Cheatography

Development environment Set-up		
Ехро	 <i>C</i> For beginners Simplifies the setup process Provides OTA updates Does not allow you to add custom native code Expo apps tend to have larger sizes 	
React Native CLI	 For Experienced Developers Supports integrating custom native modules Potentially better performance for complex applications Requires Xcode or Android Studio to get started. No OTA updates. 	

Creating an app

Initialize a new project	npx	create	-ex	po-app	my-app
Start development server	cd my-app				
	npm	start			

Running app	
Android	Use the Expo Go app to scan the QR code from your terminal to open your project.
iPhone	Use the built-in QR code scanner of the default iOS Camera app.
Conne	ect to the same wireless network as your computer.

Metro

A When you run your app, the Expo CLI starts Metro Bundler. It's a JavaScript bundler that takes all your JavaScript files and assets, bundles them, and transforms them using Babel. This process converts the code into a format that can be executed by the platform running the app (iOS or Android).

Ехро	
Ехро	A set of tools and services to make development with React Native easier.
Expo SDK	A modular set of packages that provides access that provides access to native APIs, like Camera or Notificat- ions.
Expo CLI	A command-line tool that is the primary interface between a developer and other Expo tools.
Expo Go	An open-source sandbox app you can download on your phone to view your app in development.
Expo Snack	A web-based playground where you can write React Native snippets and run them in the browser.
Expo Tunnel	For establishing a connection that allows devices to access the app even if they're not on the same wireless network. npx expo starttunnel

Finding Libraries

B React Native Directory is a searchable database of libraries built specifically for React Native.

By Bochrak

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```
StyleSheet
                                                              useWindowDimensions Hook
▲ An abstraction similar to CSS StyleSheets.
                                                              ▲ Used to get the dimensions of the device window.
                                                              ▲ It returns an object containing the window's width and height.
▲ Declare styles in a structured and optimized manner.
▲ You can use an array of styles to combine multiple style objects-
                                                              ▲ Useful for creating responsive designs and layouts that adapt to diffe
the last style in the array has precedence, or mix predefined styles
                                                              screen sizes.
with inline styles.
                                                              import React from 'react';
▲ All of the core components accept a prop named style.
                                                              import
import React from 'react';
                                                              {View, StyleS heet, Text, useWindowDimensions}
import {Style Sheet, Text, View} from 'react-native'
                                                              from 'react-native';
;
                                                              const App = () => {
const App = () => (
                                                              const {height,width,scale,fontScale}=useWindowDimens:
<View style={styles.container}>
                                                              return (
<Text style= {[s tyl es.b as eText, styles.boldText]
                                                              <View style={styles.container}>
1 } >
                                                                <Te xt> Window Dimension Data</Text>
    This is bold and black text
                                                                <Te xt> Height: {height} </Text>
 </Text>
                                                                <Te xt> Width: {width}</Text>
<Text style= {[s tyl es.b as eText, { color: 'blue'
                                                                <Te xt>Font scale: {fontScale}</Text>
 }]}>
                                                                <Te xt> Pixel ratio: {scale}</Text>
     This is blue and normal weight text
                                                              </View>
  </Text>
                                                                  );
</View>
                                                              };
);
                                                              const styles = StyleSheet.create(
const styles = StyleS hee t.c reate({
                                                                   container: {
container: { flex: 1,
                                                                     flex: 1,
               padding: 24,
                                                                     justif yCo ntent: 'center',
               backgr oun dColor: '#eaeaea' },
                                                                     alignI tems: 'center'},
baseText: { fontSize: 16,
                                                                     });
                     color: 'black' },
                                                              export default App;
        boldText: { fontWe ight: 'bold' }
  }
                                                              Button
);
                                                              ▲ A basic button component that should render on any platform.
```

export default App;

Cheatography

UseColorScheme Hook

Pressable

return (

158 4"/> </View>);

};

▲ Supports a minimal level of customization.

import { View, Button } from 'react -na tive';

const handle Press = () => {conso le.l og ('B utton p

<Button title= " Click Me" onPres s={ han dle Press}

import React from 'react';

const Exampl eButton = () => {

▲ Provides and subscribes to color scheme updates from the appearance module in react native.

▲ It returns the current color scheme preference of the user's device.

```
▲ Supported color schemes: "light", "dark", null.
import React from 'react';
import
{Text, StyleS heet, useCol orS cheme, View}
from 'react-native';
const App = () => {
const colorS cheme = useColorScheme();
return (
<View style={styles.container}>
  <Te xt> use Col orS che me(): {colorScheme}</Text
>
</View>
    );
};
const styles = StyleSheet.create({
     container: {
       flex: 1,
       alignI tems: 'center',
       justif yCo ntent: 'cente r'}});
export default App;
```

▲ Used for users press interactions.

▲ Detects various stages of press interactions on any of its child components.

▲ Highly customizable and flexible way to handle touch-based input.

▲ Inherits all the styles of the View component.

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React Native Cheat Sheet by Bochrak via cheatography.com/200241/cs/42327/

Pressable (cont)	Stack Navigator
<pre>import React from 'react';</pre>	▲ Allows transition between screens where each new screen is
<pre>import { Pressable, Text } from 'react-native';</pre>	placed on top of a stack.
const Exampl ePr essable = () => {	▲ NavigationContainer: Component container for your app's
return (navigation structure.
<pressable on<br="">Pres s={() => consol e.l og('Pr ess ed!'</pressable>) } Manages the navigation tree and contains the navigation state.
<pre>style={({ pressed }) => [</pre>	Should be only used once in your app at the root.
{backg rou ndC olor: pressed ? 'light sky blue' :	14 streateNativeStackNavigator: Function that returns an object
y'},	containing two properties.
<pre>{padding: 10, alignI tems: 'center' }]}</pre>	• Navigator: Takes Screen elements as its children to define the
hitSlop={{top: 10, bottom: 10, left: 10, right: 10	ponfiguration for routes.
<pre>pressRetentionOffset={{top: 20, bottom: 20, left: 3</pre>	2 initialRouteName: prop for the Navigator specify what the initial route
<te xt=""> Press Me</te>	in a stack is.
	screenOptions: prop to Navigator to specify common options.
);	Screen: Component takes 2 required props name and
};	component.
export default Exampl ePr ess able;	name: prop which refers to the name of the route.
	component: prop which specifies the component to render for the
onPressin: method called when a press is activated	route.
• on PressOut: method called when the press desture is deactivated.	options: prop to Screen to specify screen-specific options.
O onl ongPress: method called when user leaves their finger longer than	navigation and route props: are automatically provided to each
econds before removing it customize this time period using the delayl on	screen component by the navigator.
P pressed: state that refers to a boolean value provided to the style and	navigation: prop is available to all screen components and allows
functions of Pressable, to check if component is being pressed.	you to control navigation actions.
• hitSlop: prop to increase the area where touch gestures are recognized	route: prop contains information about the route, including d. (extended
interactive area "HitRect").	parameters passed to that screen.
pressRetentionOffset: prop to specify the area in which the touch can a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area in which the touch can be a property of the area.	You can read the params through route.params inside a screen.
maintaining the press's active state. ("PressRect").	Params should contain the minimal data required to show a screen.

Navigation

React Navigation

- ▲ React Native does not come with built-in navigation capabilities.
- → React Navigation is the most popular third-party library.
- ▲ Enable developers to implement various navigation patterns.
- ▲ Provides a set of navigators, such as stack, tab, and drawer

navigators.



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```
Stack Navigator (cont)
                                                               Drawer Navigator (cont)
                                                                ▲ drawerContent: prop in the Drawer Navigator that allows you to prov
import * as React from 'react';
                                                                ▲ CustomDrawerContent: refer to a user-defined React component that
import { View, Text, Button } from 'react-native';
                                                                ▲ DrawerItem: in a custom drawer allows for more flexibility and custor
import { create Sta ckN avi gator } from '@react-navigation/stack';
import { Naviga tio nCo ntainer } from '@react-navigation/native';
                                                                import { View, Text} from 'react-native';
const HomeScreen = ({ navigation }) => {
                                                               import { Naviga tio nCo ntainer } from '@react-naviga
return (
import { create Dra wer Nav igator } from '@react-nav
<View style={{ flex: 1, alignI tems: 'center', justif yCo ntent: 'center' }}>
                                                                function Custom Dra wer Con tent() {
<Te xt>Home Screen</Text>
                                                               return (
  <Button title= "Go to Detail s"
                                                               <DrawerContentScrollView {...props}>
t cite' { someParam: 'Hello!' }) /
          onPres s={() => naviga tio n.n avi gat e(' Det
                                                                    ls', { someParam: 'Hello
<Te xt> Welcome </Text>
</View>
                                                                    <Dr awe rIt emList {...props} />
);
                                                                    <Dr awe rItem label= " Hel p" onPres s={() => ale
};
                                                               </DrawerContentScrollView>
const Detail sScreen = ({ route }) => {
                                                                );
return (
<View style={{ flex: 1, alignI tems: 'center', justif yco ntent: 'center' }}?
                                                                function HomeSc reen() {
                                                                                            // ... }
<Te xt> Details Screen</Text>
                                                               function Notifi cat ion sSc reen() {
                                                                                                            // ... }
 <Te xt> Par ameter: {route.params.someParam}</Text>
                                                               const Drawer = createDrawerNavigator();
</View>
                                                               function App() {
);
                                                               return (
};
                                                               <NavigationContainer>
const Stack = createStackNavigator();
                                                                 <Dr awe r.N avi gator initialRouteName="Home"
function App() {
                                                                                       screenOptions={{drawerPosition:
return (
                                                                               drawer Con ten t={ props => <Cu sto mDi
<NavigationContainer>
                                                                     <Dr awe r.S creen name="H ome " compon ent ={H of</pre>
  <St ack.Na vigator initialRouteName="Home"
              wer.Navigator>
<St ack.Screen name="H ome " compon ent ={H ome Screen} options={{ title: 'My Home' }} />
    </NavigationContainer>
<St ack.Screen name="D eta ils " compon ent ={D eta ils Screen} options={{ title: 'Detail Vie</pre>
                                                                    );
w' }} />
   </S tac k.N avi gat or>
                                                               export default App;
</NavigationContainer>
                                                                A The following are also available:
);
                                                                navigation. jumpTo('RouteName'): go to a specific screen in the draw
}
                                                                O navigation. openDrawer: open the drawer.
export default App;
                                                                navigation.closeDrawer: close the drawer.
A Navigation actions:
                                                                navigation.toggleDrawer: toggle the state, ie. switch from closed to c
O navigation.navigate('RouteName'): Pushes a new route to the native stack navigator if it's not already in the stack
                                                               an error in the development mode and will not show
If you navigate to a route that is not defined in the navigator, it will print
errors in production mode.
• navigation.push('RouteName'): Used to navigate to a screen in the stack navigator, adding a new route to the navigation
                                                                ▲ Can be tabs on the bottom of the screen or on the top below the
regardless of the existing navigation history.
navigation.goBack(): Is used to programmatically go back to the previous service.
• navigation.popToTop(): Used to go back to the first screen in the stack. A Bottom tab navigation: A simple tab bar on the bottom of the
                                                               screen that lets you switch between different routes.
Drawer Navigator

    Routes are lazily initialized -- their screen components are not

                                                               mounted until they are first focused.
```

▲ Renders a navigation drawer on the side of the screen which can be opened and closed via gestures.

▲ You cannot use the useNavigation hook inside the drawerContent since useNavigation is only available inside screens. You get a navigation prop for your drawerContent which you can use instead.

▲ drawerPosition: prop typically set in the screenOptions to specify the position of the drawer, such as left or right.



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Tab Navigator (cont) Text A You cannot use the useNavigation hook inside the tabBar since useNavigation book inside tabBar si screens. You get a navigation prop for your tabBar which you can use instead. Supports nesting, styling, and touch handling. ▲ Everything inside it is no longer using the Flexbox layout but using text layout. import React from 'react'; ▲ Elements inside it are no longer rectangles, but wrap at the end import { View, Text } from 'react-native'; import { Naviga tio nCo ntainer } from '@react-navigation/native'; import { create Bot tom Tab Nav igator } from '@react-nates Bot tom Tab Nav igator } import { Text } from 'react-native'; ; import Ionicons from 'react -na tiv e-v ect or- ico ns/ consticent eText = () => { return (const HomeScreen = () => { <Text style={{ fontSize: 18, color: 'blue' }}> return(Hello, this is a Text component! <View> </Text> <Te xt>Home Screen</Text>); </View> };) export default Exampl eText; }; const Settin gsS creen = () => { A You must wrap all the text nodes inside of a <Text> component return(Will raise exception <View> <Vi ew> Some text </V iew> <Te xt> Set tings Screen</Text></View> Correct) <View> } <Text> Some text </Text> const Tab = createBottomTabNavigator(); </View> function App() { • Text container: Text will be inline if the space allow it, otherwise, return (text will flow as if it was one. <NavigationContainer> <Text> <Ta b.N avi gator screen Opt ion s={({ route }) => ({ <Text>First part and </Text> tabBar Icon: ({ focused, color, size }) => { <Text>second part</Text> let iconName: </Text> if (route.name === 'Home') { First part and second part iconName = focused ? 'ios-home' : 'ios-home-outline • View container: } else if (route.name === 'Setti ngs') { Each text is its own block, otherwise, the text will flow in its own ing s-o utl ine'; block. iconName = focused ? 'ios-s ett ings' : 'ios-s ett return <Io nicons name={ ico nName} size={ size} color= {color} />; }, } $) \} >$ <Text>First part and </Text> <Ta b.S creen name="H ome " compon ent ={H ome Screen} /> <Text>second part</Text> <Ta b.S creen name="S ett ing s" compon ent ={S ett ing sSc reen} />
</View> </Tab.Navigator> First part and </NavigationContainer> second part); } **ScrollView** export default App; Creates a scrollable area when content exceeds screen's **A** The following are also available: physical limits. • navigation.jumpTo('RouteName'): is a method that directly switches to a specified screen within the components and views. tab navigator. ▲ Can be scrolled vertically or horizontally. ▲ Must have a bounded height in order to work. View

Renders all its react child components at once.

▲ A container that supports layout with flexbox, style, some touch handling, and accessibility controls.

▲ Like a <div> in HTML.

▲ Designed to be nested inside other views and can have 0 to many children of any type.



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ScrollView (cont)	SectionList
<pre>import React from 'react'; import { Scroll View, Text, View } from 'react-native' const Exampl eSc rol lView = () => { return (<scrollview "}<="" indica="" ite="" le='{"wh' pre="" sty="" tor=""></scrollview></pre>	 Used for rendering large lists with section headers. Uses lazy rendering to achieve faster rendering. Inherits the props of the ScrollView component. Internal state is not preserved when content scrolls out of the render Provides support for section headers and section separators.
<pre>style={{ flex: 1 }} horizo nta l={ tru e}> {/ horizontal scrol <te xt="">Item 1<!-- Tex t--> {/ Repeat more components for</te></pre>	<pre>import React from 'react'; limpo/rt { Sectio nList, Text, View } from 'react-nativ monstiEensupl}ese cti onList = () => {</pre>
	<pre>const sections = [{ title: 'Section 1', data: ['Iter</pre>
); }; export default Exampl eSc rol lView;	<pre>return (<sectionlist ctions}<="" ns="{se" pre="" sectio=""></sectionlist></pre>
 A Performance Issues with Large Lists: Slow rendering times for large lists. A Memory Consumption: Consume a significant amount of memory 	<pre>render Ite m={({ item }) => <te xt=""> {it em} <, render Sec tio nHe ade r={({ section }) => <te } }</te </te></pre>
with large lists or complex item views.	<pre>keyExt rac tor ={(item, index) => item + inde); };</pre>
 Used to efficiently render long lists. Offers features like pull-to-refresh, infinite scrolling, and easy item sep Lazy rendering: renders items only when they appear on the screen are user scrolls away from them. Internal state is not preserved when content scrolls out of the render was an area of the screen area. 	export default Exampl eSe cti onList; arthortwo required props: and @sectionsections the list of items to display, a @renderItem: method which acts as the default renderer for every item wintenderSectionHeader: prop, render each section's header.
▲ Inherits the props of the ScrollView component.	TextInput

import React from 'react';		
<pre>import { FlatList, Text, View } from 'react-native';</pre>	▲ Used for inputting text into the app via a keyboard.	
const Exampl eFl atList = () => {	<pre>import React, { useState } from 'react';</pre>	
<pre>const data = [{ id: '1', name: 'Item 1' }, { id: '2', n</pre>	namportItemextIhbut } from 'react-native';	
return (const Exampl eTe xtInput = () => {	
<pre><fl atlist="" data="{data}</pre"></fl></pre>	<pre>const [input Value, setInp utV alue] = useState('');</pre>	
render Ite m={({ item }) => <text>{item.name}</text>		
<pre>keyExt rac tor ={item => item.id} /></pre>	<textinput put="" td="" value="{in" value}<=""></textinput>	
);	onChan geT ext ={text => setInp utV alu e(t ext)	
};	placeh old er= " Enter text here"	
export default Exampl eFl atList;	<pre>style={{ height: 40, border Width: 1, margin: 10</pre>	
A Two required props:	>	
Odata: accepts a plain array that contains the list of items to display.);	
• renderItem: a function that goes over each item in the array and renders it into the list.		

keyExtractor: It instructs the list to use the id of each item as React keys instead of the default key ample Te xtI nput; property.

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Image

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```
▲ Used for displaying different types of images,
network images, static resources, temporary local images,
and images from local disk, such as the camera roll.

    You can also add style to an image.

import React from 'react';
import { Image } from 'react-native';
const Exampl eImage = () => {
return (
  \langle \rangle
{ / Remote Image / }
<Image source={{ uri: 'https :// exa mpl e.c om/ ima ge.j
pg' }}
        style={{ width: 200, height: 200 }}
       resize Mod e="c ont ain " />
{/ Local Image /}
<Image source={require('./path-to-your-local-image.png')}
        style={{ width: 200, height: 200 }}
       resize Mod e="c ove r" />
   </>
   );
};
export default Exampl eImage;
resizeMode :
O'cover': Scales image to fill the container, maintaining its aspect ratio.
O'contain': Scales image to fit inside the container, maintain the image's
aspect ratio ensuring the entire image is visible.
```

O'stretch': Stretches image to fill the container, possibly distorting the aspect ratio.

O'center': Centers image in the container without scaling. 'repeat': Repeats the image to cover the container.

▲ For network and data images, you must specify the dimensions of the image.



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