RN总结

Philsong 2015/11/27

有状态的组件

组件：（通过 this.**props**） 接受**输入**数据），（通过 this.**state**）保持**内部状态**数据。当一个组件的**状态数据**的变化，展现的标记将被重新调用 **render()** 更新，并以**事件代理**的方式通知控制逻辑。

Props和State比较

-	*props*	*state*
Can get initial value from parent Component?	Yes	Yes
Can be changed by parent Component?	Yes	No
Can set default values inside Component?*	Yes	Yes
Can change inside Component?	No	Yes
Can set initial value for child Components?	Yes	Yes
Can change in child Components?	Yes	No

实例：利用props控制logic和ui

```
00      // Reverse Geocoding
01      var cancelButton = null;
02
03      if (this.props.from) {
04        cancelButton = <NavButton
05          onPress={this.onPressCancel}
06          text='Cancel'
07        />
08      }
09      return (
10        <View  style={styles.container}>
11          {cancelButton}
12          <View style={styles.location}>
13            <Image
14              style={{margin: 13}}
15              source={require('image!location')}/>
16            <Text
17              style={styles.locationText}>
18              {this.state.position}
19            </Text>
20          </View>
```

ref 属性

从 render() 中返回的内容并不是实际渲染出来的子组件实例。从 render() 返回的仅仅是子组件层级树实例在特定时间的一个描述。－－ 一个快照

所以，我们如何与真正的 input 支撑实例（ backing instance ） 交流?

做法很简单：

1、绑定一个 ref 属性到 render 返回的东西上面去，例如：

<input ref="myInput" />

2、在其它代码中（典型地事件处理代码），通过 this.refs 获取支撑实例（ backing instance ），就像这样：

this.refs.myInput

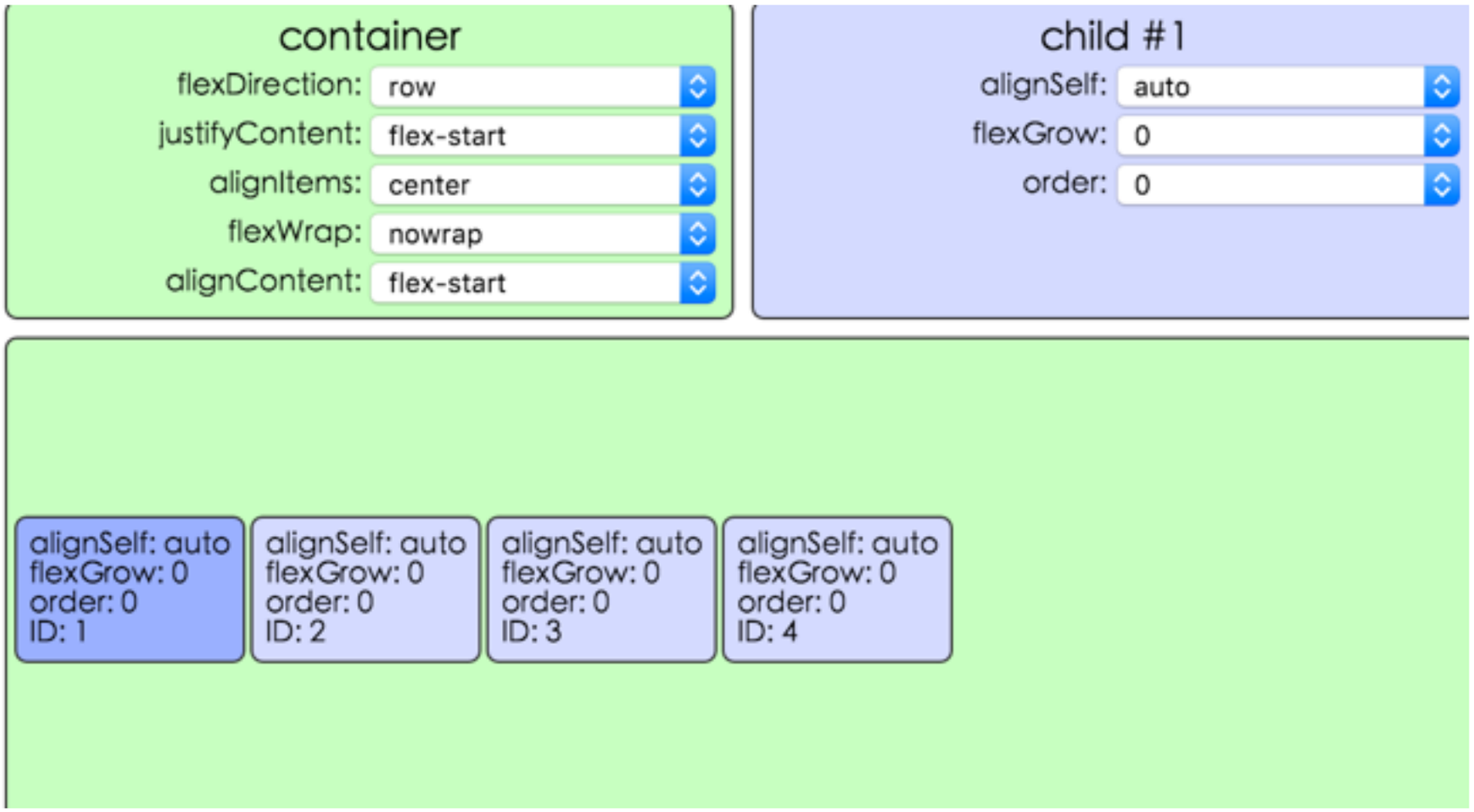
ref 实例

```
<View  style={styles.topcontainer}>
  <Modal
    ref="passwordModal"
    animated={this.state.animated}
    transparent={this.state.transparent}
    visible={this.state.paymentPassModalVisible}>
    <View style={[styles.modalContainer, modalBackgroundStyle]}>
      <View style={[styles.paymentInnerContainer, innerContainerTranspa
        <Text style={styles.modalTitle}>New Payment Password</Text>
        <View style={styles.modeTopSeparator} />
        <Text style={styles.modalDescription}>Type in new password to c
        <PasswordInput parent={this.refs.passwordModal} onComplete={this
      </View>
    </View>
  </Modal>
```

布局

Flex Layout

http://blog.krawaller.se/posts/a-react-app-demonstrating-css3-flexbox/

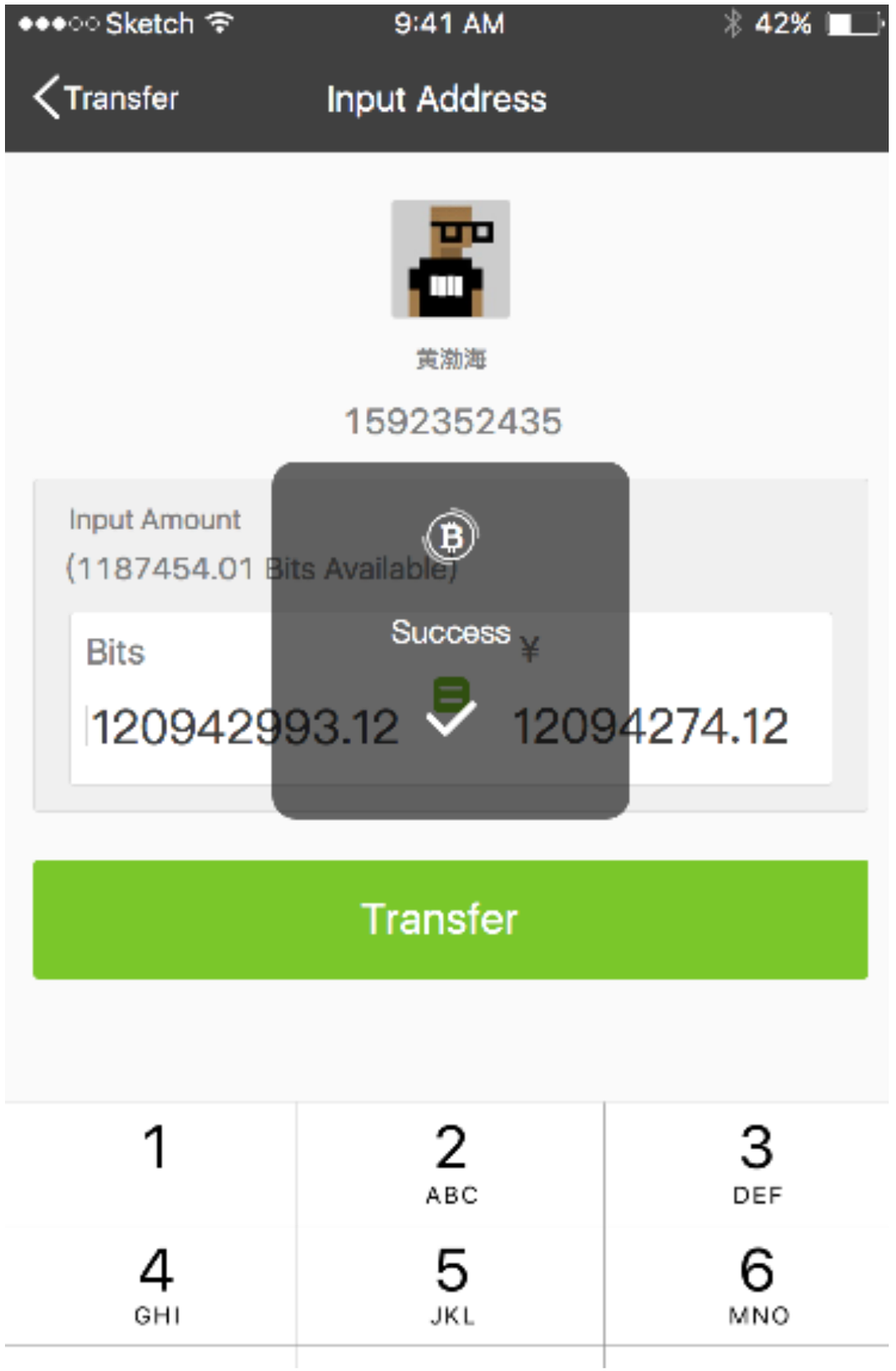


几点

若是平均间隔和宽度的尽量用space-between或者space-around

rn flex是react flex的一个子集，不支持alignContent等属性.

flex:1可以铺满，不要用marginBottom:10000



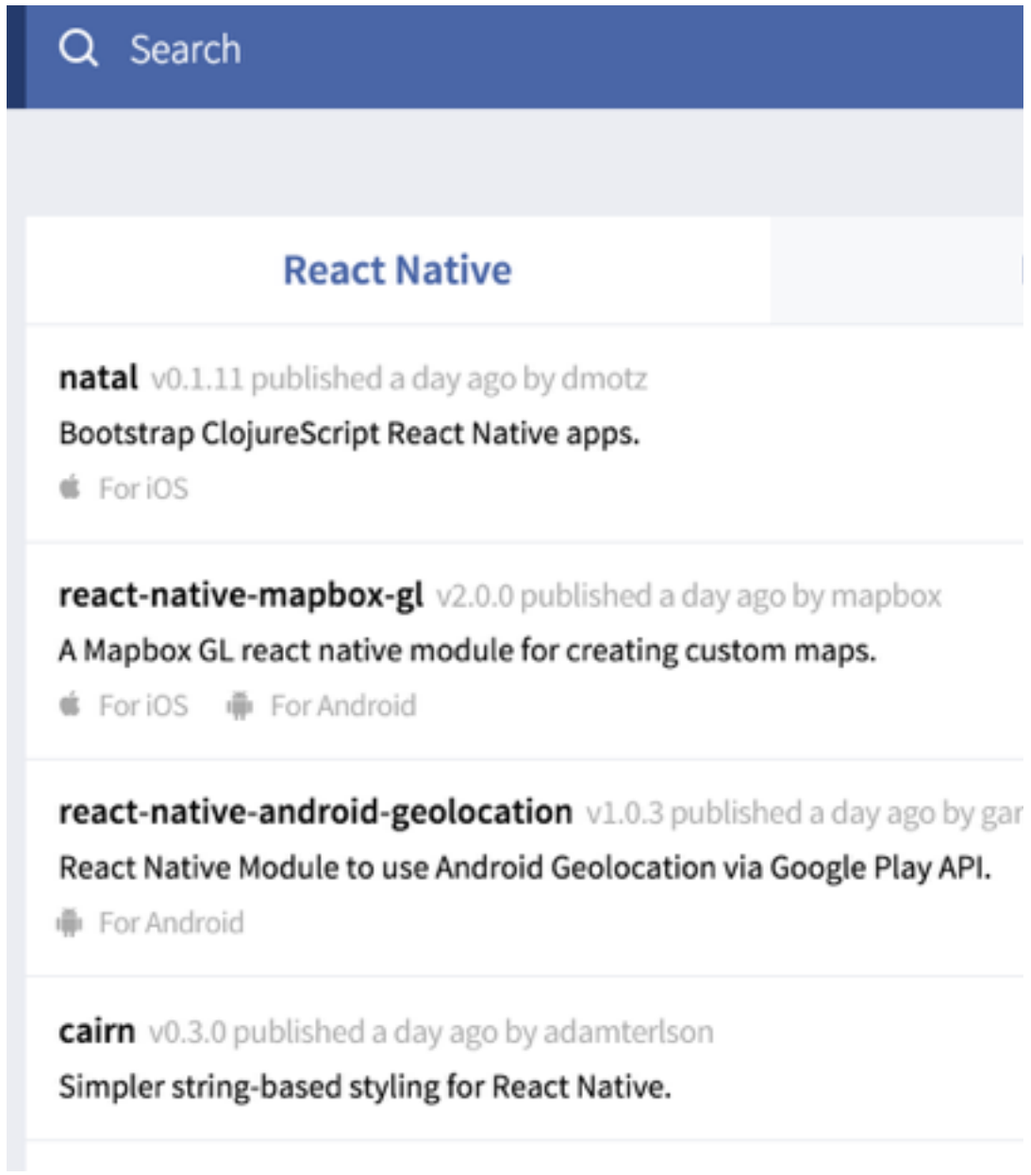
style=[styles.container, {xx:yy,mm:nn}]

```
class Cell extends Component {
  render() {
    return (
      <View style={[styles.containerRow,{height:30}]}>
        <View style={styles.leftContainer}>
          <View>
            <Text style={styles.rowText}>{this.props.item.name}</Text>
          </View>

          <View>
            <Text style={styles.rowText}>{this.props.item.code}</Text>
          </View>
        </View>

      </View>
    );
  }
}
```

编写iOS组件

第三方组件

https://react.parts/native



编写iOS端

In Xcode, use File > New > File... to create a new Cocoa Touch class that extends NSObject.

```m
//  SomeString.m
#import "SomeString.h"

@implementation SomeString

RCT_EXPORT_MODULE();

RCT_EXPORT_METHOD(get:(RCTResponseSenderBlock)callback)
{
  // Change this depending on what you want to retrieve:
  NSString* someString = @"something";

  callback(@[someString]);
}

@end
```

rn组件的callback

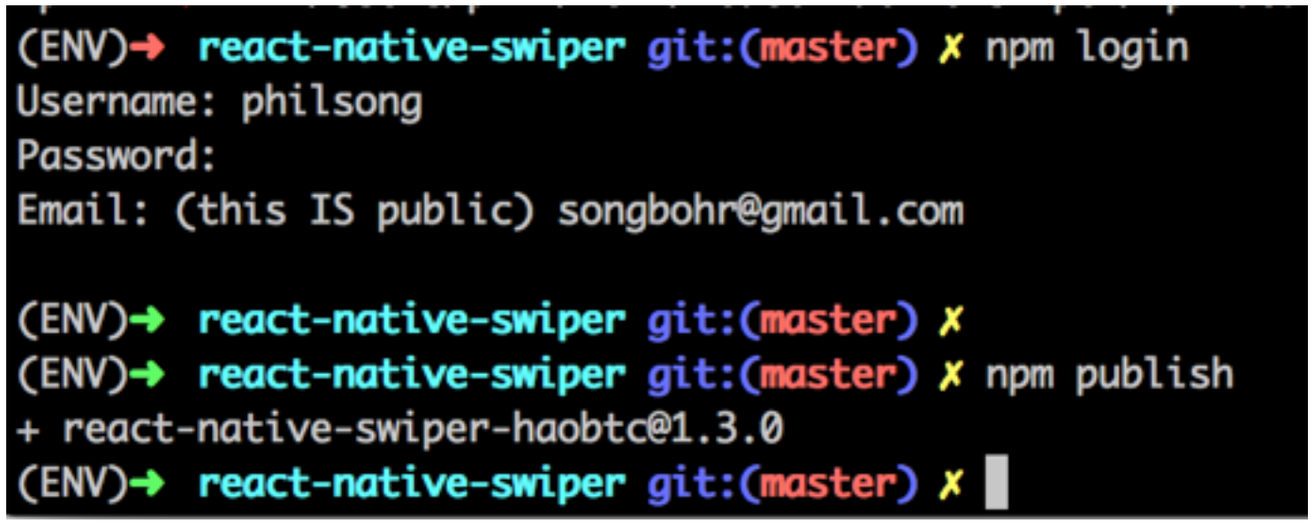
```objc
#import "React_native_qr_decoder.h"
#import <UIKit/UIKit.h>
#import "RCTBridge.h"
#import "RCTLog.h"
#import "RCTUtils.h"
#import "RCTEventDispatcher.h"

@implementation React_native_qr_decoder

RCT_EXPORT_MODULE();

RCT_EXPORT_METHOD(get:(NSString *)path callback:(RCTResponseSenderBlock)callback)
{
    // Change this depending on what you want to retrieve:
    NSString* qrcodeImage = path;
    NSLog(@"qrcodeImage: %@", qrcodeImage);

    UIImage *srcImage = [[UIImage alloc] initWithContentsOfFile:qrcodeImage];
    if (nil==srcImage){
        NSLog(@"PROBLEM! IMAGE NOT LOADED\n");
        callback(@[RCTMakeError(@"IMAGE NOT LOADED!", nil, nil)]);
        return;
    }else
        NSLog(@"OK - IMAGE LOADED\n");
    // [srcImage release];

    NSDictionary *detectorOptions = @{@"CIDetectorAccuracy": @"CIDetectorAccuracyHigh"};
    CIDetector *detector = [CIDetector detectorOfType:CIDetectorTypeQRCode context:nil options:detectorOptions];
    CIImage *image = [CIImage imageWithCGImage:srcImage.CGImage];
    NSArray *features = [detector featuresInImage:image];
    NSLog(@"Feature size: %d", features.count);
    if (0==features.count){
        NSLog(@"PROBLEM! Feature size is zero!\n");
        callback(@[RCTMakeError(@"Feature size is zero!", nil, nil)]);
        return;
    }

    CIQRCodeFeature *feature = [features firstObject];
```

rn调用组件

```
var ss = require('NativeModules').SomeString;


ss.get(someString => {
    console.log(someString);
});
```

发布组件

$ npm adduser
用于在npmjs.com注册一个用户。
$ npm login
$ npm publish



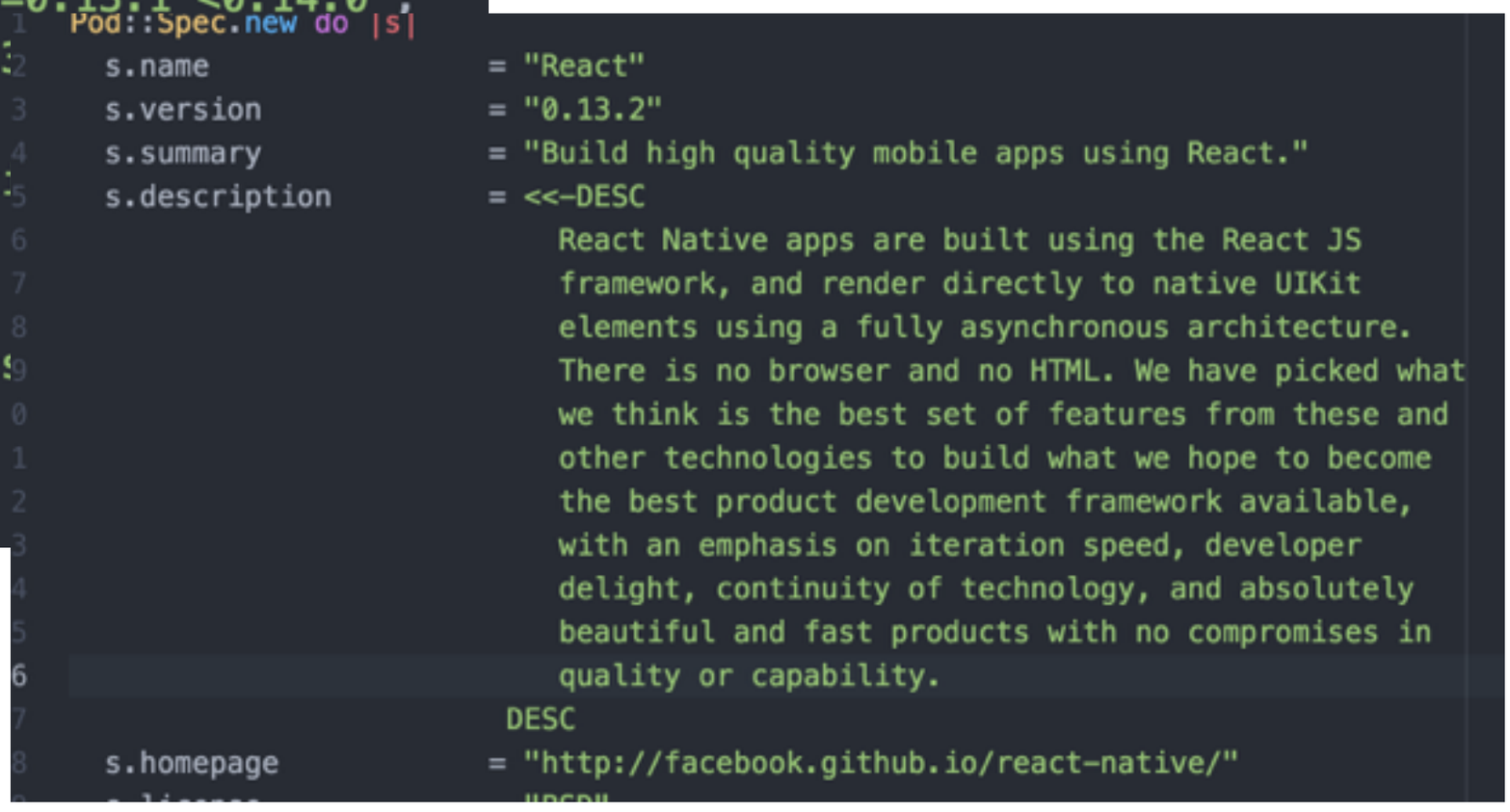
https://www.npmjs.com/package/react-native-qr-decoder

https://www.npmjs.com/~philsong

注意的几点问题

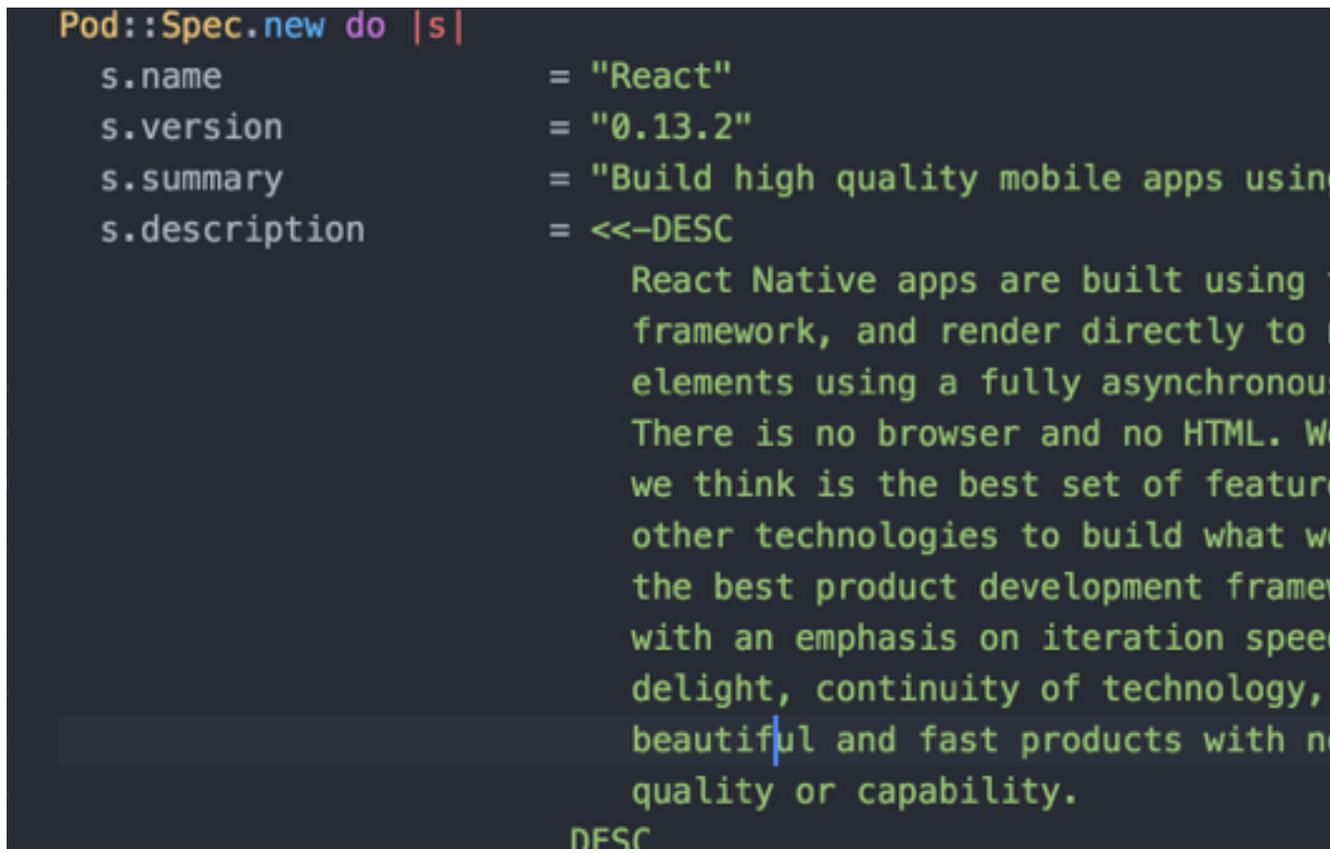
RN版本问题


{
"_args": [
[
"react-native@^0.13.1",
"/Users/phil/work/haobtc/Messenger"
]
],
"_from": "react-native@>=0.13.1 <0.14.0",
"_id": "react-native@0.1
"_inCache": true,
"_location": "/react-nat
"_nodeVersion": "4.1.2",
"_npmUser": {
"email": "ide+npm@jame
"name": "ide"
},


Pod::Spec.new do |s|
s.name = "React"
s.version = "0.13.2"
s.summary = "Build high quality mobile apps using React."
s.description = <<-DESC
React Native apps are built using the React JS
framework, and render directly to native UIKit
elements using a fully asynchronous architecture.
There is no browser and no HTML. We have picked what
we think is the best set of features from these and
other technologies to build what we hope to become
the best product development framework available,
with an emphasis on iteration speed, developer
delight, continuity of technology, and absolutely
beautiful and fast products with no compromises in
quality or capability.
DESC
s.homepage = "http://facebook.github.io/react-native/"

RN版本问题


main.cpp
Find Results
package.json
{
"name": "react-native",
"version": "0.12.0",
"description": "A framework for building native a
"license": "BSD-3-Clause",
"repository": {
"type": "git",
"url": "git@github.com:facebook/react-native.gi
},
"engines": {
"node": ">=4"
},
"jest": {
"scriptPreprocessor": "jestSupport/preprocessor
"setupEnvScriptFile": "jestSupport/env.js",
"moduleNameMapper": {
"^image![a-zA-Z0-9$_-]+$": "GlobalImageStub",
"^[./a-zA-Z0-9$_-]+\\.png$": "RelativeImageSt
},
"testPathIgnorePatterns": [
"/node_modules/"
],
"testFileExtensions": [
"js"
],
"unmockedModulePathPatterns": [
"promise",
"source-map"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There is no browser and no HTML. W
we think is the best set of featur
other technologies to build what w
the best product development frame
with an emphasis on iteration spee
delight, continuity of technology,
beautiful and fast products with n
quality or capability.
DESC

组件升级

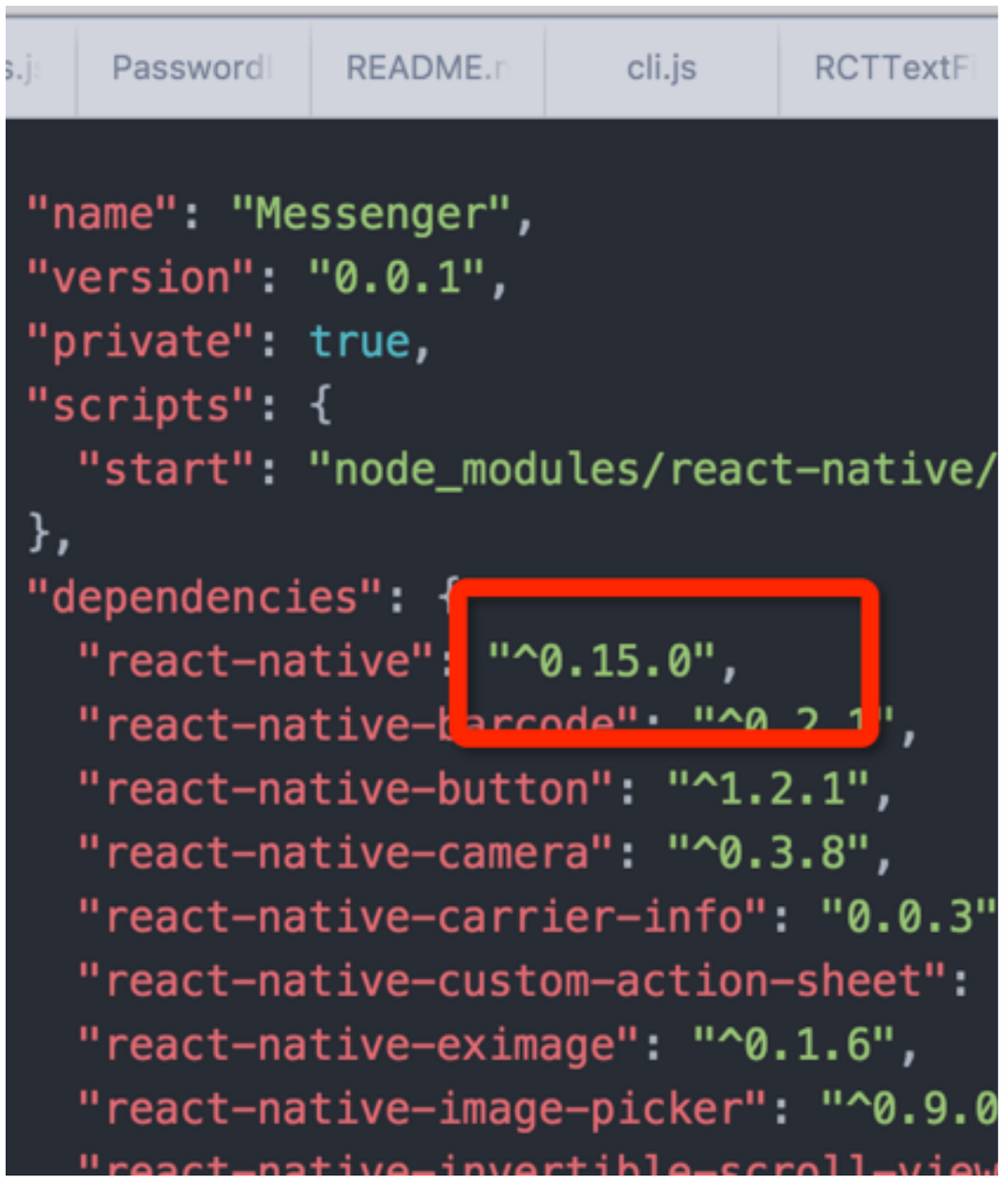
https://www.npmjs.com/package/react-native

package.son 修改成最新版本号

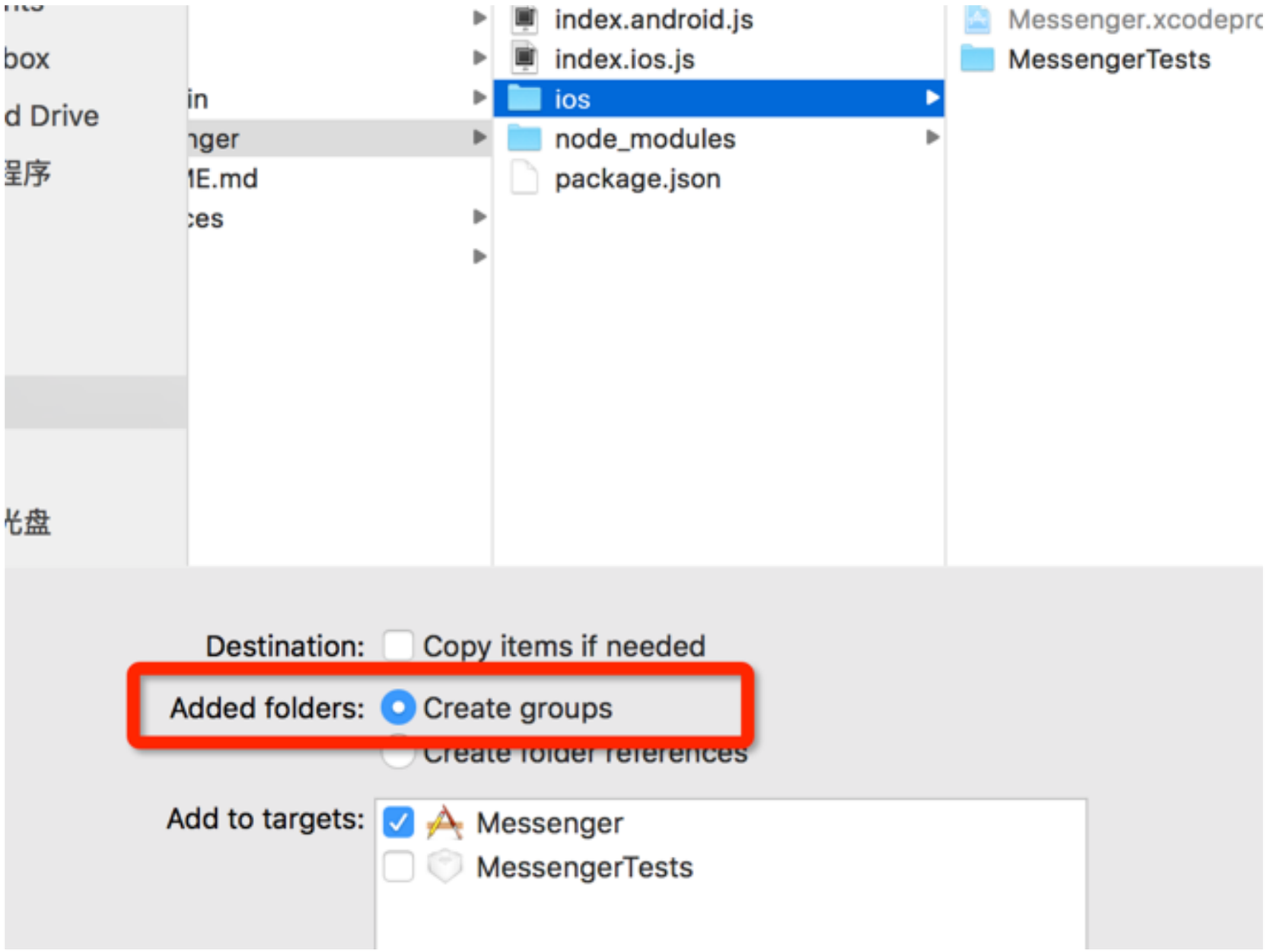
$ npm install

同时升级react-native init的模版

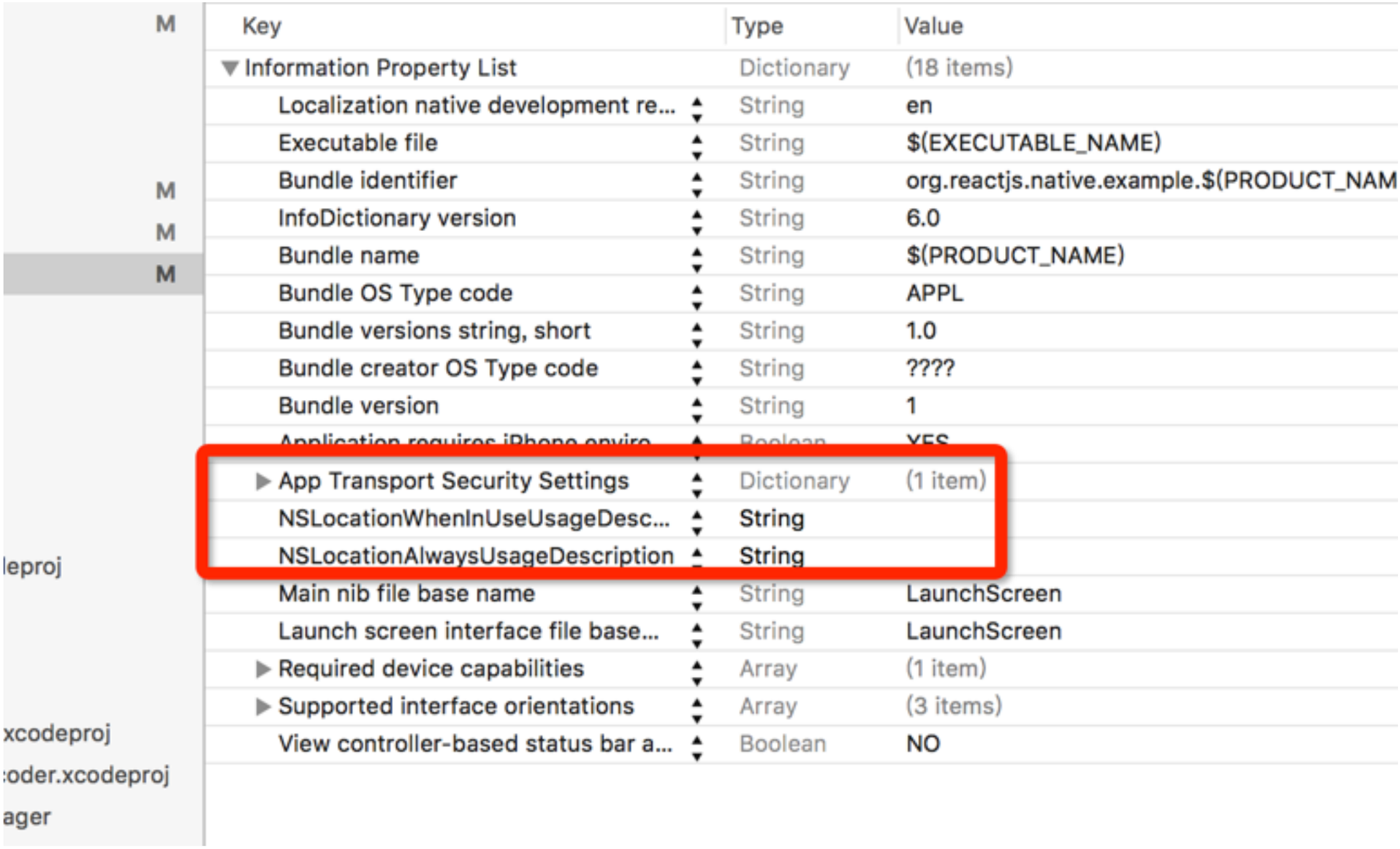
$ react-native upgrade



源码组件添加


box
d Drive
程序
光盘
in
nger
IE.md
ces
index.android.js
index.ios.js
ios
node_modules
package.json
Messenger.xcodeproj
MessengerTests
Destination:
Copy items if needed
Added folders:
Create groups
Create folder references
Add to targets:
Messenger
MessengerTests

info.list

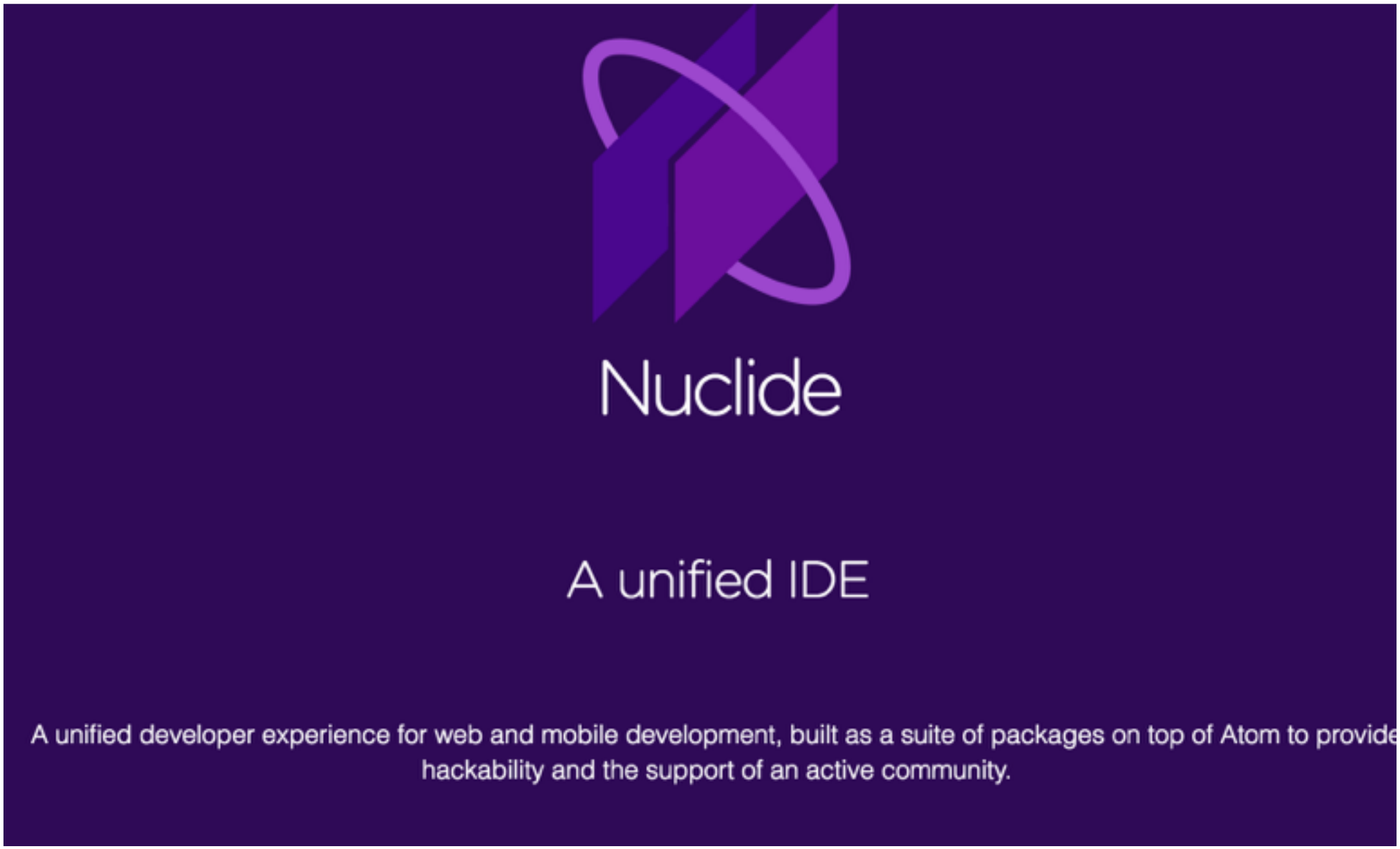

M
Key
Type
Value
Information Property List
Dictionary
(18 items)
Localization native development re...
String
en
Executable file
String
$(EXECUTABLE_NAME)
Bundle identifier
String
org.reactjs.native.example.$(PRODUCT_NAM
InfoDictionary version
String
6.0
Bundle name
String
$(PRODUCT_NAME)
Bundle OS Type code
String
APPL
Bundle versions string, short
String
1.0
Bundle creator OS Type code
String
????
Bundle version
String
1
App Transport Security Settings
Dictionary
(1 item)
NSLocationWhenInUseUsageDesc...
String
NSLocationAlwaysUsageDescription
String
Main nib file base name
String
LaunchScreen
Launch screen interface file base...
String
LaunchScreen
Required device capabilities
Array
(1 item)
Supported interface orientations
Array
(3 items)
View controller-based status bar a...
Boolean
NO

Location 反查服务

原理是向谷歌服务器请求的，由谷歌服务器完成这个这个命令，但是谷歌服务器会做一个判断，60s内不能进行重复的请求，如果重复请求的次数过多，谷歌会认为你是在测试，这样谷歌回终止你的服务.

```
Runtime/PBRequester.m:807 server (https://
gsp13-cn.ls.apple.com/localshift) returned
error: 503
/BuildRoot/Library/Caches/com.apple.xbs/
Sources/ProtocolBuffer/ProtocolBuffer-242/
Runtime/PBRequester.m:807 server (https://
gsp13-cn.ls.apple.com/localshift) returned
error: 503
/BuildRoot/Library/Caches/com.apple.xbs/
Sources/ProtocolBuffer/ProtocolBuffer-242/
Runtime/PBRequester.m:807 server (https://
gsp13-cn.ls.apple.com/localshift) returned
error: 504
/BuildRoot/Library/Caches/com.apple.xbs/
Sources/ProtocolBuffer/ProtocolBuffer-242/
```

SVGeocoder http://samvermette.com/164



rn 编辑器Atom

apm install nuclide-installer

http://nuclide.io

Questions?

Thanks