

SwiftUI

UserJSON
Hello World
Pokedex

Jiann-Ming Wu

The image shows a video player displaying a MATLAB demonstration. The video content includes:

- Editor Window:** A script named `demo_table_segmentation.m` with the following code:

```
3 - clc
4 - close all
5
6 - demo_table_se
7 - problem = sel
8 - demo_table_se
9 - pause(3)
10 - end
11
```
- Command Window:** Shows the execution progress:

```
save_str =
    "save mat/temp
preparing patches.
calculate contrast
detect object bou
```
- Figure Window:** Titled "Figure 3", it displays a photograph of a red and black Spider-Man figurine on a wooden surface. The window title bar includes standard OS controls and a toolbar with icons for zooming and navigation.
- Background Windows:** A "thresholded contrast values" window is visible behind the figure, and a search bar labeled "Search Documents" is at the top right.

The video player interface at the bottom shows a progress bar at 1:40 / 2:44 and various playback controls.






Xcode











Welcome to Xcode

Version 12.4 (12D4e)

-  **Create a new Xcode project**
Create an app for iPhone, iPad, Mac, Apple Watch, or Apple TV.
 -  **Clone an existing project**
Start working on something from a Git repository.
 -  **Open a project or file**
Open an existing project or file on your Mac.
- Show this window when Xcode launches

New a project

-  **userJSON**
~/Desktop/swift_2019_2020
-  **PokedexSwiftUI**
~/Desktop/swift_2019_2020
-  **Pokemon_test**
~/Desktop/swift_2019_2020
-  **WebViewSwiftUI**
~/Desktop/swift_2019_2020
-  **MyPlaygroundTest**
~/Desktop/Jiann-Ming Wu/2021-II SWIFT
-  **GuidedTour-2**
...ng Wu/2021-II SWIFT/excercise playground
-  **MyPlayground_morden**
...ng Wu/2021-II SWIFT/excercise playground
-  **MyPlayground**
...ng Wu/2021-II SWIFT/excercise playground

選擇
APP

Choose a template for your new project:

Multiplatform **iOS** macOS watchOS tvOS Other

Filter

Application



App



Document App



Game



Augmented
Reality App



Sticker Pack App



iMessage App

Framework & Library



Framework



Static Library



Metal Library

Cancel

Previous

Next

No Selection

下一步

輸入
APP名稱

Product Name: FirstAPP

Team: Jiann-Ming Wu

Organization Identifier: ItLab AMNDHU

Bundle Identifier: ItLab-AMNDHU.FirstAPP

Interface: SwiftUI

Life Cycle: SwiftUI App

Language: Swift

- Use Core Data
- Host in CloudKit
- Include Tests

輸入團
隊名稱

選擇
SWIFTUI

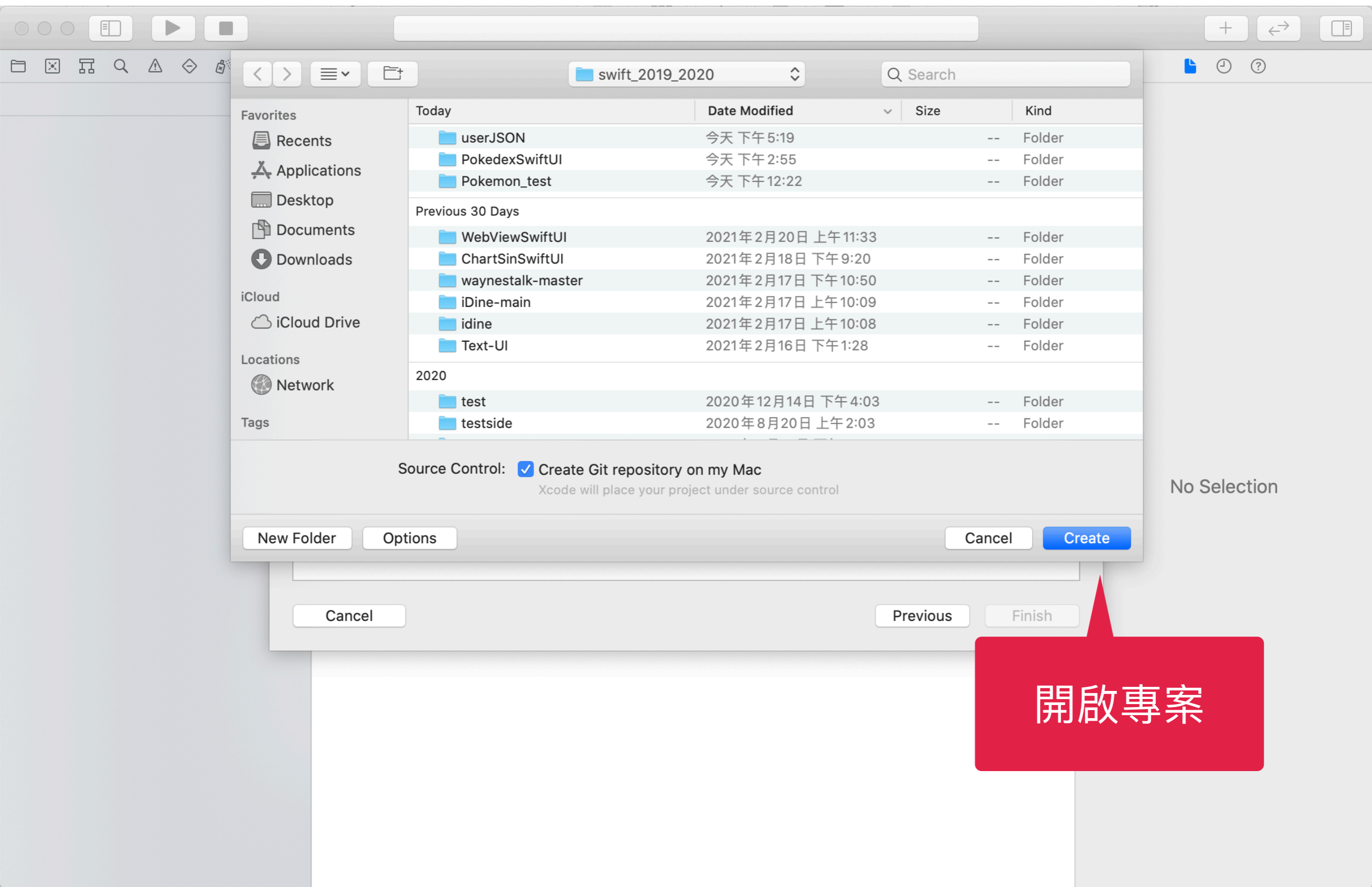
Cancel

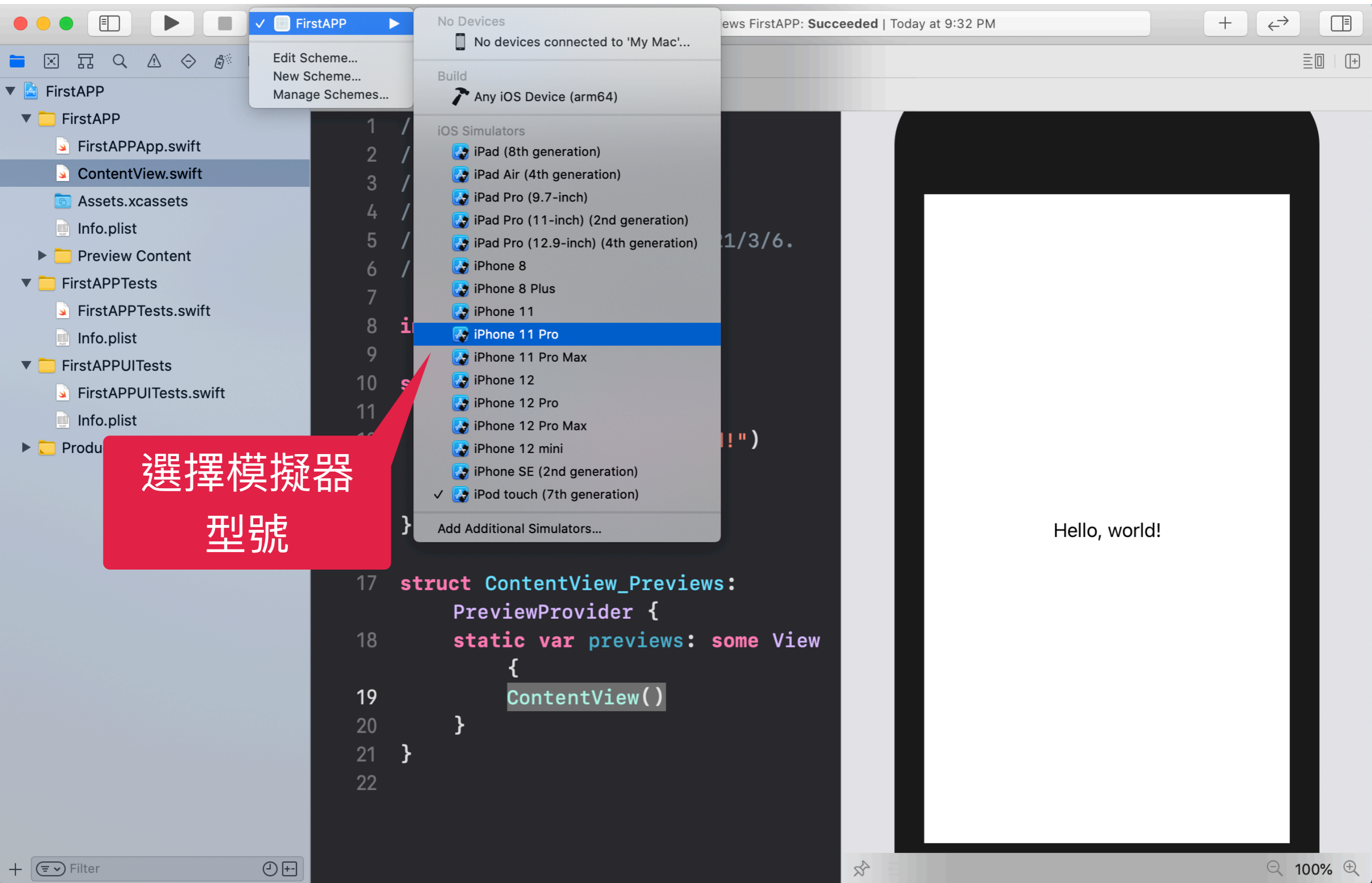
Previous

Next

下一步

No Selection





選擇模擬器
型號

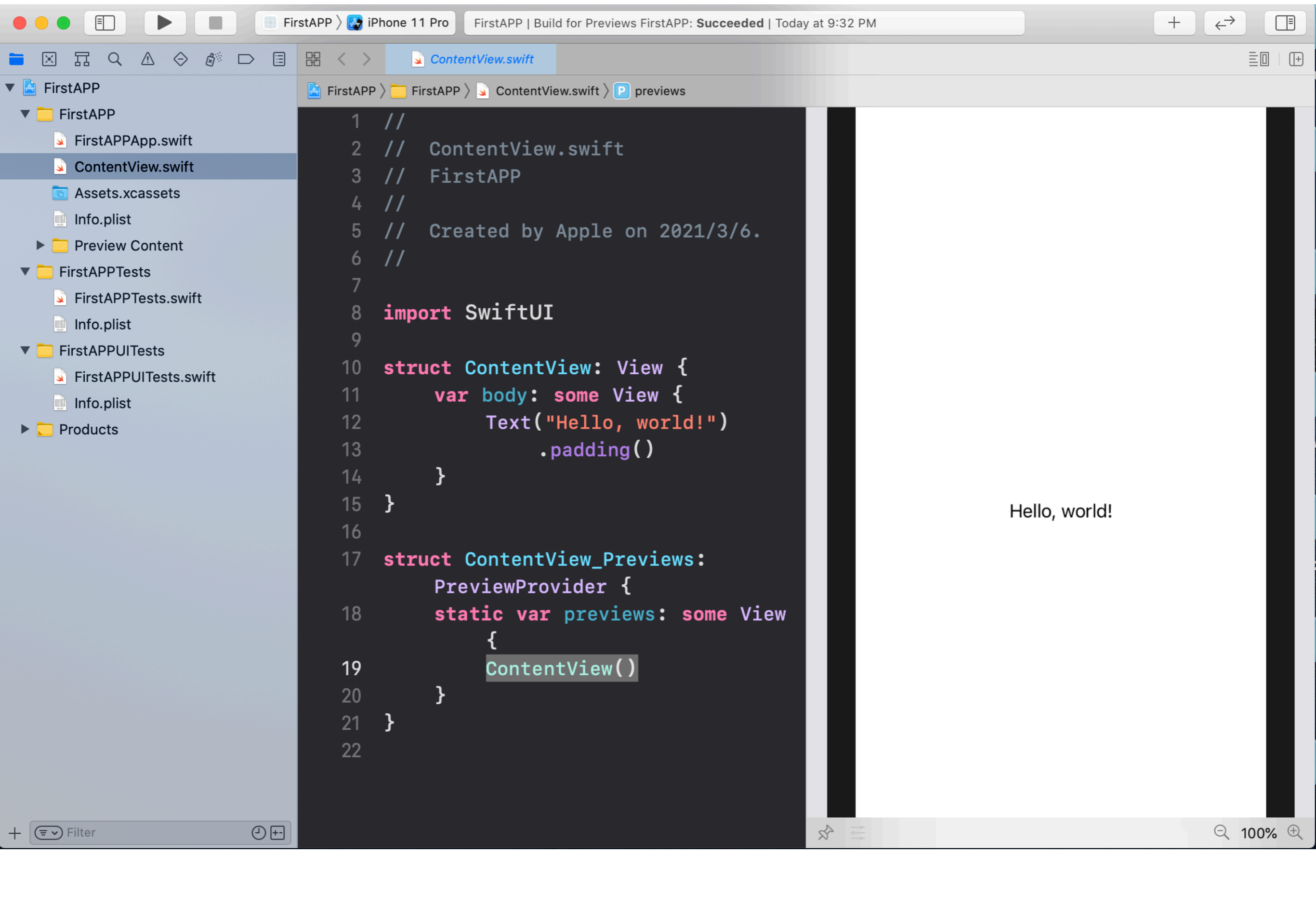
1 /
2 /
3 /
4 /
5 /
6 /
7 /
8 i
9
10 s
11
12
13
14
15
16
17
18
19
20
21
22

```
17 struct ContentView_Previews:  
    PreviewProvider {  
18     static var previews: some View  
        {  
19         ContentView()  
20     }  
21 }  
22
```

1/3/6.

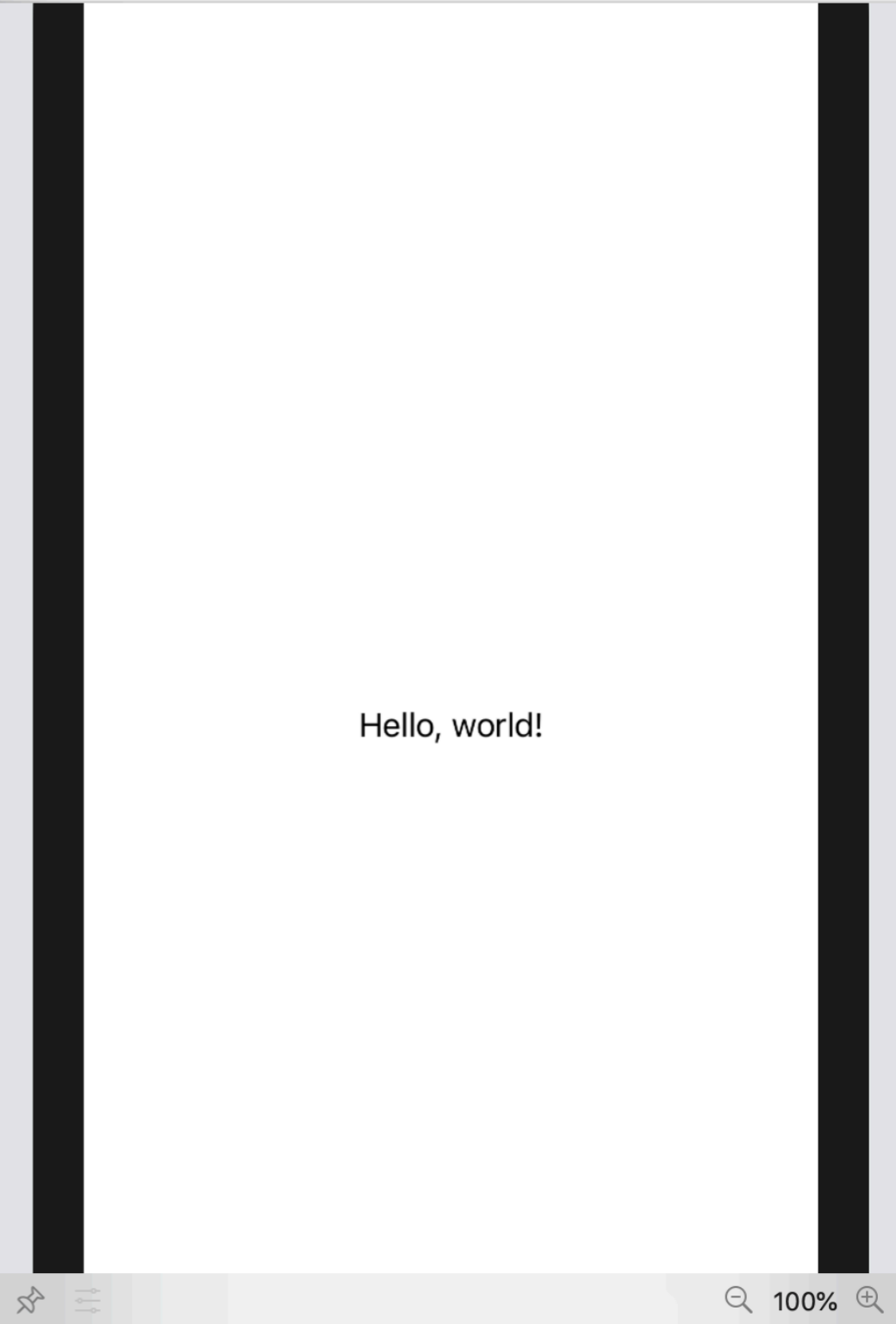
!")

Hello, world!



- FirstAPP
 - FirstAPP
 - FirstAPPApp.swift
 - ContentView.swift
 - Assets.xcassets
 - Info.plist
 - Preview Content
 - FirstAPPTests
 - FirstAPPTests.swift
 - Info.plist
 - FirstAPPUITests
 - FirstAPPUITests.swift
 - Info.plist
 - Products

```
1 //
2 // ContentView.swift
3 // FirstAPP
4 //
5 // Created by Apple on 2021/3/6.
6 //
7
8 import SwiftUI
9
10 struct ContentView: View {
11     var body: some View {
12         Text("Hello, world!")
13             .padding()
14     }
15 }
16
17 struct ContentView_Previews:
18     PreviewProvider {
19     static var previews: some View
20     {
21         ContentView()
22     }
23 }
```



執行專案

The image shows the Xcode IDE with a Swift file named `ContentView.swift` open. The code defines a SwiftUI `ContentView` struct and a `ContentView_Previews` struct for previews. The preview shows the text "Hello, world!" on a white background. A red callout bubble points to the play button in the top toolbar, and another red callout bubble points to the preview result on the simulator.

```
1 //
2 // ContentView.swift
3 // FirstAPP
4 //
5 // Created by Apple on 2021/3/6.
6 //
7
8 import SwiftUI
9
10 struct ContentView: View {
11     var body: some View {
12         Text("Hello, world!")
13             .padding()
14     }
15 }
16
17 struct ContentView_Previews:
18     PreviewProvider {
19     static var previews: some View
20     {
21         ContentView()
22     }
23 }
```

執行結果

MVVM

Model

View

View Model

Model

- New
- Add Files to "FirstAPP"...
- Open...
- Open Recent
- Open Quickly...
- Close Tab
- Close "ContentView.swift"
- Close Editor
- Close Window
- Close Project
- Save
- Duplicate...
- Revert to Saved...
- Unlock...
- Export...
- Show in Finder
- Open in Tab
- Open in New Window
- Open with External Editor
- Swift Packages
- Save As Workspace...
- Project Settings...
- Page Setup...
- Print...

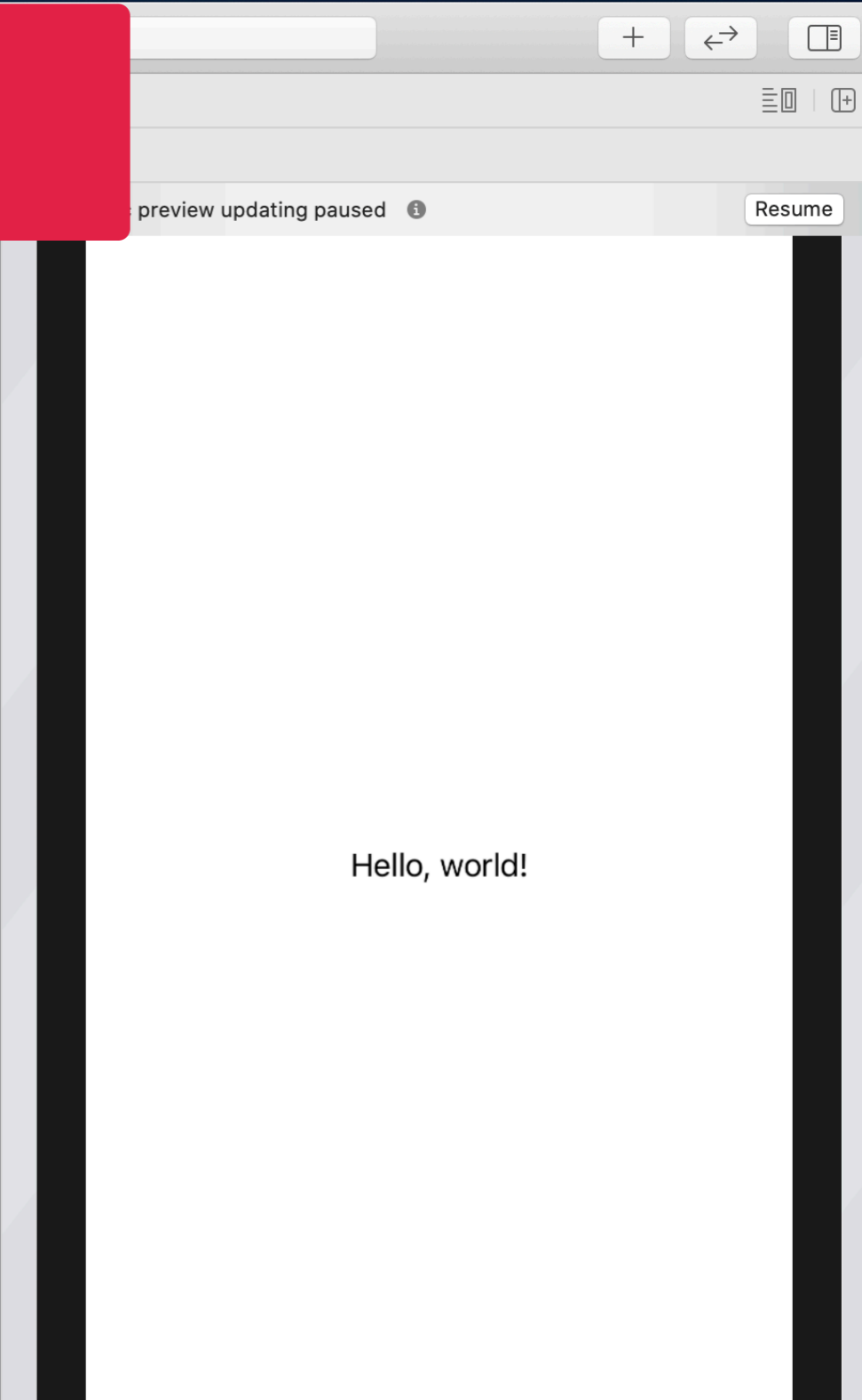
- Editor
- Editor Below
- Window Tab
- Window
- File...
- Target...
- Playground...
- Project...
- Swift Package...
- Workspace...
- Group
- Group without Folder
- Group from Selection

新增檔案

```

8 import SwiftUI
9
10 struct ContentView: View {
11     var body: some View {
12         Text("Hello, world!")
13             .padding()
14     }
15 }
16
17 struct ContentView_Previews:
18     PreviewProvider {
19     static var previews: some View
20     {
21         ContentView()
22     }
23 }

```



選擇swift檔案

Choose a template for your new source file

iOS macOS watchOS

Filter

Source



Swift File



Cocoa Touch Class



UI Test Case Class



Unit Test Case Class



Objective-C File



Header File



IIG File



C File



C++ File



Metal File

User Interface



SwiftUI View



Storyboard



View



Empty



Launch Screen

Cancel

Previous

Next

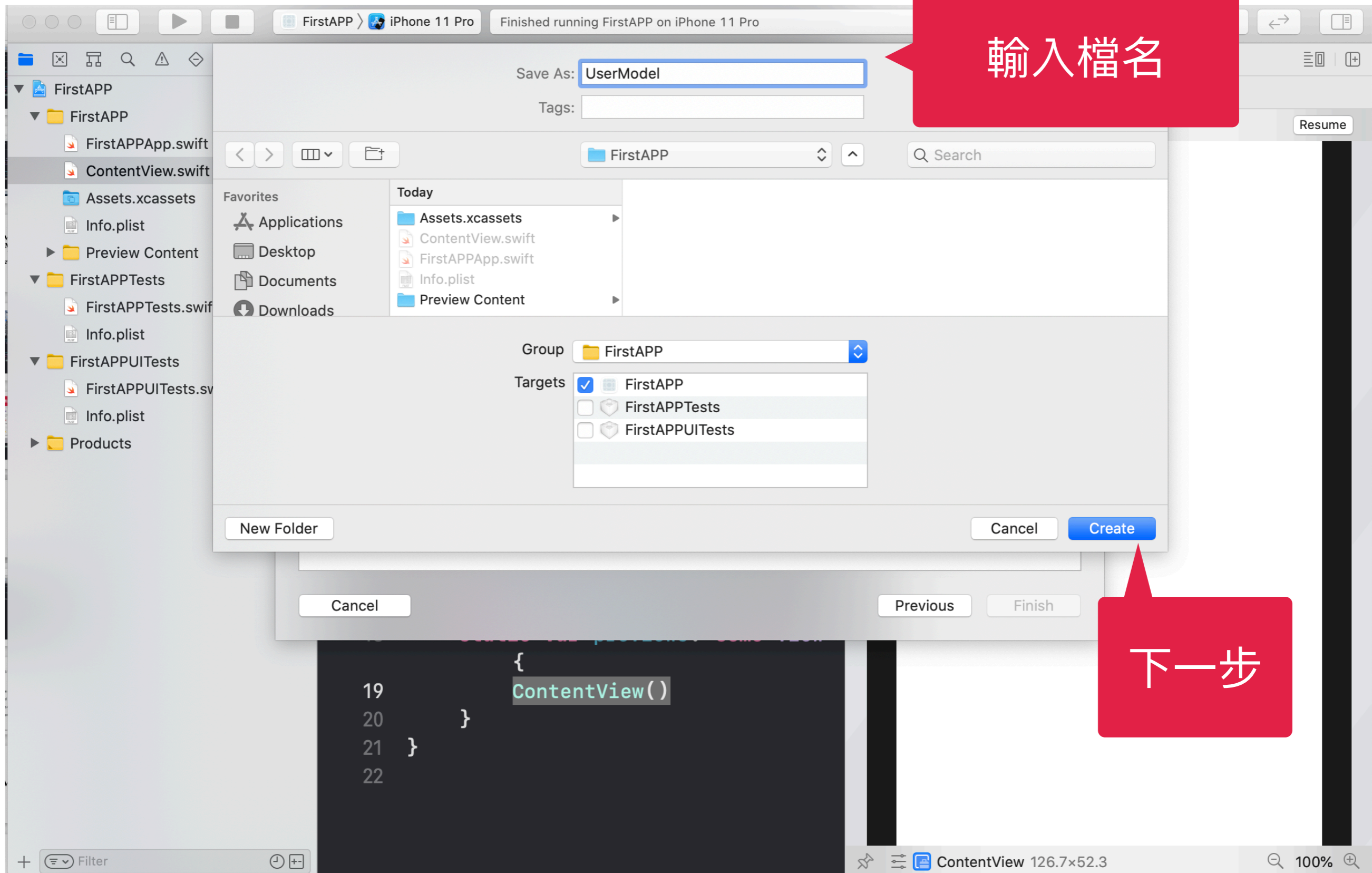
```
19     {  
20         ContentView()  
21     }  
22 }
```

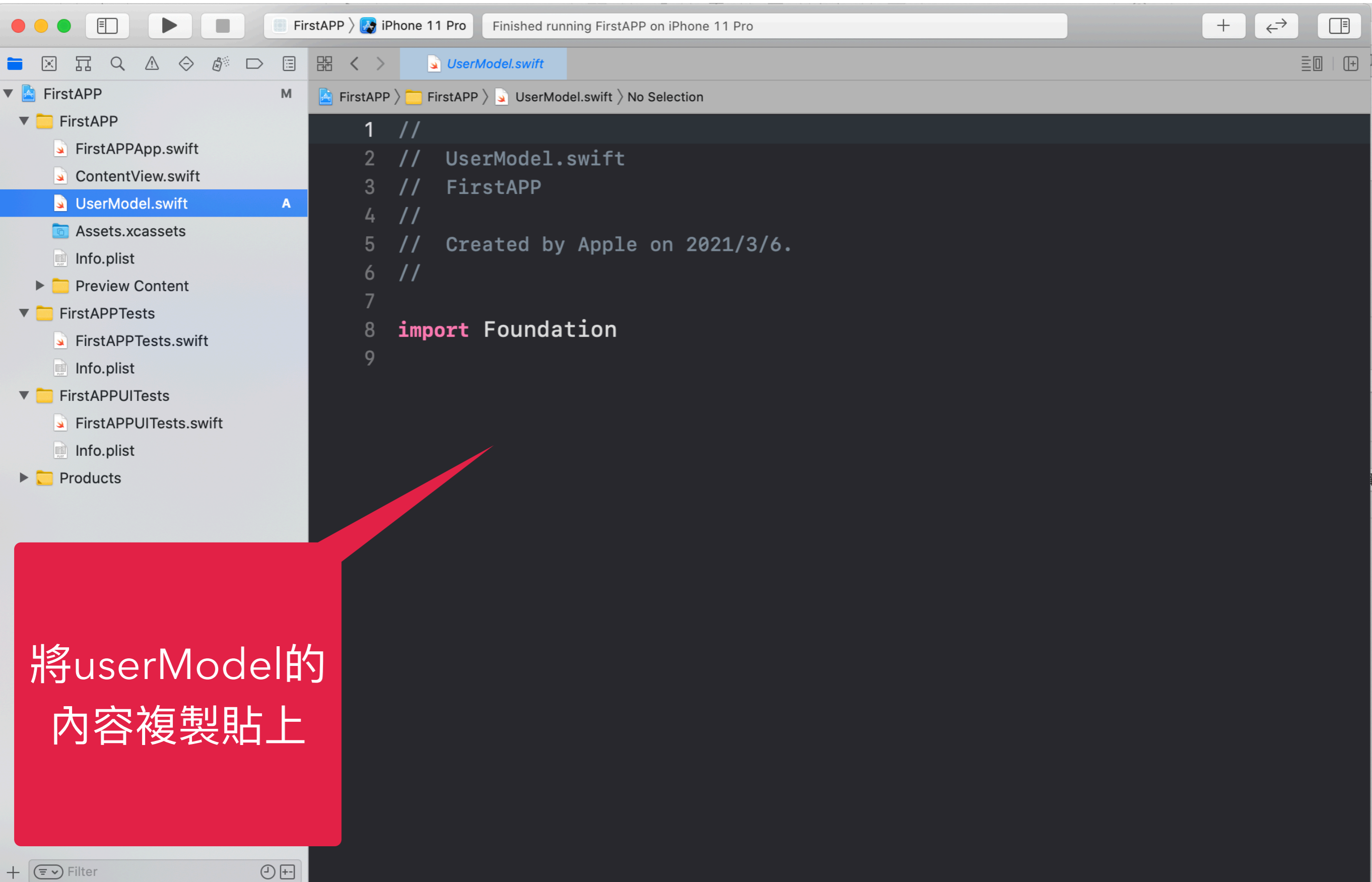
下一步

world!

ContentView 126.7x52.3

100%





將userModel的
內容複製貼上

UserModel
檔案內容

```
import SwiftUI
```

```
struct User: Codable, Identifiable {  
    let id = UUID()  
    let username: String  
    let name: String  
}
```

FirstAPP > iPhone 11 Pro Finished running FirstAPP on iPhone 11 Pro

FirstAPP > FirstAPP > UserModel.swift > No Selection

- FirstAPP
 - FirstAPP
 - FirstAPPApp.swift
 - ContentView.swift
 - UserModel.swift
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 - Info.plist
 - Preview Content
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 - FirstAPPTests.swift
 - Info.plist
 - FirstAPPUITests
 - FirstAPPUITests.swift
 - Info.plist
 - Products

```
1 //
2 //  UserModel.swift
3 //  FirstAPP
4 //
5 //  Created by Apple on 2021/3/6.
6 //
7
8 import Foundation
9
10 import SwiftUI
11
12
13
14
15 struct User: Codable, Identifiable {
16
17     let id = UUID()
18
19     let username: String
20
21     let name: String
22
23 }
24
```

Warning: Immutable property will not be decoded because it is declared with...

Filter

ViewModel

新增swift檔案
名稱為UserViewModel

```
3 // FirstAPP
4 //
5 // Created by Apple on 2021/3/6.
6 //
7
8 import Foundation
9
```

將UserViewModel
的內容複製貼上

UserViewModel

檔案內容

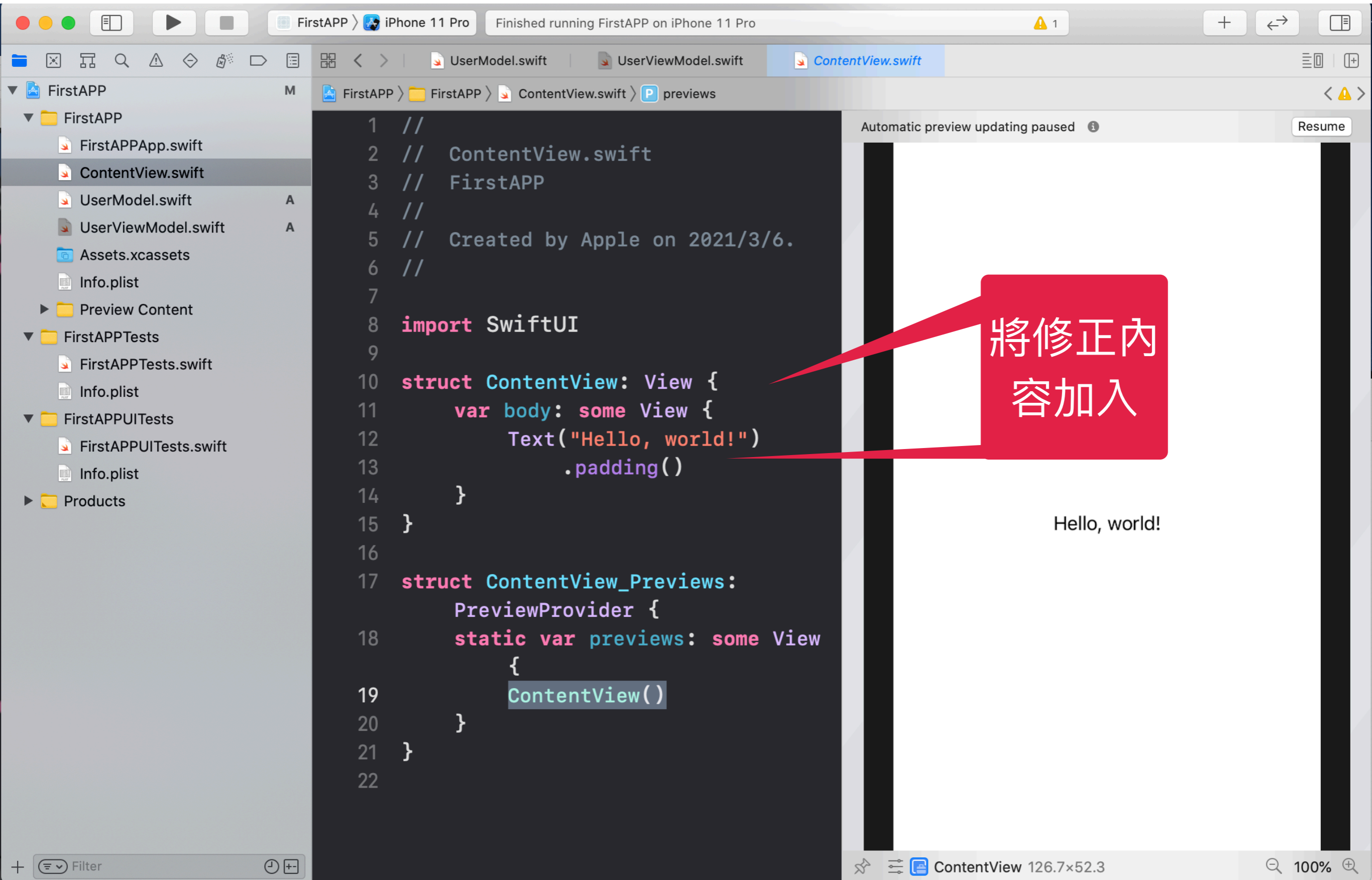
```
import Foundation

class apiCall {
    func getUsers(completion:@escaping ([User]) -> ()) {
        guard let url = URL(string: "https://jsonplaceholder.typicode.com/users") else { return }
        URLSession.shared.dataTask(with: url) { (data, _, _) in
            let users = try! JSONDecoder().decode([User].self, from: data!)
            print(users)

            DispatchQueue.main.async {
                completion(users)
            }
        }
        .resume()
    }
}
```

網頁
位址

Content View



- FirstAPP
 - FirstAPP
 - FirstAPPApp.swift
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 - Preview Content
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 - FirstAPPTests.swift
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 - FirstAPPUITests
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 - Info.plist
 - Products

```
1 //
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13             .padding()
14     }
15 }
16
17 struct ContentView_Previews:
18     PreviewProvider {
19     static var previews: some View
20     {
21         ContentView()
22     }
23 }
```

Automatic preview updating paused ⓘ Resume

將修正內容加入

FirstAPP > iPhone 11 Pro Finished running FirstAPP on iPhone 11 Pro

UserModel.swift | UserViewModel.swift | ContentView.swift

FirstAPP > FirstAPP > ContentView.swift > ContentView

```
1 //
2 // ContentView.swift
3 // FirstAPP
4 //
5 // Created by Apple on 2021/3/6.
6 //
7
8 import SwiftUI
9
10 struct ContentView: View {
11
12     @State var users: [User] = []
13
14     var body: some View {
15         Text("Hello, world!")
16         .onAppear {
17             apiCall().getUsers { (users) in
18
19                 self.users = users
20             }
21         }
22         .padding()
23     }
24 }
25
26 struct ContentView_Previews: PreviewProvider {
27     static var previews: some View {
```

Automatic pre... Resume

world!

Filter

100%

Project Explorer showing the file structure of FirstAPP. A red callout bubble with the text "執行" (Execute) points to the play button icon in the top toolbar.

```
4 //
5 // Created by Apple on 2021/3/6.
6 //
7
8 import SwiftUI
9
10 struct ContentView: View {
11
12     @State var users: [User] = []
13
14     var body: some View {
15         Text("Hello, world!")
16         .onAppear {
17             apiCall().getUsers { (users) in
18
19                 self.users = users
20             }
21         }
22         .padding()
```

Automatic preview window showing the rendered SwiftUI view. The text "Hello, world!" is visible. A "Resume" button is present in the top right corner.

網頁上的內容

```
2021-03-06 22:16:47.872947+0800 FirstAPP[7920:917122]
[] nw_protocol_get_quic_image_block_invoke dlopen
libquic failed
[FirstAPP.User(id:
98CDF6A8-72F0-4135-9B17-C2CDDFE01A6B, username:
"Bret", name: "Leanne Graham"), FirstAPP.User(id:
30005003-E35F-406B-9921-C89BE8B10B33, username:
"Antonette", name: "Ervin Howell"),
FirstAPP.User(id:
70BFEDA0-D666-48F3-9FD1-13A7082EA186, username:
"Samantha", name: "Clementine Bauch"),
FirstAPP.User(id:
```


將網頁上的內容顯示在
表列中

網頁位址

https://jsonplaceholder.typicode.com/users

喜好項目

http

喜好項目

顯示較少資訊



網頁內容

```
[
  {
    "id": 1,
    "name": "Leanne Graham",
    "username": "Bret",
    "email": "Sincere@april.biz",
    "address": {
      "street": "Kulas Light",
      "suite": "Apt. 556",
      "city": "Gwenborough",
      "zipcode": "92998-3874",
      "geo": {
        "lat": "-37.3159",
        "lng": "81.1496"
      }
    },
    "phone": "1-770-736-8031 x56442",
    "website": "hildegard.org",
    "company": {
      "name": "Romaguera-Crona",
      "catchPhrase": "Multi-layered client-server",
      "bs": "harness real-time e-markets"
    }
  },
  {
    "id": 2,
    "name": "Ervin Howell",
    "username": "Antonette",
    "email": "Shanna@melissa.tv",
    "address": {
      "street": "Victor Plains",
      "suite": "Suite 879",
      "city": "Wisokyburgh",
      "zipcode": "90566-7771",
      "geo": {
        "lat": "-43.9509",
        "lng": "-34.4618"
      }
    },
    "phone": "010-692-6593 x09125",
    "website": "anastasia.net",
    "company": {
      "name": "Deckow-Crist",
      "catchPhrase": "Proactive didactic contingency",
      "bs": "synergize scalable supply-chains"
    }
  },
  {
    "id": 3,
    "name": "Clementine Bauch",
    "username": "Samantha",
    "email": "Nathan@kevin.net",
    "address": {
      "street": "Patience Street",
      "suite": "Suite 421",
      "city": "Leopoldsdorf",
      "zipcode": "44138",
      "geo": {
        "lat": "38.1156",
        "lng": "12.1421"
      }
    },
    "phone": "849-465-7766 x1409",
    "website": "kruke.com",
    "company": {
      "name": "Kruke",
      "catchPhrase": "Profoundly prismatic",
      "bs": "synthesize high-level supply-chains"
    }
  },
  {
    "id": 4,
    "name": "Patricia Lebsack",
    "username": "Karianne",
    "email": "Julianne@adrian.biz",
    "address": {
      "street": "Kulas Junction",
      "suite": "Suite 827",
      "city": "Port Harbortown",
      "zipcode": "99037",
      "geo": {
        "lat": "59.1562",
        "lng": "-15.8040"
      }
    },
    "phone": "995-647-9246 x2947",
    "website": "marcelinc.com",
    "company": {
      "name": "Marcelo",
      "catchPhrase": "Profoundly user-centric",
      "bs": "synthesize high-level supply-chains"
    }
  },
  {
    "id": 5,
    "name": "Katherine Johnson",
    "username": "Brenden",
    "email": "Brenden@maria.io",
    "address": {
      "street": "Lorena Vista",
      "suite": "Suite 565",
      "city": "Port Harbortown",
      "zipcode": "99037",
      "geo": {
        "lat": "59.1562",
        "lng": "-15.8040"
      }
    },
    "phone": "995-647-9246 x2947",
    "website": "marcelinc.com",
    "company": {
      "name": "Marcelo",
      "catchPhrase": "Profoundly user-centric",
      "bs": "synthesize high-level supply-chains"
    }
  },
  {
    "id": 6,
    "name": "Charles Johnson",
    "username": "Serge",
    "email": "Serge@maria.io",
    "address": {
      "street": "Lorena Vista",
      "suite": "Suite 565",
      "city": "Port Harbortown",
      "zipcode": "99037",
      "geo": {
        "lat": "59.1562",
        "lng": "-15.8040"
      }
    },
    "phone": "995-647-9246 x2947",
    "website": "marcelinc.com",
    "company": {
      "name": "Marcelo",
      "catchPhrase": "Profoundly user-centric",
      "bs": "synthesize high-level supply-chains"
    }
  },
  {
    "id": 7,
    "name": "Margaret Hamill",
    "username": "Timothy",
    "email": "Timothy@maria.io",
    "address": {
      "street": "Lorena Vista",
      "suite": "Suite 565",
      "city": "Port Harbortown",
      "zipcode": "99037",
      "geo": {
        "lat": "59.1562",
        "lng": "-15.8040"
      }
    },
    "phone": "995-647-9246 x2947",
    "website": "marcelinc.com",
    "company": {
      "name": "Marcelo",
      "catchPhrase": "Profoundly user-centric",
      "bs": "synthesize high-level supply-chains"
    }
  },
  {
    "id": 8,
    "name": "Timothy Johnson",
    "username": "Serge",
    "email": "Serge@maria.io",
    "address": {
      "street": "Lorena Vista",
      "suite": "Suite 565",
      "city": "Port Harbortown",
      "zipcode": "99037",
      "geo": {
        "lat": "59.1562",
        "lng": "-15.8040"
      }
    },
    "phone": "995-647-9246 x2947",
    "website": "marcelinc.com",
    "company": {
      "name": "Marcelo",
      "catchPhrase": "Profoundly user-centric",
      "bs": "synthesize high-level supply-chains"
    }
  },
  {
    "id": 9,
    "name": "Margaret Hamill",
    "username": "Timothy",
    "email": "Timothy@maria.io",
    "address": {
      "street": "Lorena Vista",
      "suite": "Suite 565",
      "city": "Port Harbortown",
      "zipcode": "99037",
      "geo": {
        "lat": "59.1562",
        "lng": "-15.8040"
      }
    },
    "phone": "995-647-9246 x2947",
    "website": "marcelinc.com",
    "company": {
      "name": "Marcelo",
      "catchPhrase": "Profoundly user-centric",
      "bs": "synthesize high-level supply-chains"
    }
  },
  {
    "id": 10,
    "name": "Timothy Johnson",
    "username": "Serge",
    "email": "Serge@maria.io",
    "address": {
      "street": "Lorena Vista",
      "suite": "Suite 565",
      "city": "Port Harbortown",
      "zipcode": "99037",
      "geo": {
        "lat": "59.1562",
        "lng": "-15.8040"
      }
    },
    "phone": "995-647-9246 x2947",
    "website": "marcelinc.com",
    "company": {
      "name": "Marcelo",
      "catchPhrase": "Profoundly user-centric",
      "bs": "synthesize high-level supply-chains"
    }
  }
]
```

```
1 //
2 // ContentView.swift
3 // FirstAPP
4 //
5 // Created by Apple on 2021/3/6.
6 //
7
8 import SwiftUI
9
10 struct ContentView: View {
11
12     @State var users: [User] = []
13
14     var body: some View {
15         Text("Hello, world!")
16         .onAppear {
17             apiCall().getUsers { (users) in
18
19                 self.users = users
20             }
21         }
22         .padding()
23     }
24 }
25
26 struct ContentView_Previews: PreviewProvider {
27     static var previews: some View {
```

將text改為表列

Text("Hello, world!")

將text改
為表列

```
List(users) { user in  
  
    Text(user.username)  
        .font(.headline)  
  
    Text(user.name)  
        .font(.subheadline)  
  
}  
  
.onAppear {  
    apiCall().getUsers { (users) in  
        self.users = users  
    }  
}
```



```
12     @State var users: [User] = []
13     var body: some View {
14         VStack {
15             Image(systemName: "globe")
16                 .imageScale(.large)
17                 .foregroundColor(.accentColor)
18             List(users) { user in
19                 Text(user.username)
20                     .font(.headline)
21                 Text(user.name)
22                     .font(.subheadline)
23             }
24             .onAppear {
25                 apiCall().getUsers { (users) in
26                     self.users = users
27                 }
28         }
29     }
30
31     }
32     .padding()
```

執行

```
1 //
2 // ContentView.swift
3 // FirstAPP
4 //
5 // Created by Apple on 2021/3/6.
6 //
7
8 import SwiftUI
9
10 struct ContentView: View {
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12     @State var users: [User] = []
13
14     var body: some View {
15         List(users) { user in
16
17             Text(user.username)
18
19             .font(.headline)
20
21             Text(user.name)
22
```

螢幕上顯示網頁
中username與
name

10:29

Bret Leanne Graham

Antonette Ervin Howell

Samantha Clementine Bauch

Karianne Patricia Lebsack

Kamren Chelsey Dietrich

Leopoldo_Corkery Mrs. Dennis Schulist

Elwyn.Skiles Kurtis Weissnat

Maxime_Nienow Nicholas Runolfsdottir V

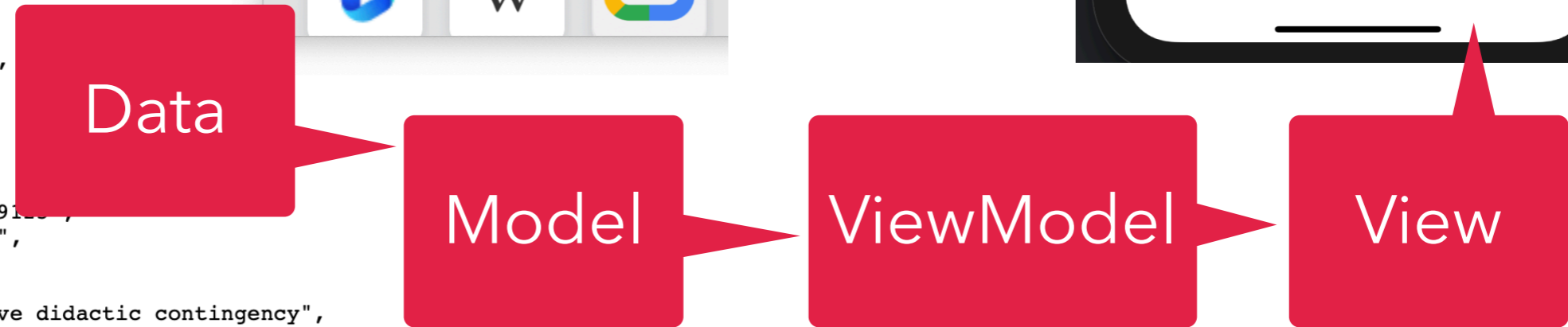
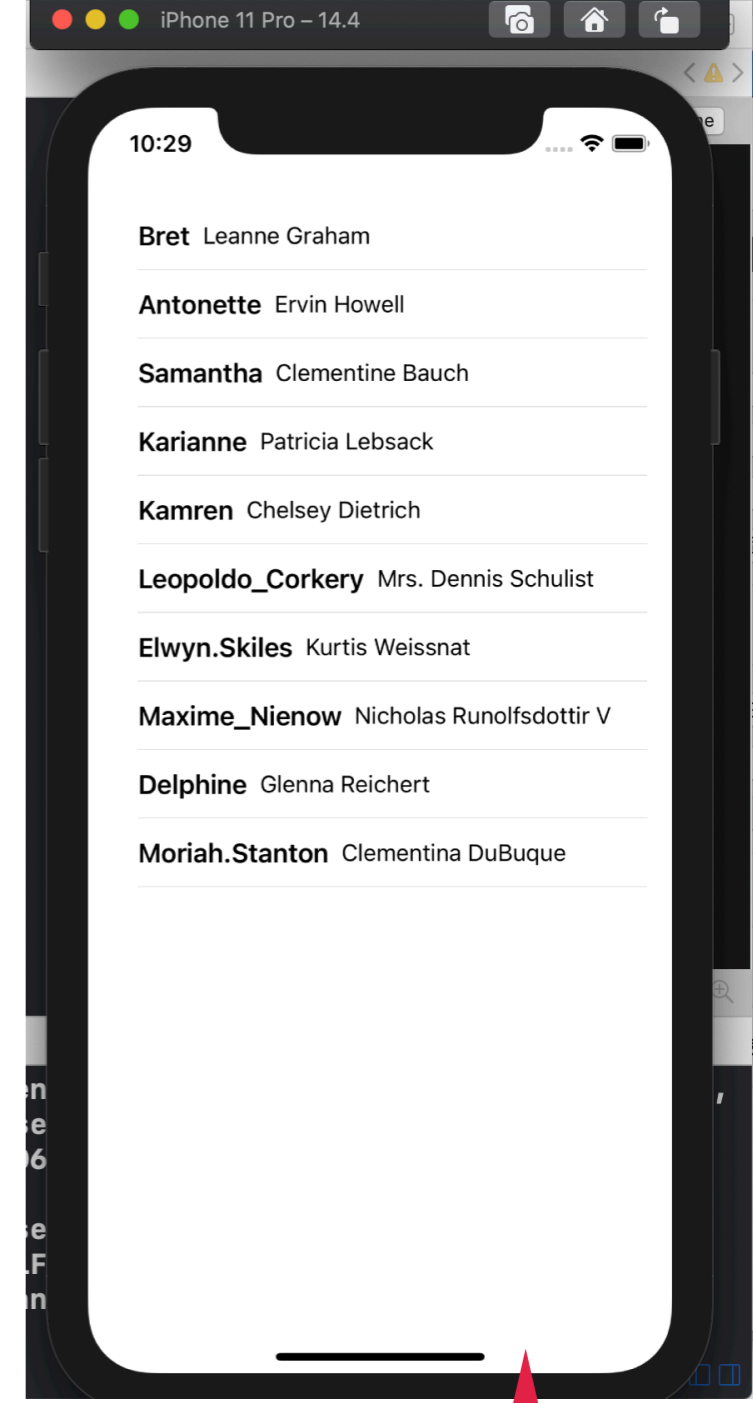
Delphine Glenna Reichert

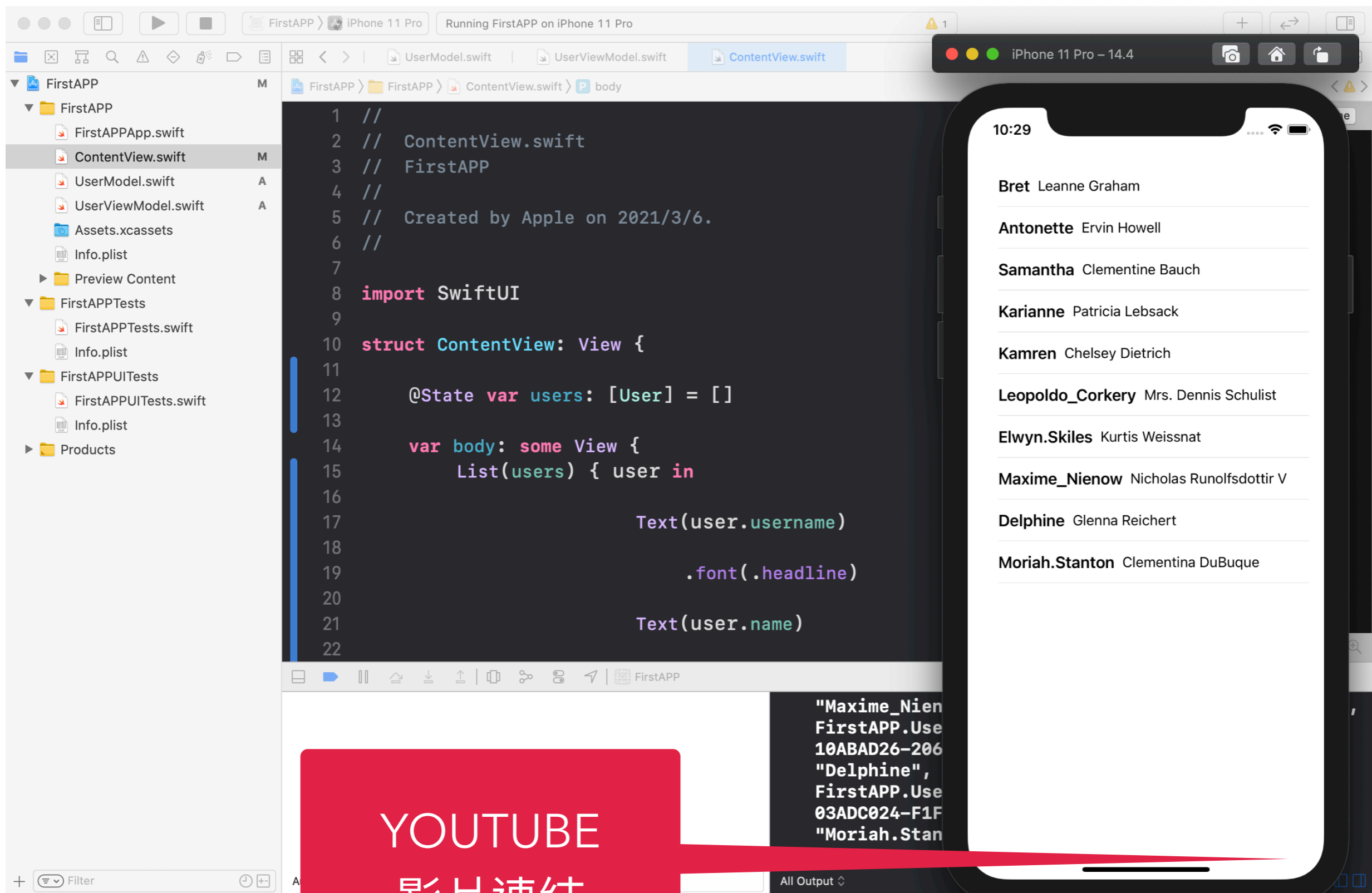
Moriah.Stanton Clementina DuBuque

Browser window showing a REST client interface with a URL `https://jsonplaceholder.typicode.com/users` and a JSON response. The JSON data is as follows:

```
[
  {
    "id": 1,
    "name": "Leanne Graham",
    "username": "Bret",
    "email": "Sincere@april.biz",
    "address": {
      "street": "Kulas Light",
      "suite": "Apt. 556",
      "city": "Gwenborough",
      "zipcode": "92998-3874",
      "geo": {
        "lat": "-37.3159",
        "lng": "81.1496"
      }
    },
    "phone": "1-770-736-8031 x56442",
    "website": "hildegard.org",
    "company": {
      "name": "Romaguera-Crona",
      "catchPhrase": "Multi-layered client-server",
      "bs": "harness real-time e-markets"
    }
  },
  {
    "id": 2,
    "name": "Ervin Howell",
    "username": "Antonette",
    "email": "Shanna@melissa.tv",
    "address": {
      "street": "Victor Plains",
      "suite": "Suite 879",
      "city": "Wisokyburgh",
      "zipcode": "90566-7771",
      "geo": {
        "lat": "-43.9509",
        "lng": "-34.4618"
      }
    },
    "phone": "010-692-6593 x09100",
    "website": "anastasia.net",
    "company": {
      "name": "Deckow-Crist",
      "catchPhrase": "Proactive didactic contingency",
      "bs": "synergize scalable supply-chains"
    }
  }
]
```

The interface also displays a grid of application icons under the heading "喜好項目" (Favorites).





YOUTUBE
影片連結

Reference

SwiftUI | Fetch JSON data & display it into a list

Learn how to create an API call to get data from a remote JSON file and display this data in a SwiftUI list. Let's get started!

寶可夢

```
8
9  import Foundation
10 import SwiftUI
11
12 let BASE_URL = "https://pokedex-bb36f.firebaseio.com/pokemon.json"
13
14 class PokemonViewModel: ObservableObject {
15     @Published var pokemon = [Pokemon]()
16     @Published var filteredPokemon = [Pokemon]()
17
```


https://pokedex-bb36f.firebaseio.com/pokemon.json

The image shows a web browser window displaying a JSON file from the URL `https://pokedex-bb36f.firebaseio.com/pokemon.json`. The JSON content is partially visible on the left and right sides of the browser. In the center, a 'Favorite Items' (喜好項目) overlay is shown, displaying a grid of application icons. The icons include Apple, Facebook, Yahoo!, Google, Google Translate, Image Processing, Point cloud, PCL - Point Cloud, How To Make A..., ScholarOn e Manus..., 淺談 Alpha Go 所涉..., 糖尿病人並非什麼都..., 7-ELEVEN ibon 便..., 【全家 FamiPor..., 學術研發服務網, Apple, iCloud, Yahoo, and others. The overlay also includes a '顯示較少資訊' (Show less info) button.

```
[{"id": "1", "name": "bulbasaur", "type": "grass", "weight": 69, "height": 7, "description": "Bulbasaur grows progressively larger.", "evolutionChain": [{"id": "2", "name": "ivysaur"}, {"id": "3", "name": "venusaur"}], "attack": 49, "defense": 49}, {"id": "2", "name": "ivysaur", "type": "poison", "weight": 68, "height": 10, "description": "Ivysaur is said to take on vivid colors if it gets angry.", "evolutionChain": [{"id": "3", "name": "venusaur"}], "attack": 62, "defense": 63}, {"id": "3", "name": "venusaur", "type": "poison", "weight": 100, "height": 12, "description": "Venusaur has a large flower on its back. The motions of people.", "evolutionChain": [{"id": "4", "name": "charmeleon"}], "attack": 62, "defense": 63}, {"id": "4", "name": "charmeleon", "type": "fire", "weight": 90, "height": 11, "description": "Charmeleon's flame wavers when it is angry.", "evolutionChain": [{"id": "5", "name": "charizard"}], "attack": 78, "defense": 78}, {"id": "5", "name": "charizard", "type": "fire", "weight": 100, "height": 17, "description": "Charizard breathes fire of such great intensity.", "evolutionChain": [{"id": "6", "name": "charizard"}], "attack": 84, "defense": 78}, {"id": "6", "name": "charizard", "type": "fire", "weight": 100, "height": 17, "description": "Charizard breathes fire of such great intensity.", "evolutionChain": [{"id": "7", "name": "squirtle"}], "attack": 55, "defense": 65}, {"id": "7", "name": "squirtle", "type": "water", "weight": 120, "height": 5, "description": "Squirtle's shell is made of a hard, bumpy material.", "evolutionChain": [{"id": "8", "name": "blastoise"}], "attack": 55, "defense": 65}, {"id": "8", "name": "blastoise", "type": "water", "weight": 160, "height": 16, "description": "Blastoise's shell is made of a hard, bumpy material.", "evolutionChain": [{"id": "9", "name": "metapod"}, {"id": "10", "name": "butterfree"}, {"id": "11", "name": "caterpie"}, {"id": "12", "name": "butterfree"}, {"id": "13", "name": "kakuna"}, {"id": "14", "name": "beedrill"}], "attack": 30, "defense": 35}, {"id": "9", "name": "metapod", "type": "bug", "weight": 120, "height": 7, "description": "Metapod is a very weak and tender creature.", "evolutionChain": [{"id": "10", "name": "butterfree"}, {"id": "11", "name": "caterpie"}, {"id": "12", "name": "butterfree"}, {"id": "13", "name": "kakuna"}, {"id": "14", "name": "beedrill"}], "attack": 20, "defense": 55}, {"id": "10", "name": "butterfree", "type": "flying", "weight": 320, "height": 11, "description": "Butterfree releases highly toxic dust into the air.", "evolutionChain": [{"id": "11", "name": "caterpie"}, {"id": "12", "name": "butterfree"}, {"id": "13", "name": "kakuna"}, {"id": "14", "name": "beedrill"}], "attack": 45, "defense": 50}, {"id": "11", "name": "caterpie", "type": "bug", "weight": 29, "height": 3, "description": "Caterpie is vulnerable to attack while its shell is soft.", "evolutionChain": [{"id": "12", "name": "butterfree"}, {"id": "13", "name": "kakuna"}, {"id": "14", "name": "beedrill"}], "attack": 20, "defense": 55}, {"id": "12", "name": "butterfree", "type": "flying", "weight": 320, "height": 11, "description": "Butterfree releases highly toxic dust into the air.", "evolutionChain": [{"id": "13", "name": "kakuna"}, {"id": "14", "name": "beedrill"}], "attack": 45, "defense": 50}, {"id": "13", "name": "kakuna", "type": "bug", "weight": 100, "height": 3, "description": "Kakuna is often found in forests, eating leaves.", "evolutionChain": [{"id": "14", "name": "beedrill"}], "attack": 35, "defense": 30}, {"id": "14", "name": "beedrill", "type": "poison", "weight": 32, "height": 3, "description": "Beedrill has a sharp venomous stinger on its head.", "evolutionChain": [{"id": "15", "name": "weedle"}, {"id": "16", "name": "weedle"}], "attack": 25, "defense": 50}, {"id": "15", "name": "weedle", "type": "poison", "weight": 32, "height": 3, "description": "Weedle is almost incapable of moving.", "evolutionChain": [{"id": "16", "name": "weedle"}], "attack": 25, "defense": 50}, {"id": "16", "name": "weedle", "type": "poison", "weight": 32, "height": 3, "description": "Weedle is almost incapable of moving.", "evolutionChain": [{"id": "17", "name": "weedle"}], "attack": 25, "defense": 50}
```
















10:45

Pokemon













<p>Bulbasaur</p> <p>poison</p> 	<p>Ivysaur</p> <p>poison</p> 
<p>Venusaur</p> <p>poison</p> 	<p>Charmander</p> <p>fire</p> 
<p>Charmeleon</p> <p>fire</p> 	<p>Charizard</p> <p>fire</p> 
<p>Squirtle</p> <p>water</p> 	<p>Wartortle</p> <p>water</p> 
<p>Blastoise</p> <p>water</p> 	<p>Caterpie</p> <p>bug</p> 
<p>Metapod</p> 	<p>Butterfree</p> 

10:45

Pokemon

<p>water</p> 	<p>water</p> 
<p>Blastoise</p> <p>water</p> 	<p>Caterpie</p> <p>bug</p> 
<p>Metapod</p> <p>bug</p> 	<p>Butterfree</p> <p>flying</p> 
<p>Weedle</p> <p>poison</p> 	<p>Kakuna</p> <p>poison</p> 
<p>Beedrill</p> <p>poison</p> 	<p>Pidgey</p> <p>flying</p> 
<p>Pidgeotto</p> <p>flying</p> 	<p>Pidgeot</p> <p>flying</p> 
<p>Rattata</p> 	<p>Raticate</p> 

Pokemon

ground 	ground 
Nidoran-F poison 	Nidorina poison 
Nidoqueen ground 	Nidoran-M poison 
Nidorino poison 	Nidoking ground 
Clefairy fairy 	Clefable fairy 
Vulpix fire 	Ninetales fire 
Jigglypuff	Wigglytuff

< Pokemon

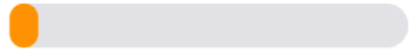
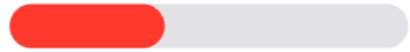





Clefable

Fairy

A timid fairy POKÉMON that is rarely seen. It will run and hide the moment it senses people.

Stats

Height	13	
Attack	70	
Defense	73	
Weight	400	
Total	100	

10:46

< Pokemon



Nidoking

Ground

It uses its powerful tail in battle to smash, constrict, then break the prey's bones.

Stats

Height	14	<div><div style="width: 10%;"></div></div>
Attack	102	<div><div style="width: 65%;"></div></div>
Defense	77	<div><div style="width: 45%;"></div></div>
Weight	620	<div><div style="width: 95%;"></div></div>
Total	100	<div><div style="width: 35%;"></div></div>

×



Welcome to Xcode

Version 12.4 (12D4e)



Create a new Xcode project

Create an app for iPhone, iPad, Mac, Apple Watch, or Apple TV.



Clone an existing project

Start working on something from a Git repository.



Open a project or file

Open an existing project or file on your Mac.



Show this window when Xcode launches



PokedexSwiftUI

~/Desktop/swift_2019_2020



FirstAPP

~/Desktop/swift_2019_2020



userJSON

~/Desktop/swift_2019_2020



Pokemon_test

~/Desktop/swift_2019_2020



WebViewSwiftUI

~/Desktop/swift_2019_2020



MyPlaygroundTest

~/Desktop/Jiann-Ming Wu/2021-II SWIFT



GuidedTour-2

...ng Wu/2021-II SWIFT/excercise playground



MyPlayground_morden

...ng Wu/2021-II SWIFT/excercise playground