



react native training

Debugging

Debugging

Debugging in depth

- Device
- Chrome
- Debugging from console
- Using native IDE
- Inspector
- React Devtools

Debugging

Shortcuts – simulator

Most debugging revolves around your simulator.

refreshing simulator

iOS – cmd + r

Android – r r

Debugging

Shortcuts – simulator

Most debugging revolves around your simulator.

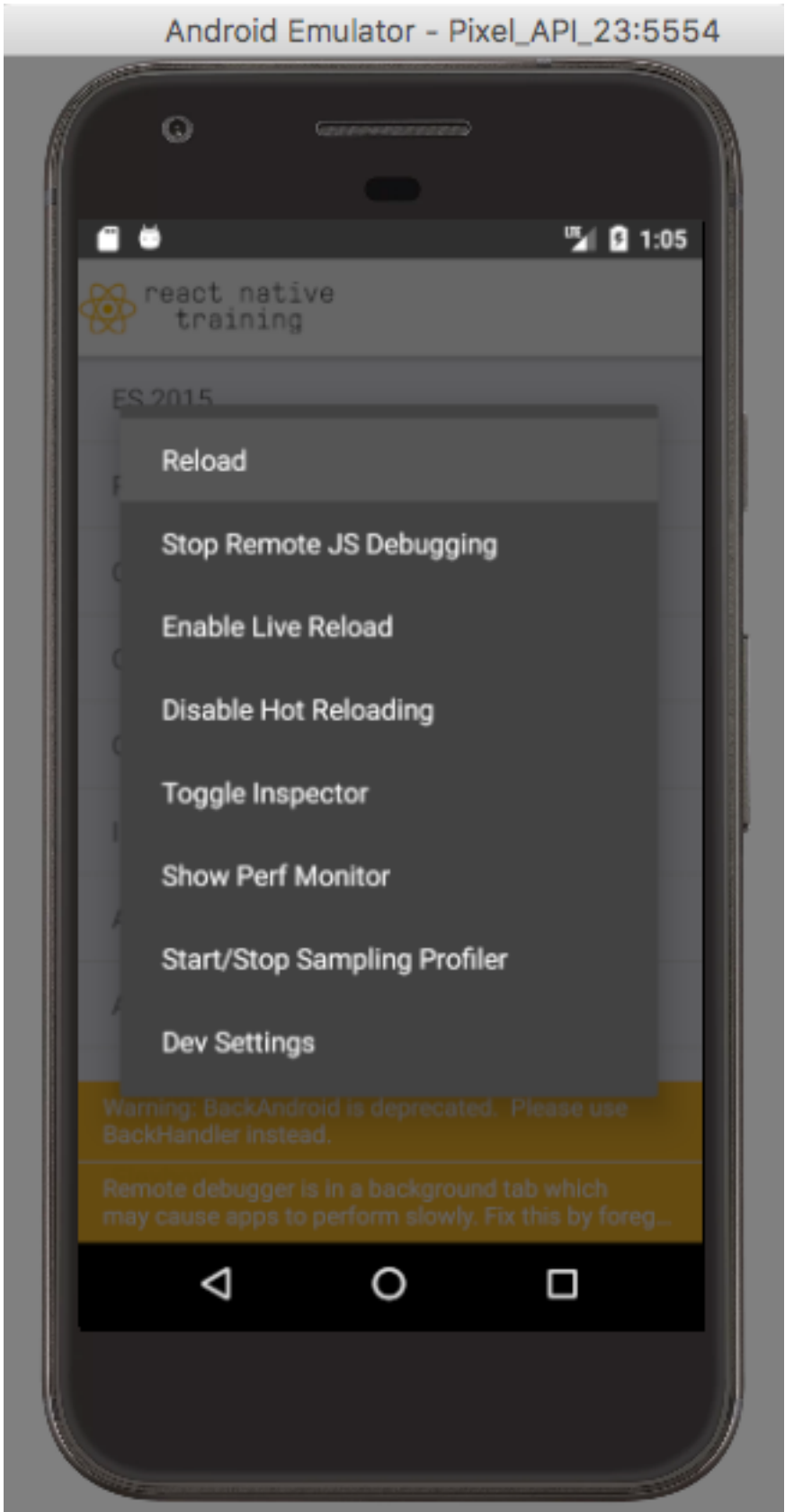
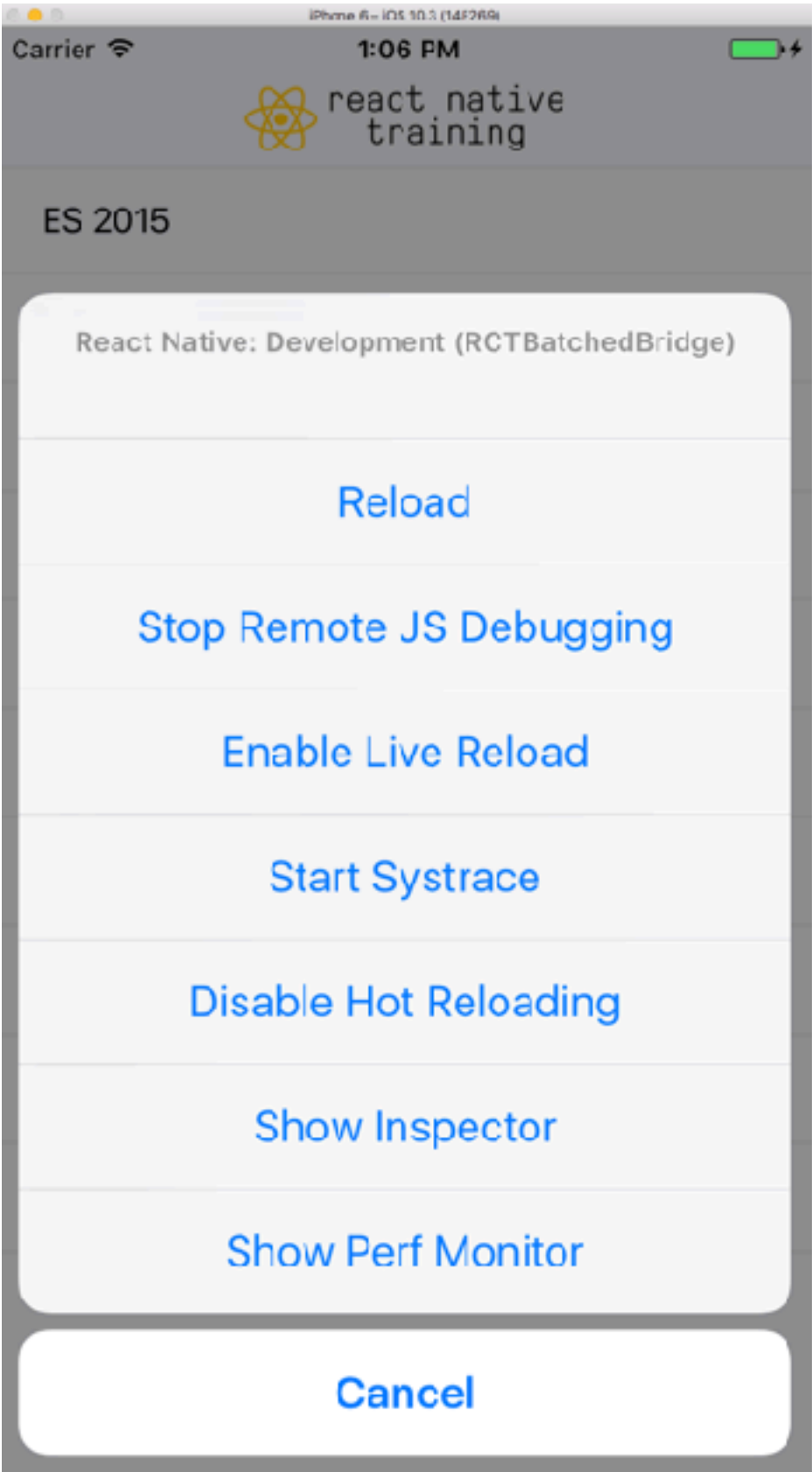
opening developer menu

iOS – cmd + d

Android – cmd + m

Debugging

Developer menu

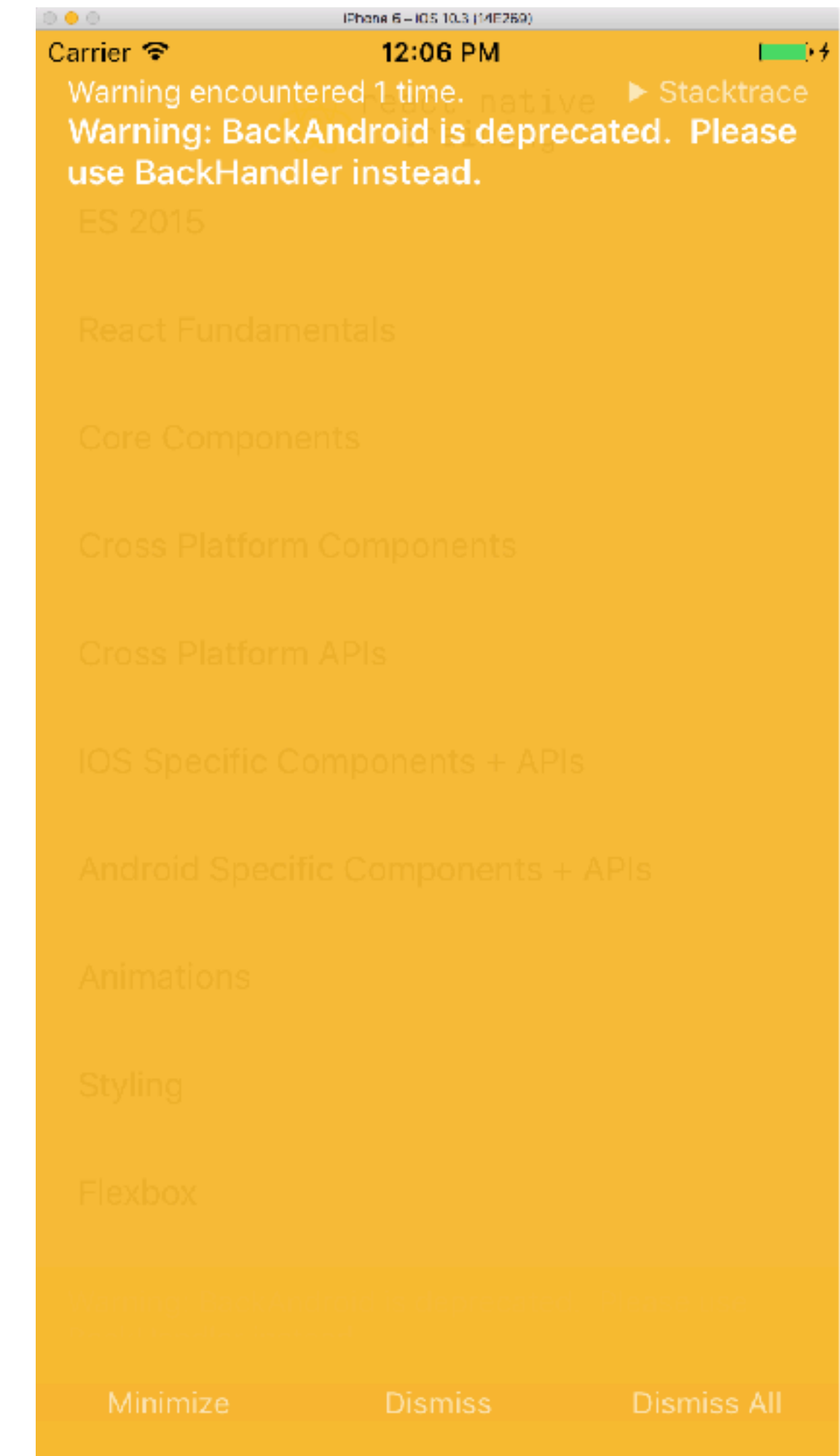
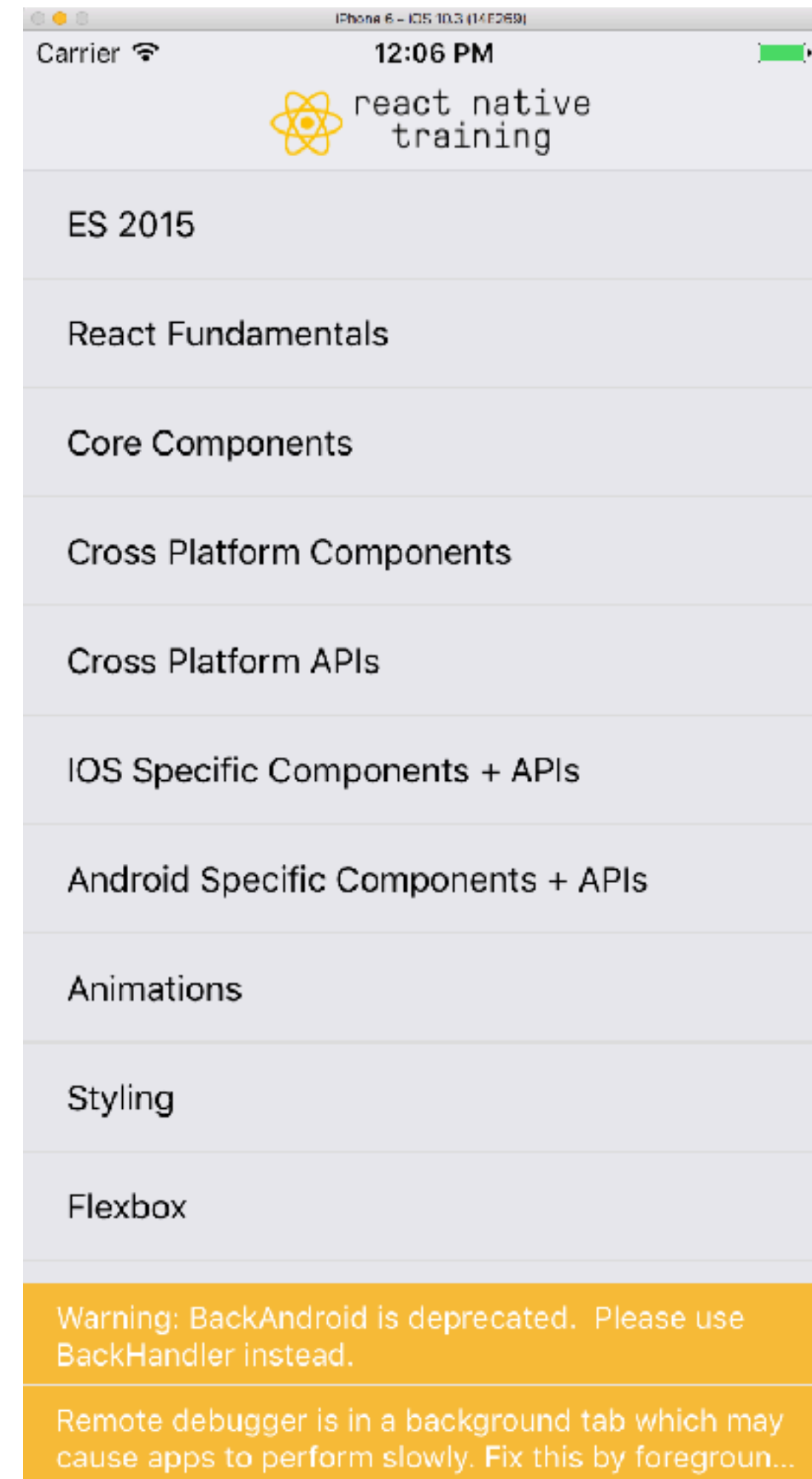


Debugging

Device

Warnings - iOS

Warnings will be displayed on screen with a yellow background. These alerts are known as YellowBoxes. Click on the alerts to show more information or to dismiss them.

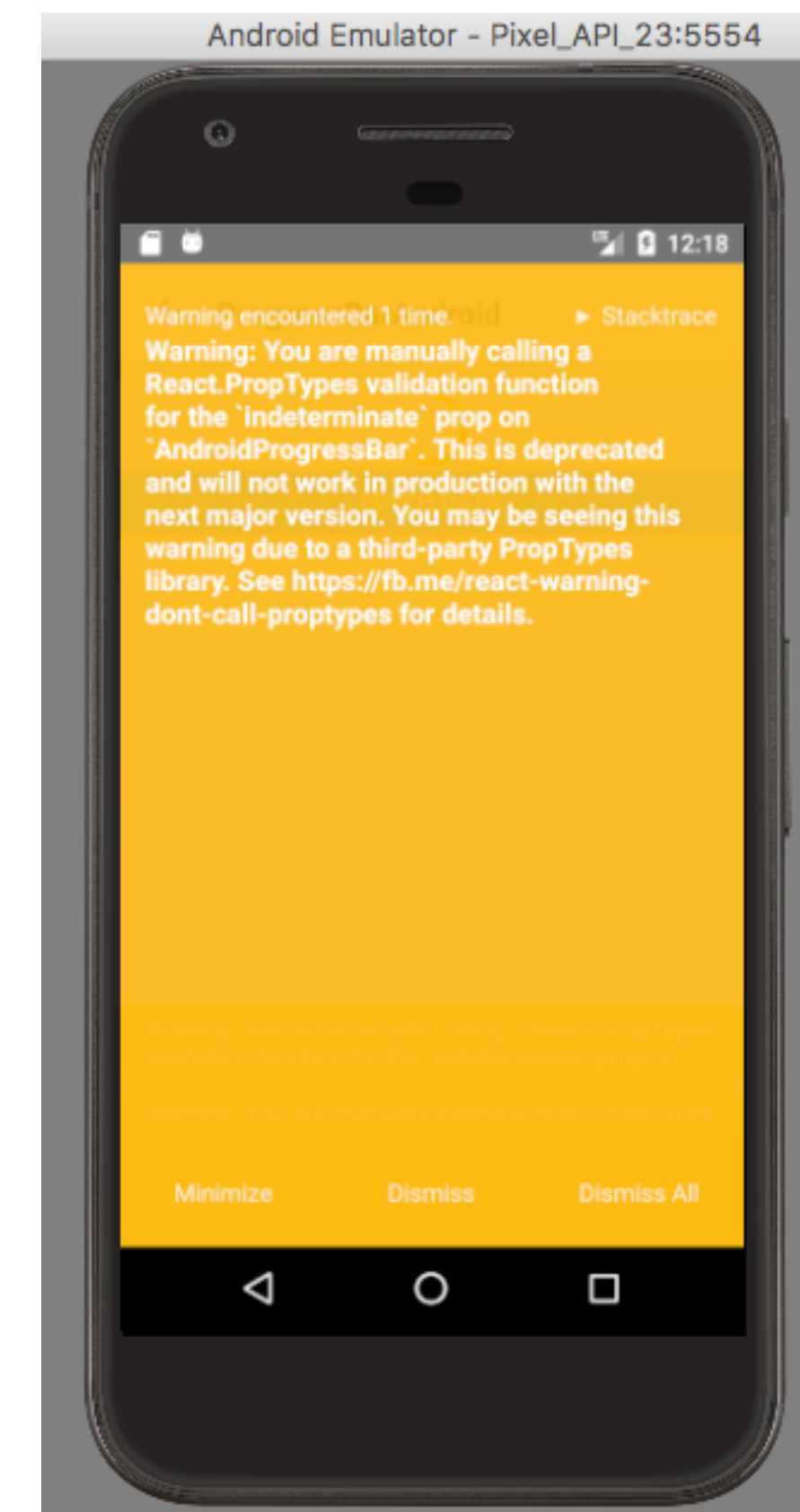
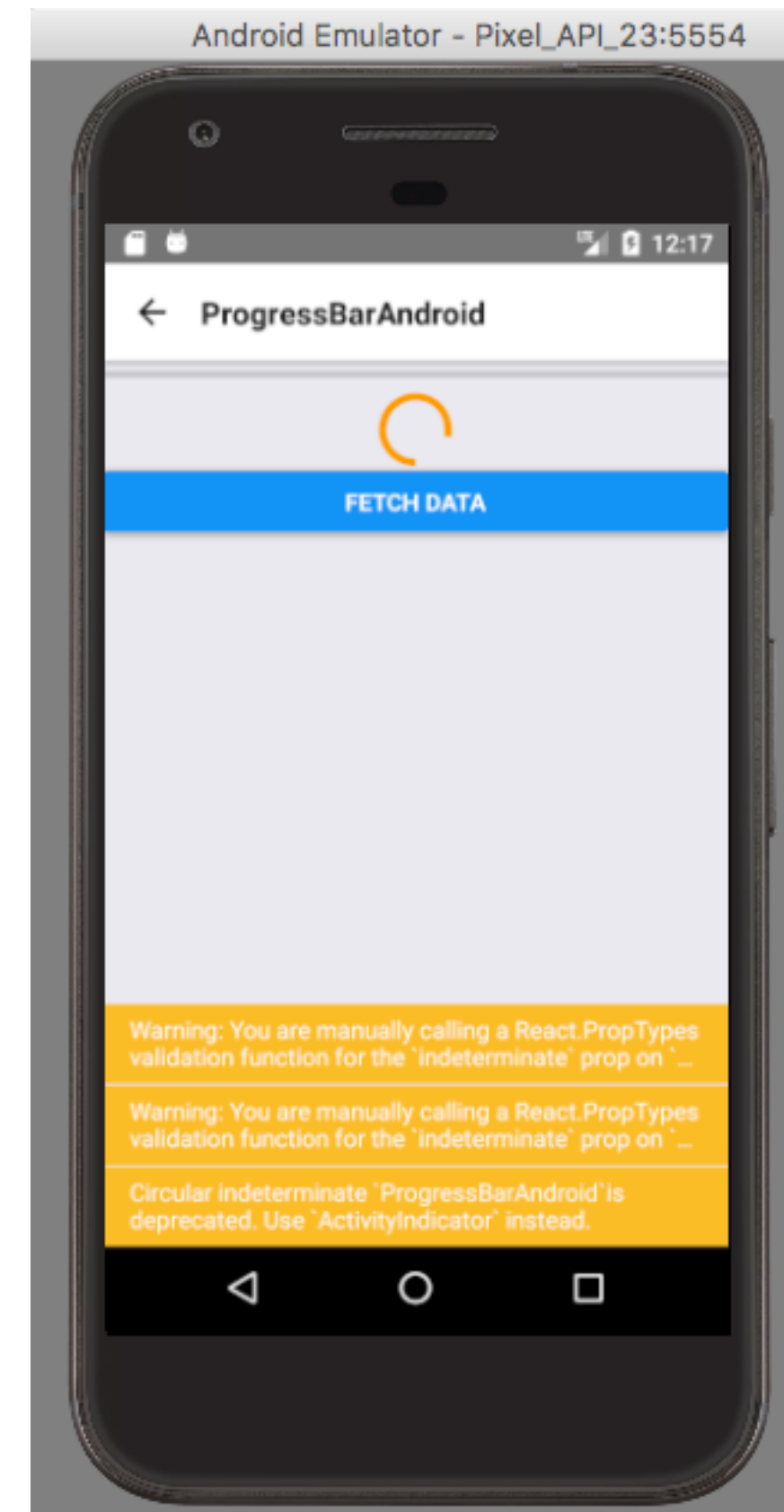


Debugging

Device

Warnings - android

Warnings will be displayed on screen with a yellow background. These alerts are known as YellowBoxes. Click on the alerts to show more information or to dismiss them.

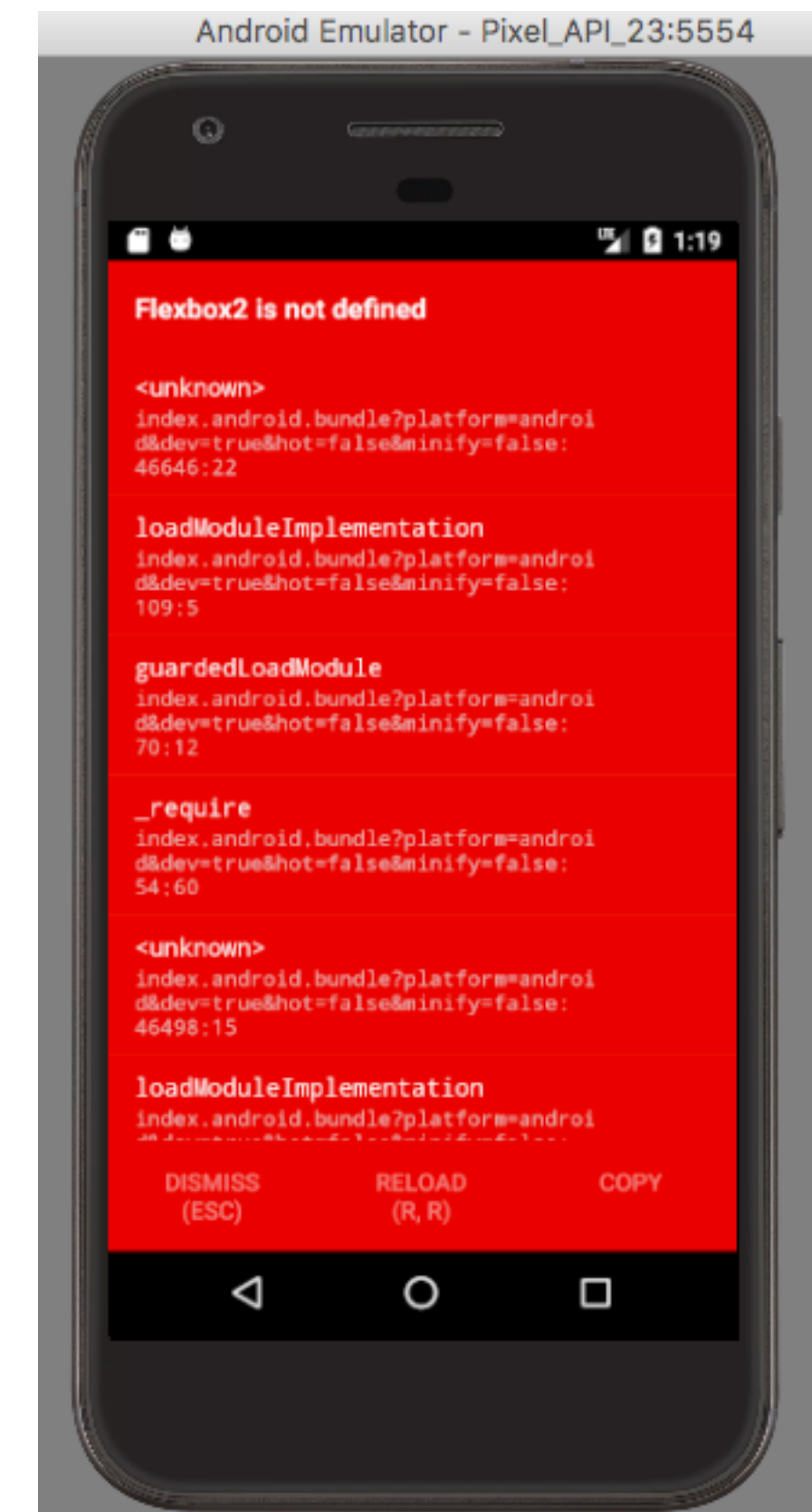


Debugging

Device

Errors - iOS

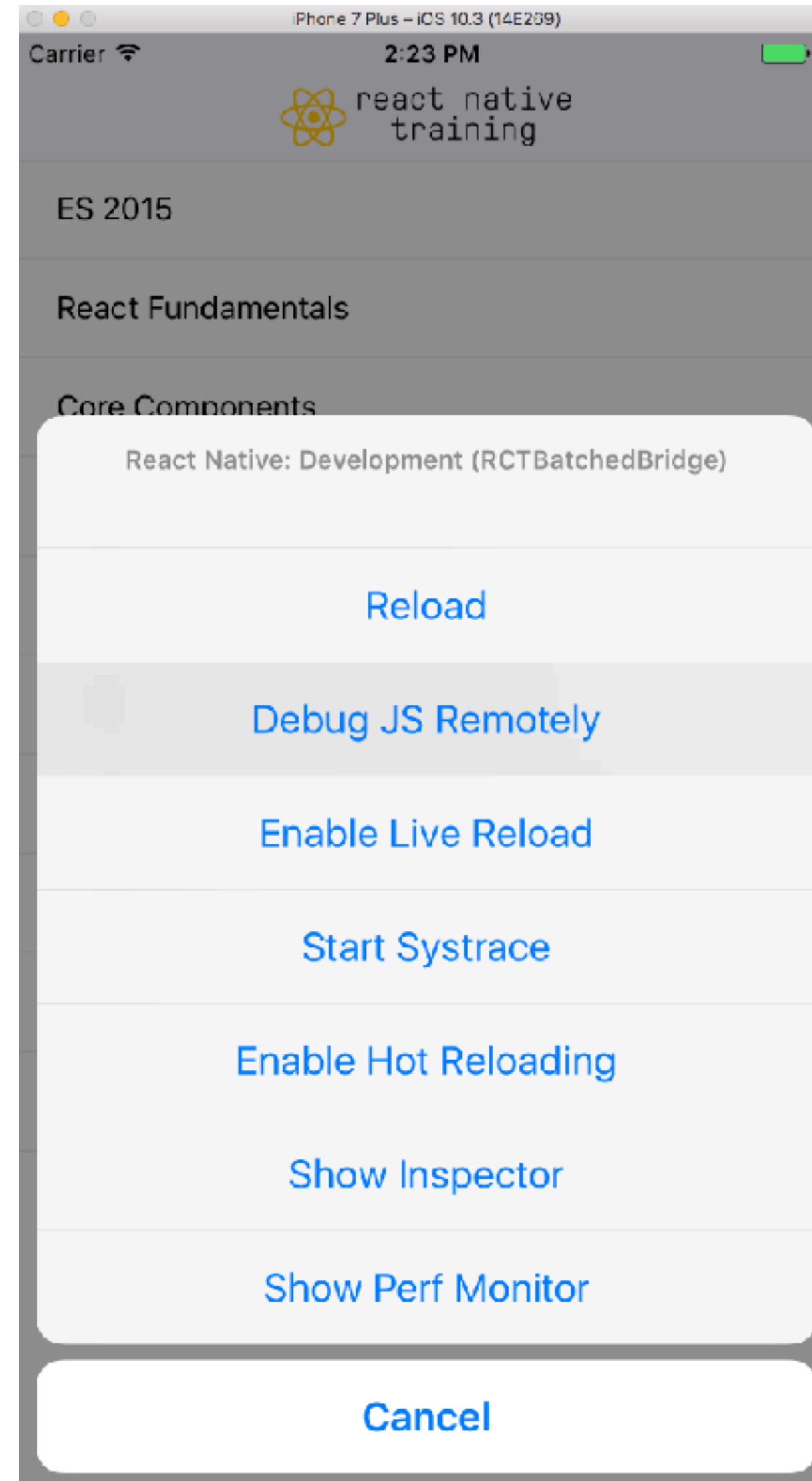
In-app errors are displayed in a full screen alert with a red background inside your app. This screen is known as a RedBox. You can use `console.error()` to manually trigger one.



Debugging

Debugging JavaScript

Choose Debug JS Remotely



Debugging

Debugging JavaScript

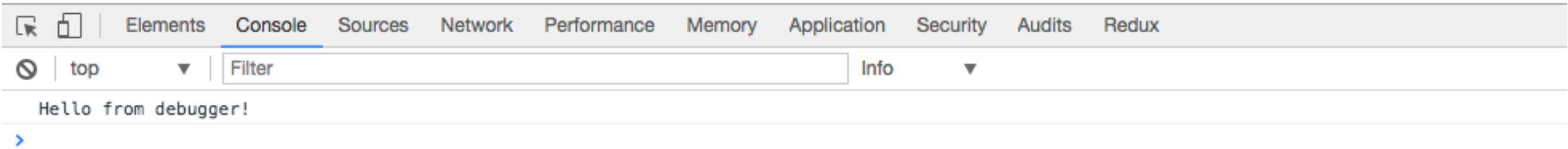
Log out information into JS Console

☐ Dark Theme ☐ Maintain Priority

React Native JS code runs as a web worker inside this tab.

Press  **J** to open Developer Tools. Enable [Pause On Caught Exceptions](#) for a better debugging experience.

Status: Debugger session #10732 active.

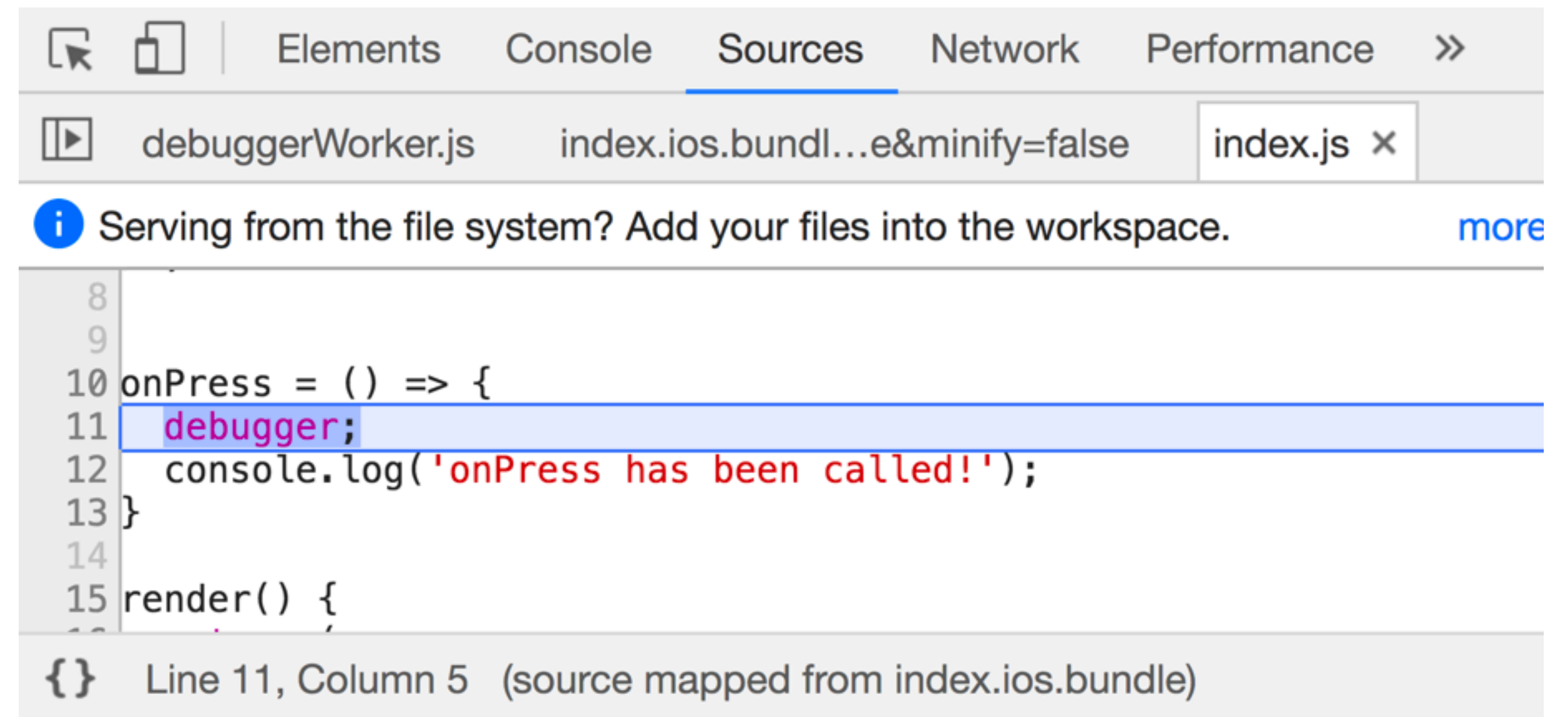


Debugging

Debugging JavaScript

debugger statement

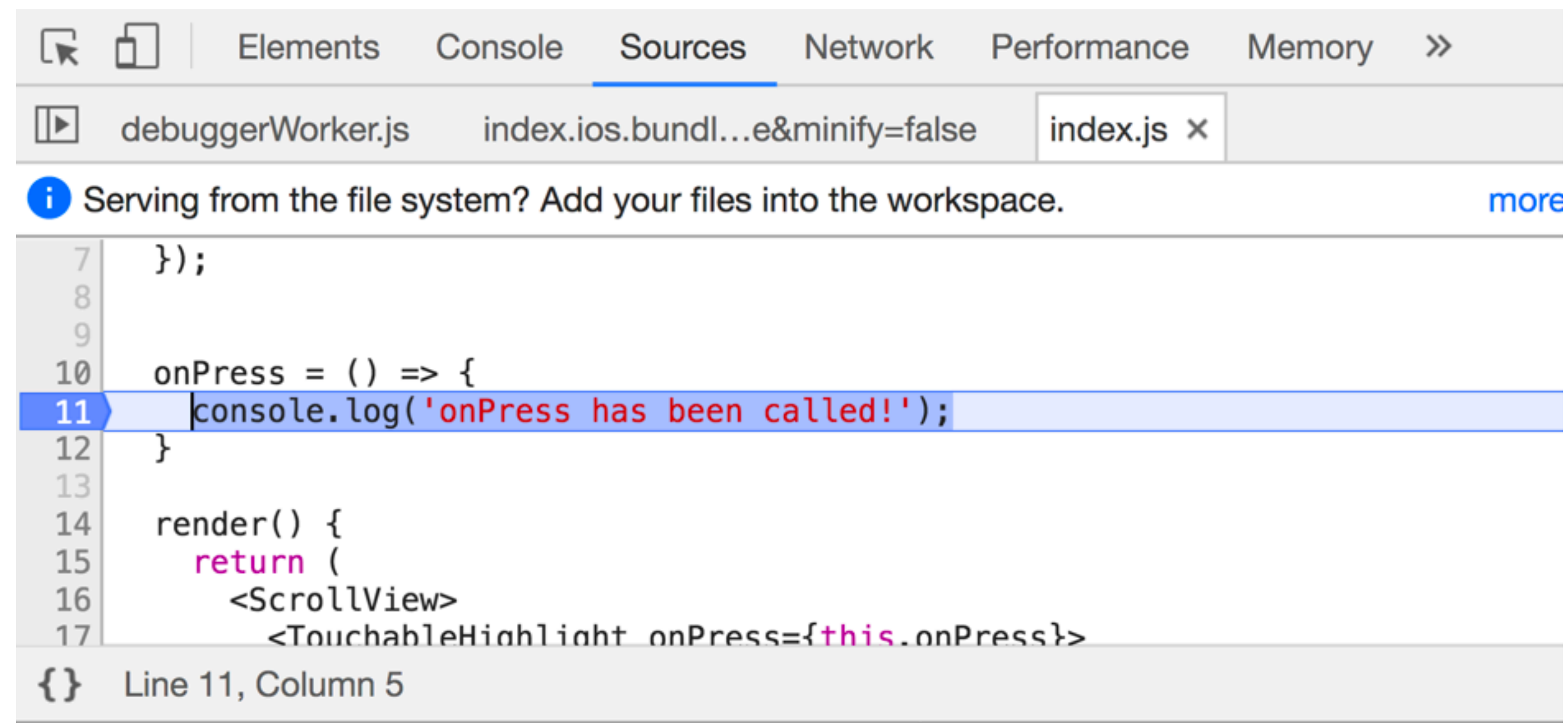
```
onPress = () => {  
  debugger;  
  console.log('onPress has been called!');  
}
```



Debugging

Debugging JavaScript

console breakpoints



The screenshot shows the 'Sources' panel of a web browser's developer tools. The file 'index.js' is open, and a blue arrow breakpoint is set on line 11, column 5, at the start of the `console.log` statement. The code is as follows:

```
7   });  
8  
9  
10  onPress = () => {  
11  console.log('onPress has been called!');  
12  }  
13  
14  render() {  
15    return (  
16      <ScrollView>  
17        <TouchableHighlight onPress={this.onPress}>
```

At the bottom of the panel, a status bar indicates the current position: `{}` Line 11, Column 5.

Debugging

Debugging native code

log from console using
react-native log-platform
command

react-native log-ios
react-native log-android

```
og-ios (syslog)

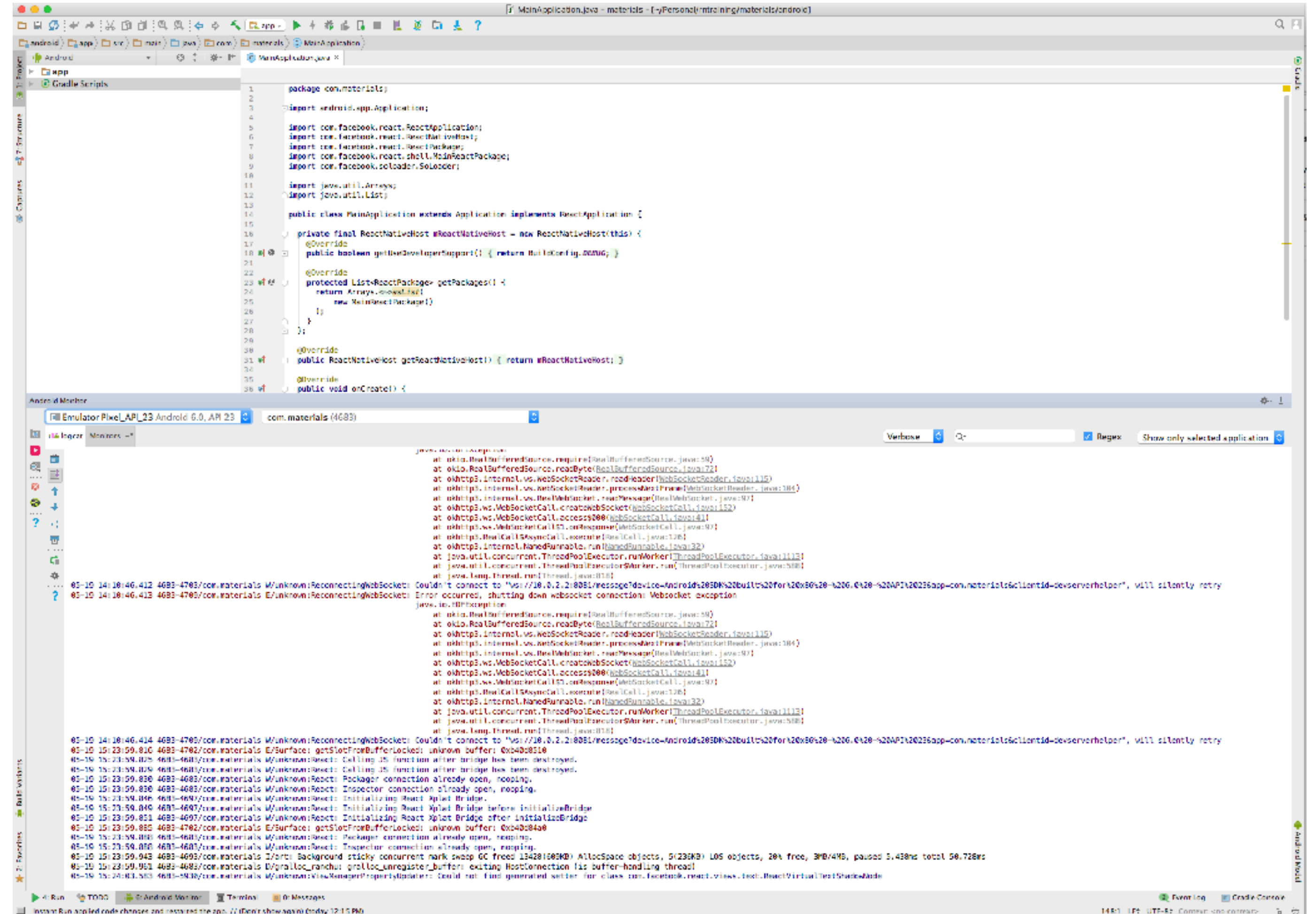
react-native (syslog)
HAVE BEEN DISCARDED ***
May 19 15:17:59 naders-MacBook-Pro-3 routined[98123] <Error>: CoreLocation: Error occurred while trying to retrieve motion state up
date: OLErrorDomain Code:104
May 19 15:18:25 naders-MacBook-Pro-3 materials[98220] <Critical>: *** LOG MESSAGE QUOTA EXCEEDED - SOME MESSAGES FROM THIS PROCESS
HAVE BEEN DISCARDED ***
May 19 15:18:57 naders-MacBook-Pro-3 CoreSimulatorBridge[98140] <Warning>: Pasteboard change listener callback port <NSMachPort: 0x
7f9dbf70c2d0> registered
May 19 15:18:57 naders-MacBook-Pro-3 pasted[98155] <Warning>: Bundle ID com.apple.CoreSimulator.CoreSimulatorBridge from team (null
) is requesting item 0 of type public.html from pasteboard named com.apple.UIKit.pboard.general with UUID 3F6F3936-ED57-409B-96E3-8
6C120AF1846
May 19 15:18:57 naders-MacBook-Pro-3 pasted[98155] <Warning>: Loading item 0x7f9bc5d09250 120CEF11-40F0-48CD-B248-EB36EA4347EF type
public.html from URL file:///Users/naderdabit/Library/Developer/CoreSimulator/Devices/0D11963B-F660-4CAA-AB45-587A601F387F/data/Li
brary/Caches/com.apple.Pasteboard/eb77e5f8f043896faf63b5041f0fbd121db984dd/1b87ed66958e1213b9842f427aa9b272c7a17eb4
May 19 15:18:57 naders-MacBook-Pro-3 pasted[98155] <Warning>: ...item request completed. Error: (null)
May 19 15:18:57 naders-MacBook-Pro-3 pasted[98155] <Warning>: Bundle ID com.apple.CoreSimulator.CoreSimulatorBridge from team (null
) is requesting item 0 of type public.utf8-plain-text from pasteboard named com.apple.UIKit.pboard.general with UUID 3F6F3936-ED57-
409B-96E3-86C120AF1846
May 19 15:18:57 naders-MacBook-Pro-3 pasted[98155] <Warning>: Loading item 0x7f9bc5d09250 120CEF11-40F0-48CD-B248-EB36EA4347EF type
public.utf8-plain-text from URL file:///Users/naderdabit/Library/Developer/CoreSimulator/Devices/0D11963B-F660-4CAA-AB45-587A601F3
87F/data/Library/Caches/com.apple.Pasteboard/eb77e5f8f043896faf63b5041f0fbd121db984dd/64f890d85b8f78bf0e0ee7daba2ece7ce89021ee
May 19 15:18:57 naders-MacBook-Pro-3 pasted[98155] <Warning>: ...item request completed. Error: (null)
May 19 15:18:57 naders-MacBook-Pro-3 pasted[98155] <Warning>: Bundle ID com.apple.CoreSimulator.CoreSimulatorBridge from team (null
) is requesting item 0 of type public.url from pasteboard named com.apple.UIKit.pboard.general with UUID 3F6F3936-ED57-409B-96E3-86
C120AF1846
May 19 15:18:57 naders-MacBook-Pro-3 pasted[98155] <Warning>: Loading item 0x7f9bc5d09250 120CEF11-40F0-48CD-B248-EB36EA4347EF type
public.url from URL file:///Users/naderdabit/Library/Developer/CoreSimulator/Devices/0D11963B-F660-4CAA-AB45-587A601F387F/data/Lib
rary/Caches/com.apple.Pasteboard/eb77e5f8f043896faf63b5041f0fbd121db984dd/2ff7b1130fd74a3d2347ecddac3c7e8ea288c59d
May 19 15:18:57 naders-MacBook-Pro-3 pasted[98155] <Warning>: ...item request completed. Error: (null)
May 19 15:18:58 naders-MacBook-Pro-3 materials[98220] <Notice>: Initializing <RCTBatchedBridge: 0x6000003ac780> (parent: <RCTBridge
: 0x6000000d4eb0>, executor: RCTWebSocketExecutor)
May 19 15:18:58 naders-MacBook-Pro-3 materials[98220] <Warning>: Required dispatch_sync to load constants for RCTSourceCode. This m
ay lead to deadlocks
May 19 15:18:59 naders-MacBook-Pro-3 materials[98220] <Notice>: Running application materials ({
  initialProps = {
  };
  rootTag = 1;
})
[]
```


Debugging

Debugging native code

log from native IDE

Android Studio - Android Monitor

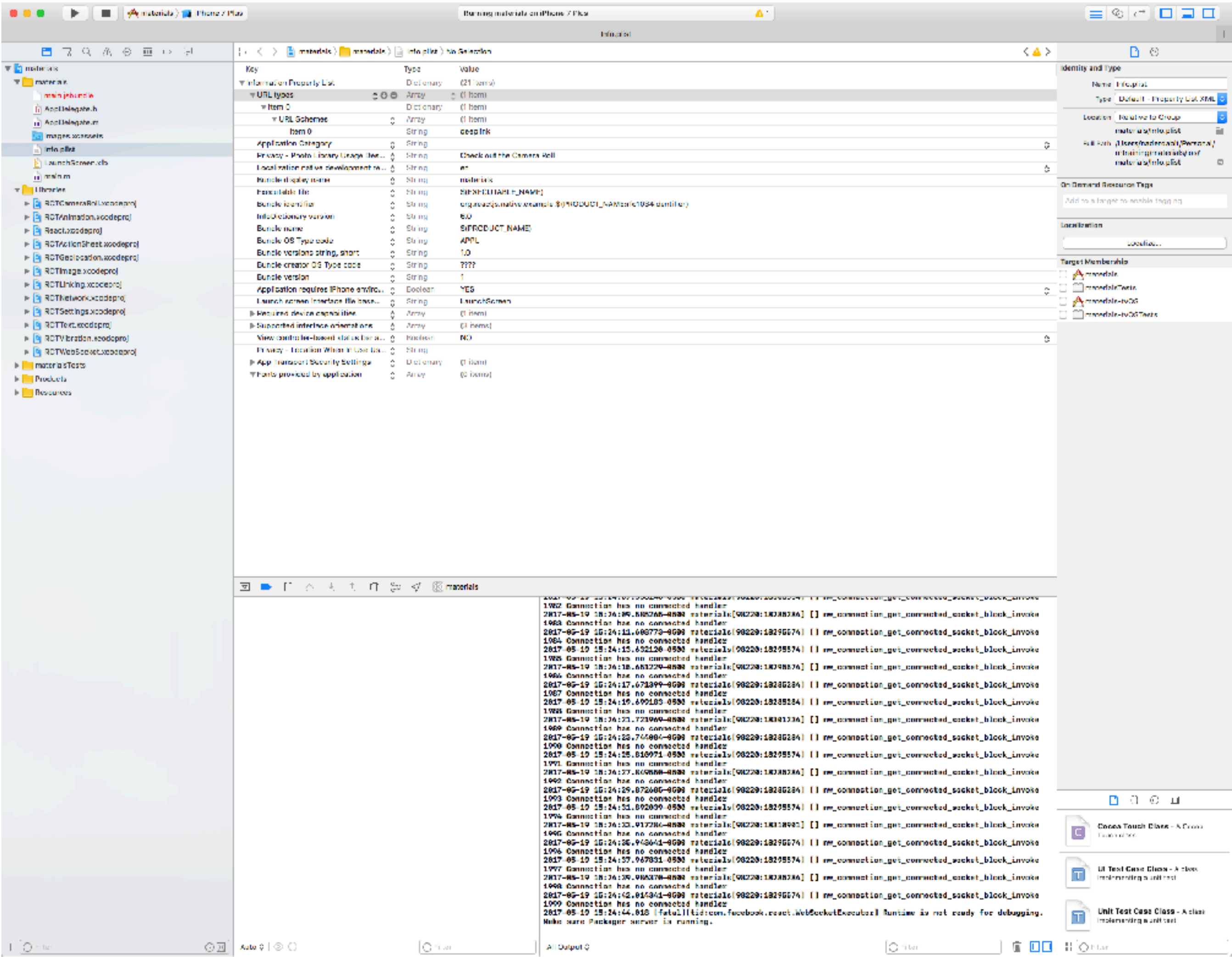


Debugging

Debugging native code

log from native IDE

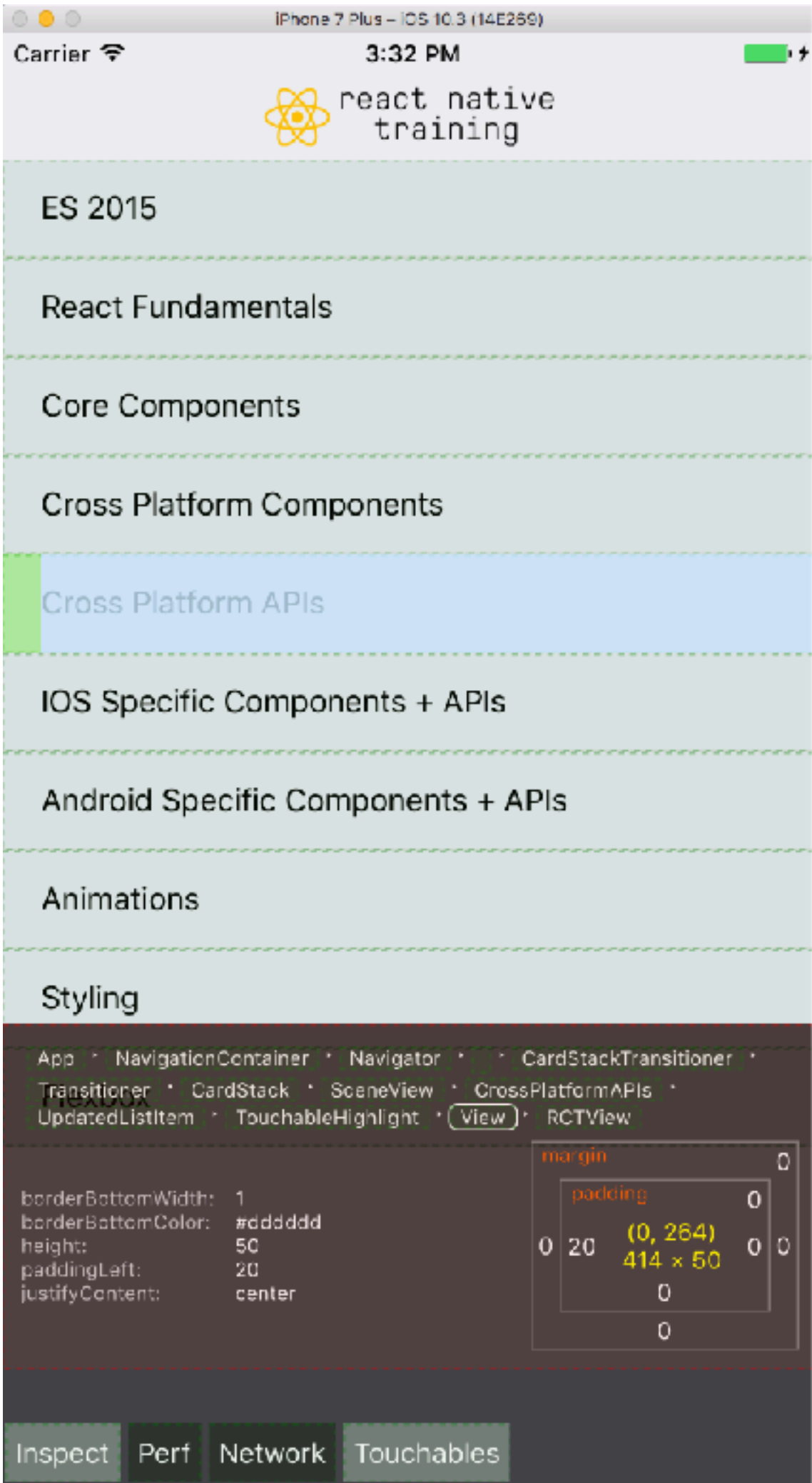
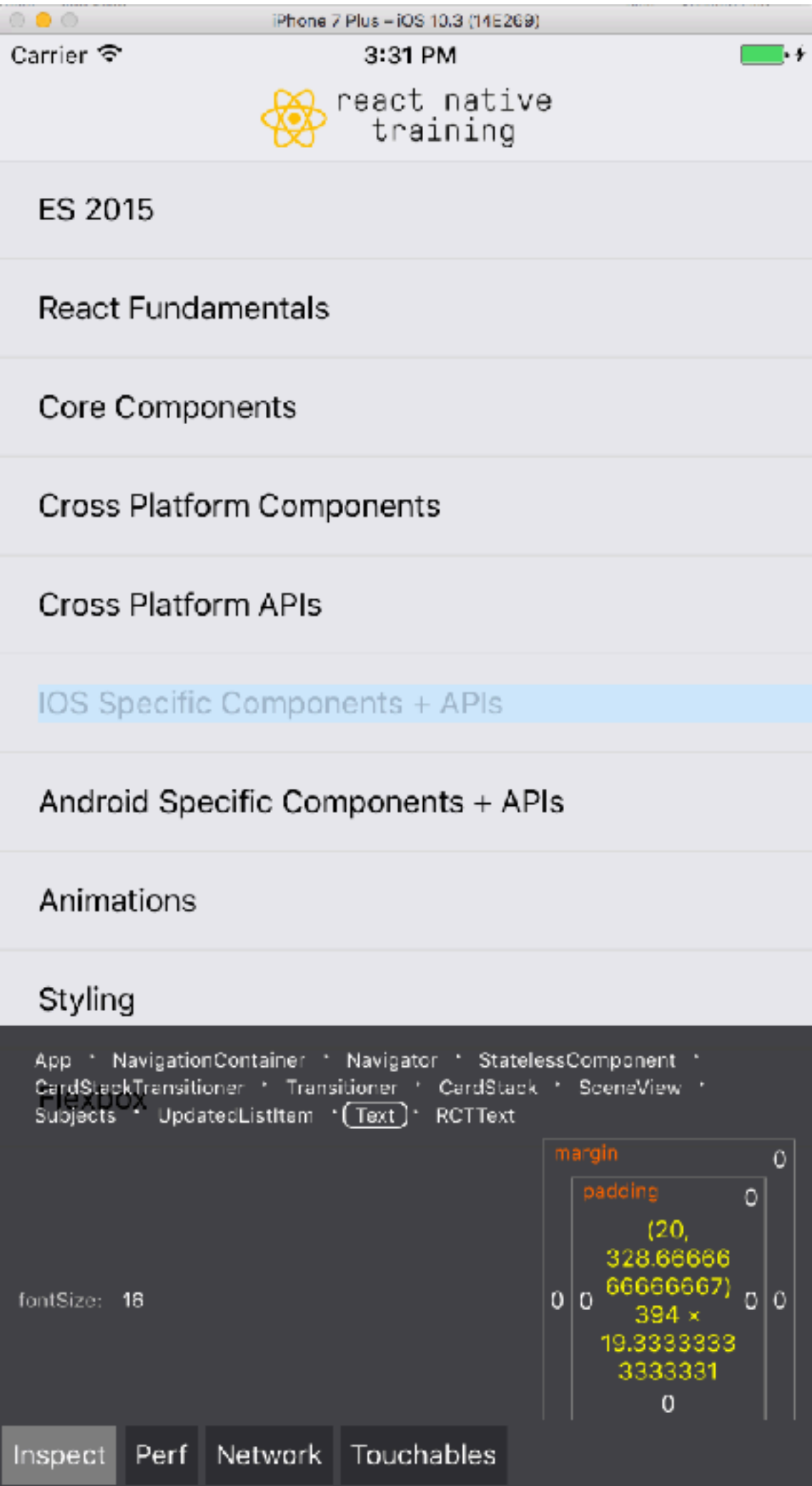
Xcode



Debugging

Using the inspector

basics



Debugging

Using React Devtools

basics

step 1: install react-devtools

```
npm i --save-dev react-devtools
```

step 2: add devtools script to package.json

```
"devtools": "react-devtools"
```

step 3: run script

```
npm run devtools
```

Debugging

Using React Devtools

