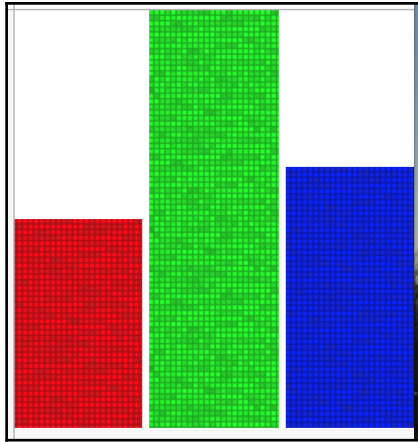
```
81
82 barView.bars = [bar1, bar2, bar3]
```

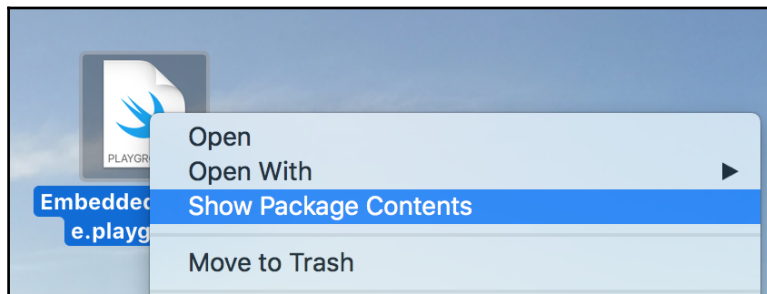
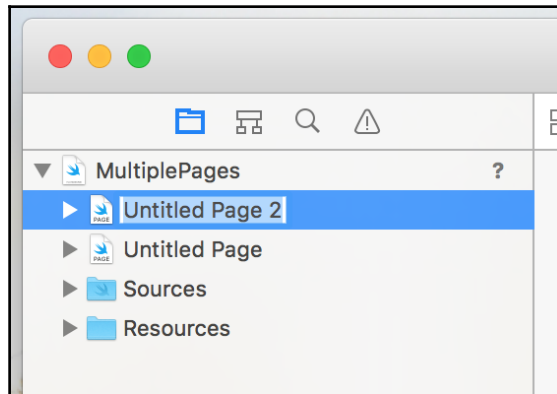
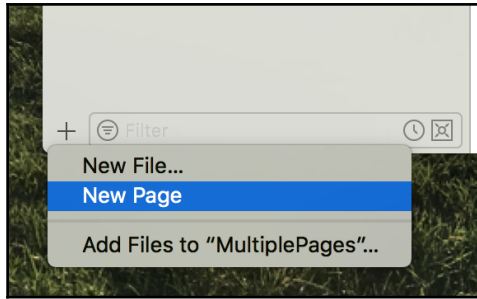
__lldb_expr_27.BarChart

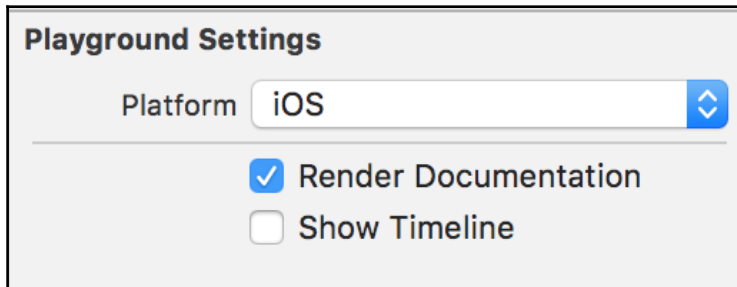
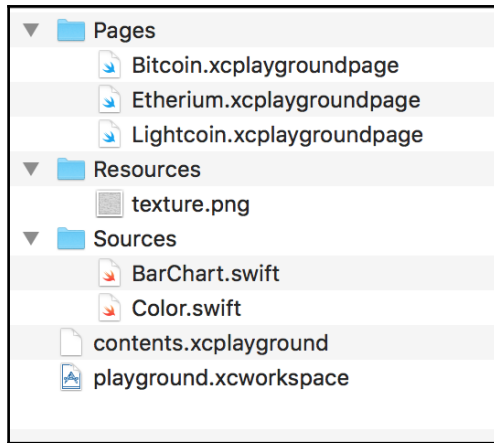


```
83
84 PlaygroundPage.current.liveView = barView
85
```









1

Crypto Currencies

Bitcoin

- Create Bar Chart
- Create Bars and add to chart
- Make Bar Chart the LiveView

10

```
11 import PlaygroundSupport
12 import UIKit
13
```

Usage

- Create Bar Chart
- Create Bars and add to chart
- Make Bar Chart the LiveView

21

```
22 let barView = BarChart(frame: CGRect(x: 0, y: 0, width: 300, height: 300))
23 barView.backgroundColor = .white
```

24

```
25 let green = Color(red: 0, green: 1, blue: 0, alpha: 1.0)
26
```

Note

Bitcoin Price (in USD)

- Jan 2017 - \$970.17
- Feb 2017 - \$960.05
- Mar 2017 - \$1203.02
- Apr 2017 - \$1076.90
- May 2017 - \$1390.24
- Jun 2017 - \$2414.11

38

```
39 let jan2017 = Bar(value: 970.17, color: green)
```

```
40 let feb2017 = Bar(value: 960.05, color: green)
```

```
41 let mar2017 = Bar(value: 1203.02, color: green)
```

```
42 let apr2017 = Bar(value: 1076.90, color: green)
```

```
43 let may2017 = Bar(value: 1390.24, color: green)
```

```
44 let jun2017 = Bar(value: 2414.11, color: green)
```

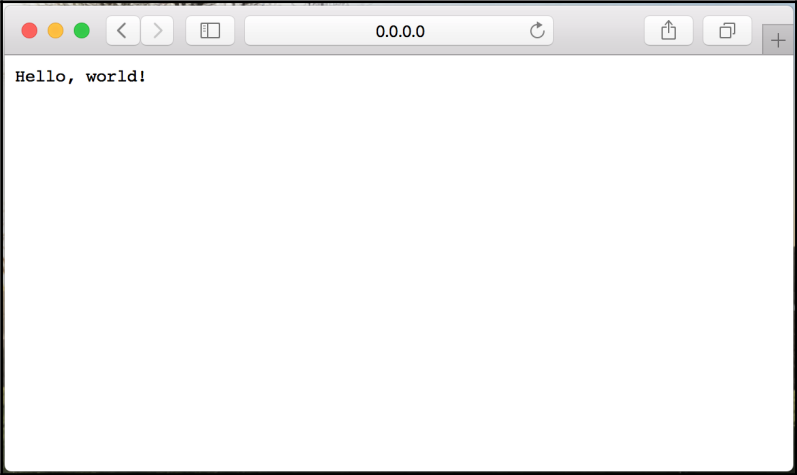
45






































```
46 barView.bars = [jan2017, feb2017, mar2017, apr2017, may2017, jun2017]
```

47

```
48 PlaygroundPage.current.liveView = barView
49
```

Chapter 7: Server-Side Swift



Target Membership	
<input type="checkbox"/>	 Bits
<input type="checkbox"/>	 Debugging
<input type="checkbox"/>	 libc
<input type="checkbox"/>	 Core
<input type="checkbox"/>	 Random
<input type="checkbox"/>	 Crypto
<input type="checkbox"/>	 Sockets
<input type="checkbox"/>	 Transport
<input type="checkbox"/>	 TLS
<input type="checkbox"/>	 CHTTP
<input type="checkbox"/>	 Cookies
<input type="checkbox"/>	 SMTP
<input type="checkbox"/>	 URI
<input type="checkbox"/>	 HTTP
<input type="checkbox"/>	 WebSockets
<input type="checkbox"/>	 Console
<input type="checkbox"/>	 Node
<input type="checkbox"/>	 PathIndexable
<input type="checkbox"/>	 JSON
<input type="checkbox"/>	 Branches
<input type="checkbox"/>	 Routing
<input type="checkbox"/>	 Multipart
<input type="checkbox"/>	 FormData
<input type="checkbox"/>	 BCrypt
<input type="checkbox"/>	 Testing
<input type="checkbox"/>	 Sessions
<input type="checkbox"/>	 Vapor
<input type="checkbox"/>	 Configs
<input type="checkbox"/>	 Cache
<input type="checkbox"/>	 CSQLite
<input type="checkbox"/>	 SQLite
<input type="checkbox"/>	 Fluent
<input type="checkbox"/>	 FluentTester
<input type="checkbox"/>	 FluentProvider
<input checked="" type="checkbox"/>	 App
<input type="checkbox"/>	 Run
<input type="checkbox"/>	 AppTests



Vapor

Creating modular server side software with Swift.

NYC <http://vapor.codes> github@qutheory.io

Repositories

People 25

Pinned repositories

vapor

A web framework and server for Swift that works on macOS and Ubuntu.

Swift ★ 8.9k 🍴 495

documentation

Documentation markdown for all Vapor packages.

CSS ★ 28 🍴 75

fluent

Swift models, relationships, and querying for NoSQL and SQL databases.

Swift ★ 630 🍴 64

leaf

An extensible templating language built for Vapor.

Swift ★ 72 🍴 7

engine

HTTP, WebSockets, Streams, SMTP, etc. Core transport layer used in <https://github.com/vapor/vapor>

Swift ★ 67 🍴 21

todo-example

An example implementation for <http://todobackend.com>

Swift ★ 20 🍴 6

Type: All

Language: All

12 results for repositories matching provider

Clear filter

Top languages

Swift CSS C Shell

6 contributors

MIT

Create new file

Upload files

Find file

Clone or download

Clone with HTTPS

Use SSH

Use Git or checkout with SVN using the web URL.

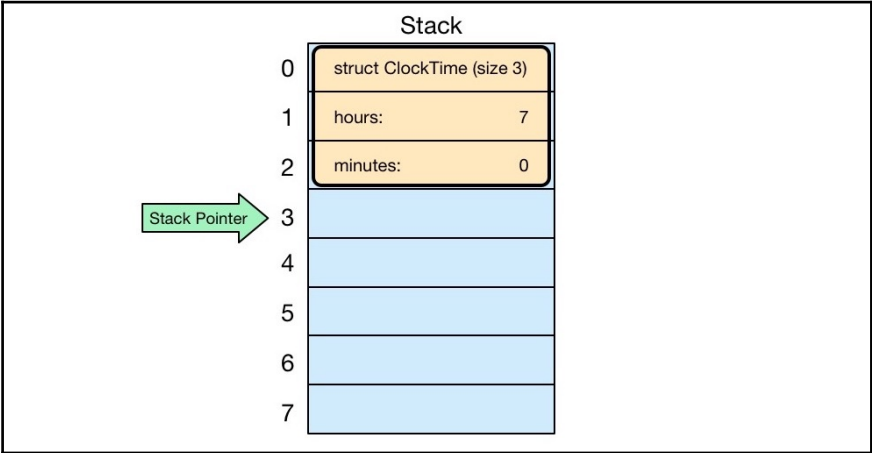
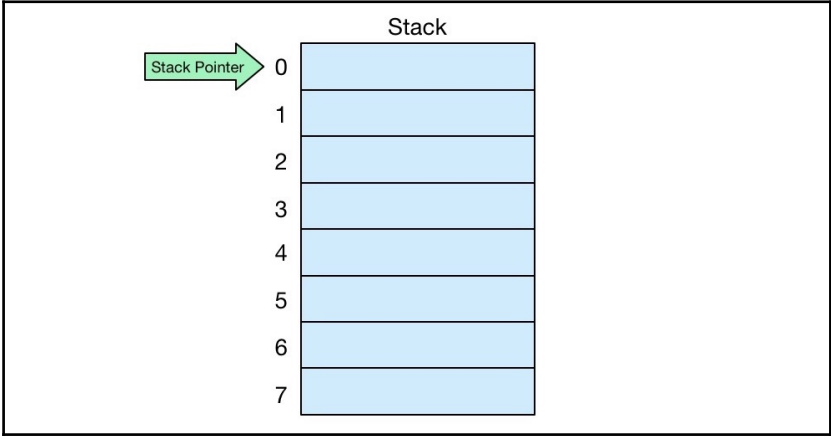
<https://github.com/vapor/postgresql-pr>

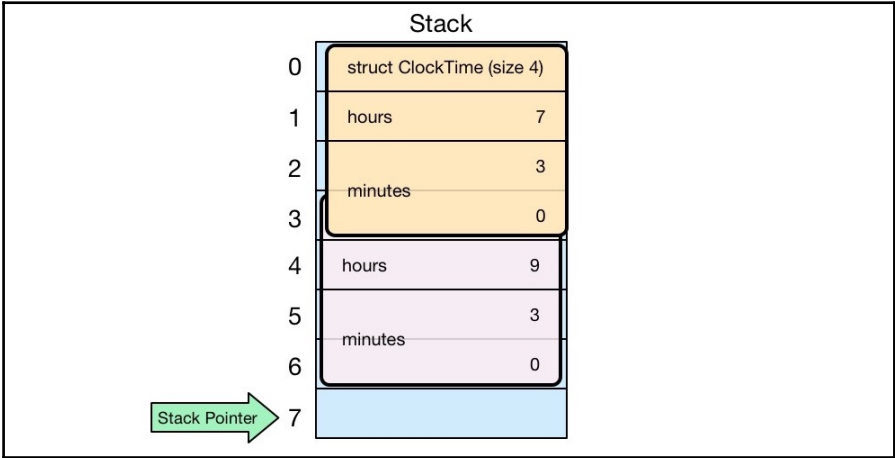
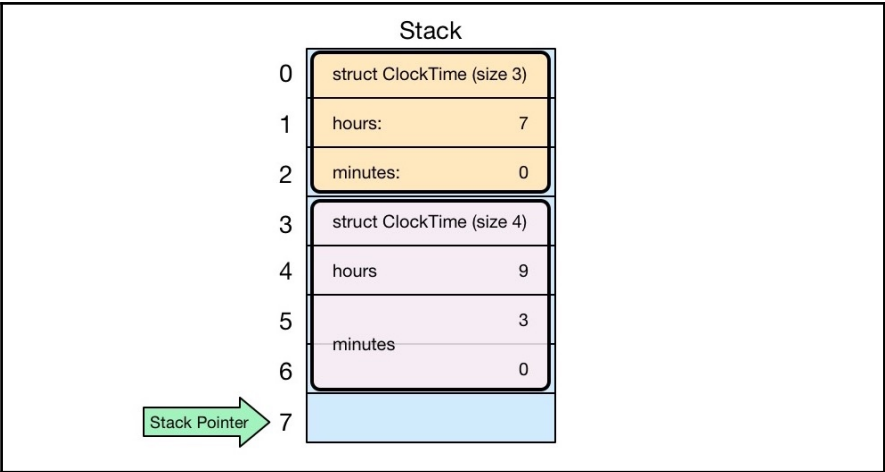
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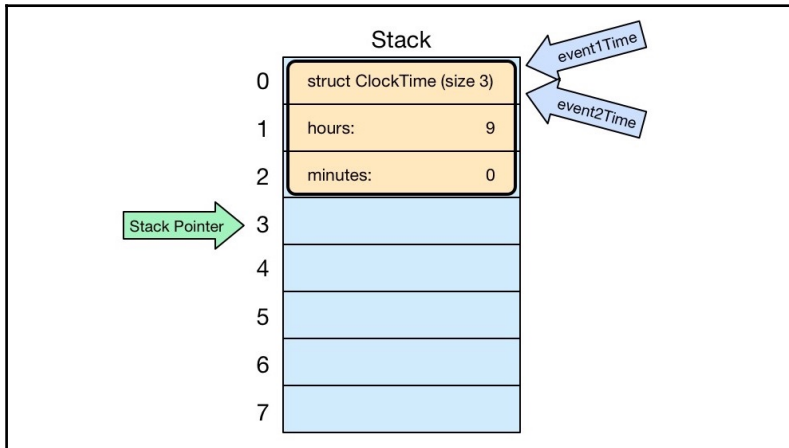
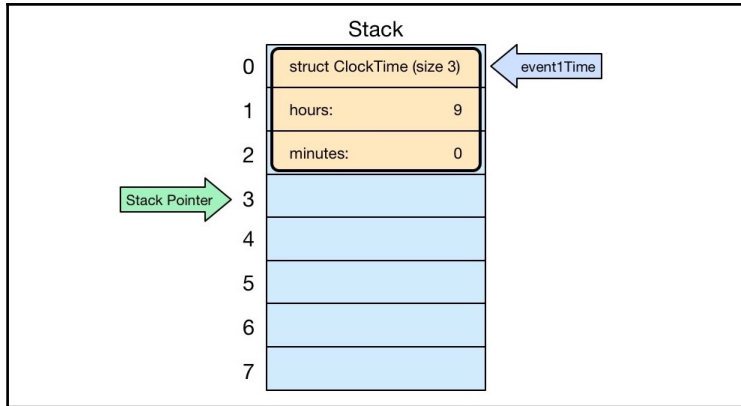
Download ZIP

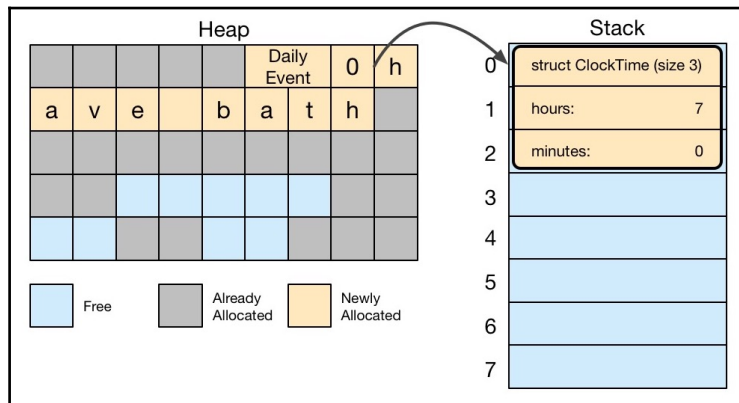
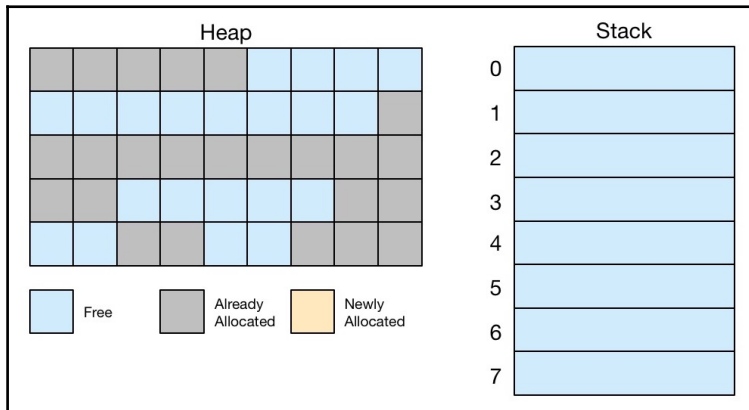
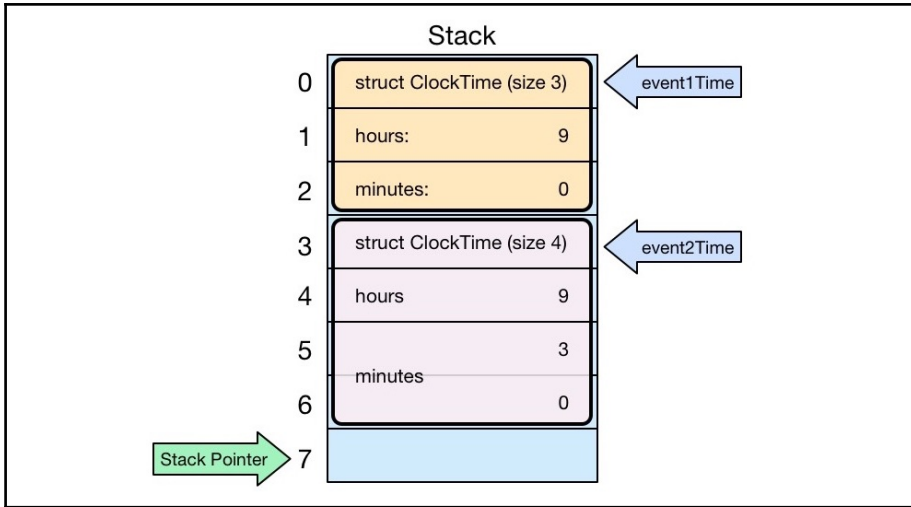
5 months ago

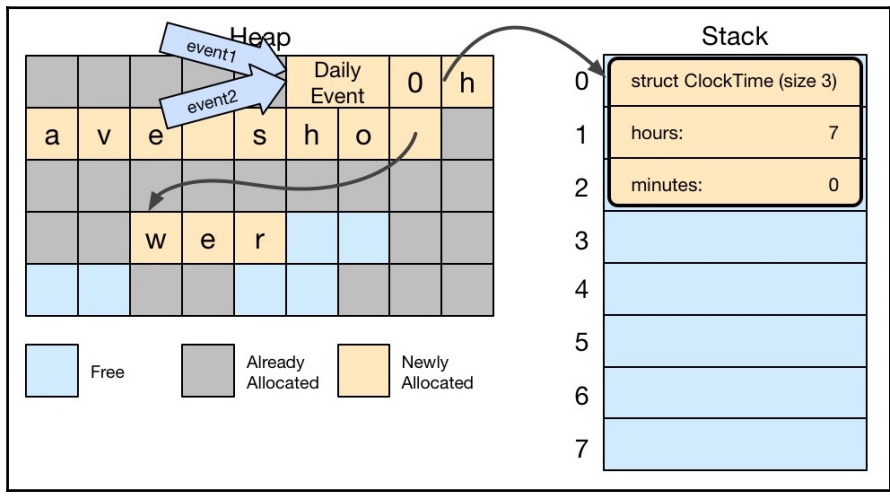
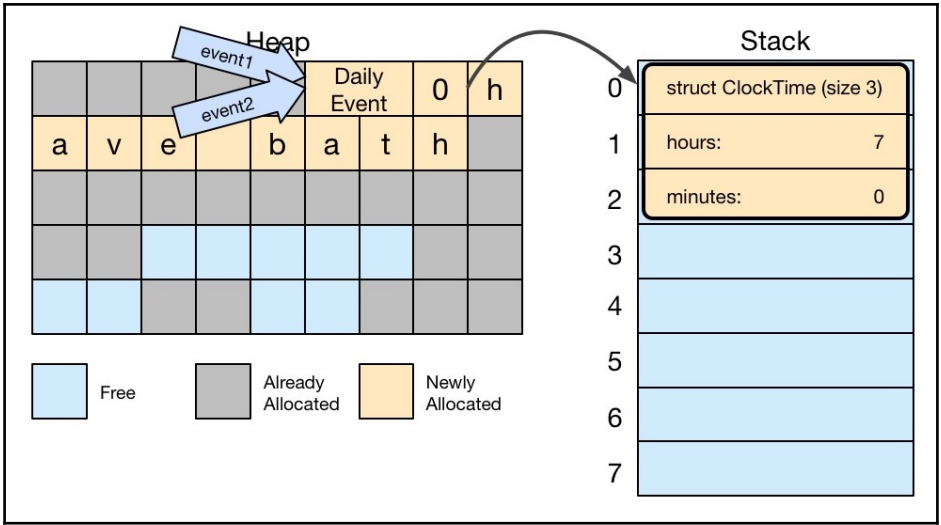
Chapter 8: Performance and Responsiveness in Swift

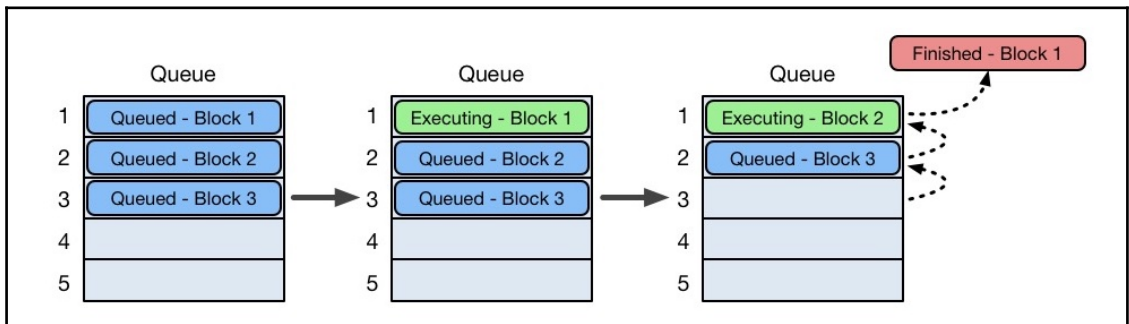
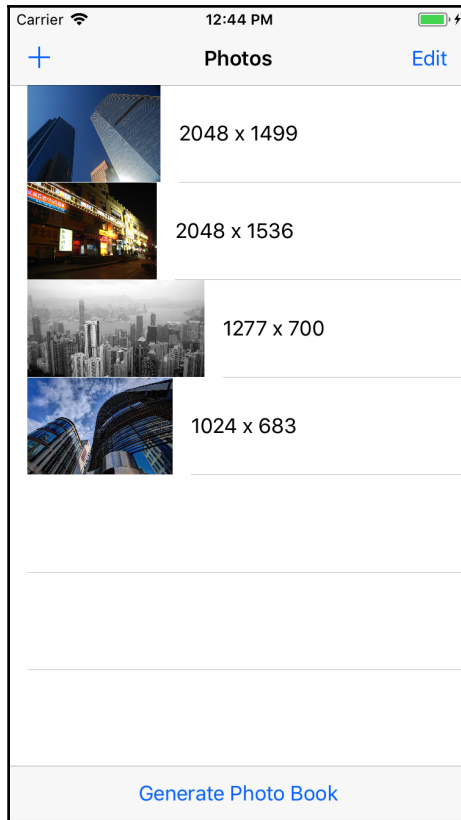


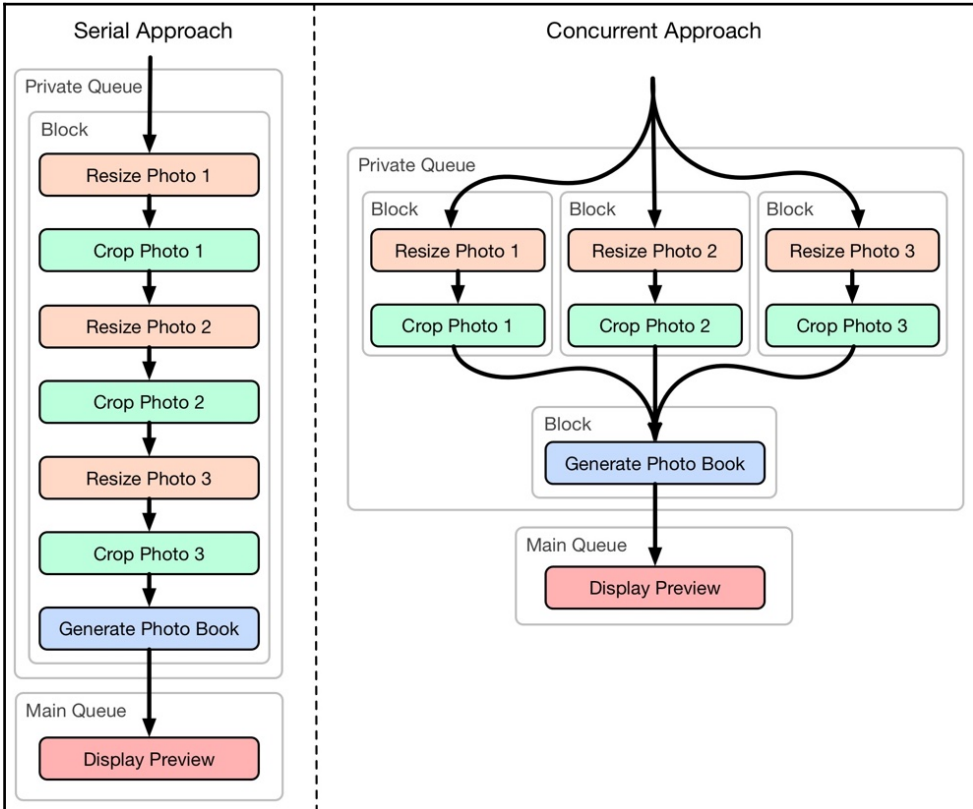
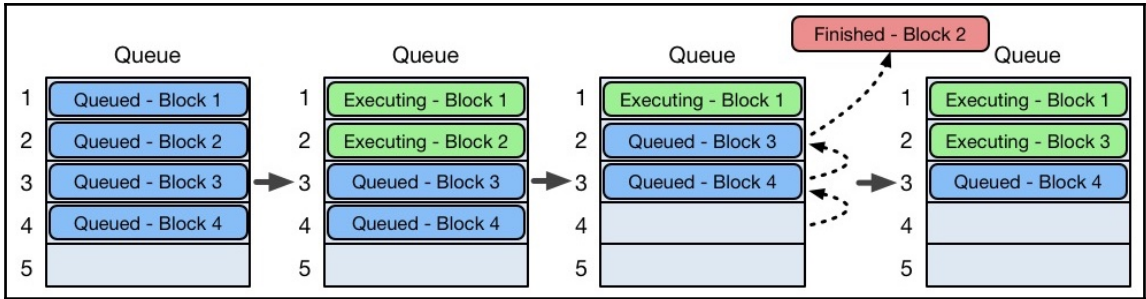












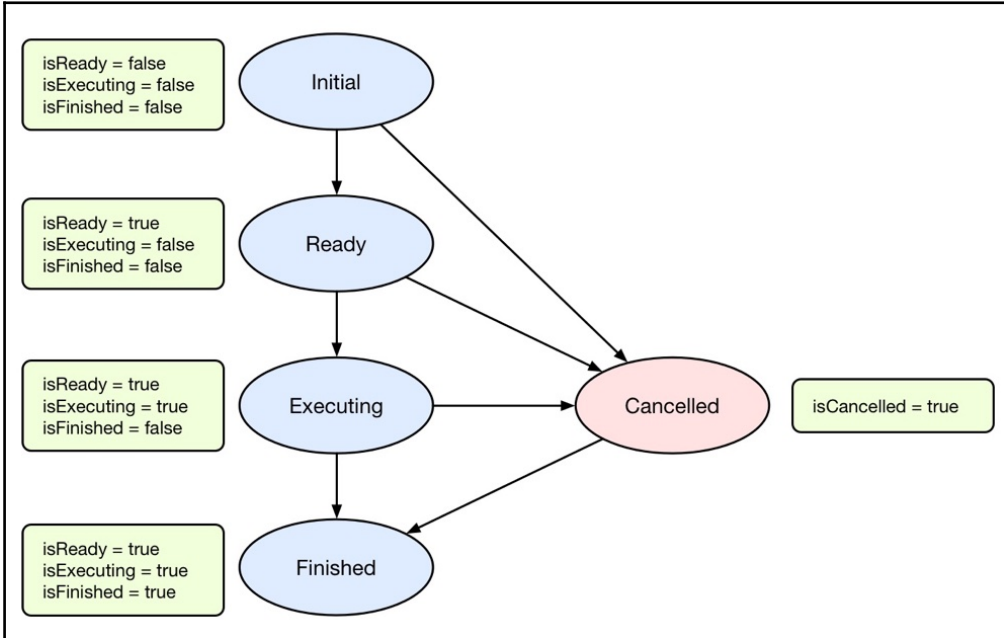
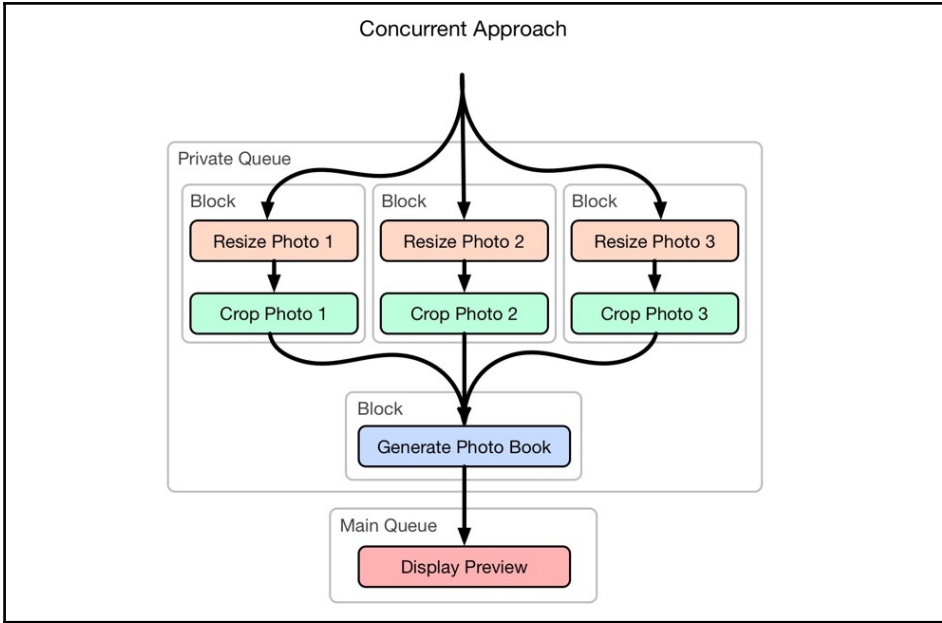


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