



Universidad Politécnica de Madrid

React Native

Navegadores

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- Permite transición entre pantallas de modo que cada nueva pantalla se coloca encima de una **pila**
- Basado en **rutas**
 - Las **rutas** son objetos que contienen **información sobre una pantalla** (componente de React, título, estilo, ...) con el objetivo de permitir su renderización
- **Configurable**: rutas y opciones de visualización generales
 - Cada pantalla puede tener sus propias opciones de navegación y visualización
- Documentación:
<https://reactnavigation.org/docs/getting-started/>

App.js

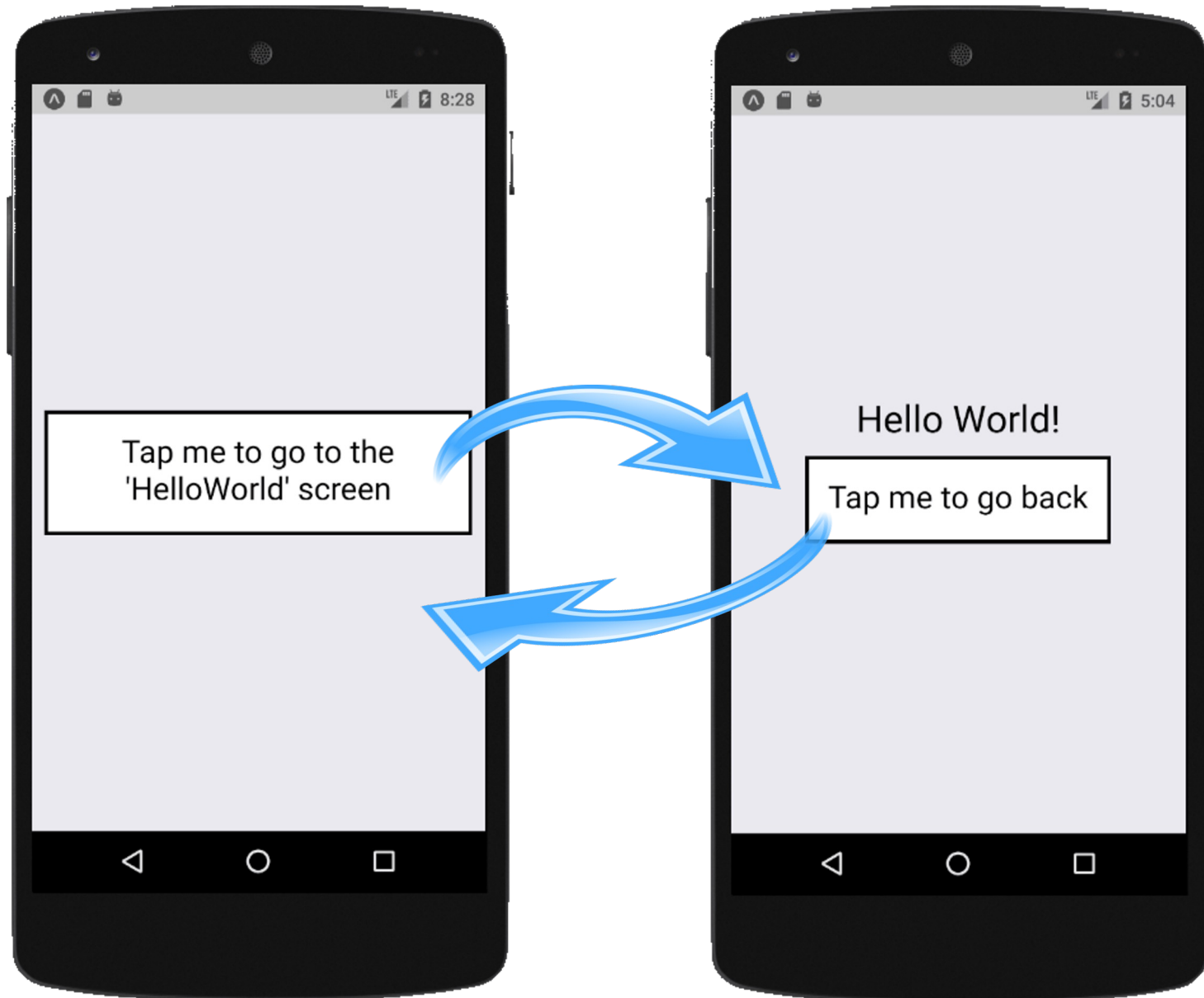
```
import React from 'react';
import { NavigationContainer } from '@react-navigation/native';
import { createNativeStackNavigator } from '@react-navigation/native-stack';

import IndexScreen from './index_screen';

const Stack = createNativeStackNavigator();

export default function App() {
  return (
    <NavigationContainer>
      <Stack.Navigator>
        <Stack.Screen name="Home" component={IndexScreen} />
      </Stack.Navigator>
    </NavigationContainer>
  );
}
```

StackNavigator: navegación



App.js

```
import React from 'react';
import { NavigationContainer } from '@react-navigation/native';
import { createNativeStackNavigator } from '@react-navigation/native-stack';
import IndexScreen from './index_screen';
import HelloWorldScreen from './hello_world_screen';

const Stack = createNativeStackNavigator();

export default function App() {
  return (
    <NavigationContainer>
      <Stack.Navigator initialRouteName="Home">
        <Stack.Screen name="Home" component={IndexScreen} />
        <Stack.Screen name="HelloWorld" component={HelloWorldScreen} />
      </Stack.Navigator>
    </NavigationContainer>

  );
}
```

index_screen.js

```
import React from 'react';
import { View, Button } from 'react-native';

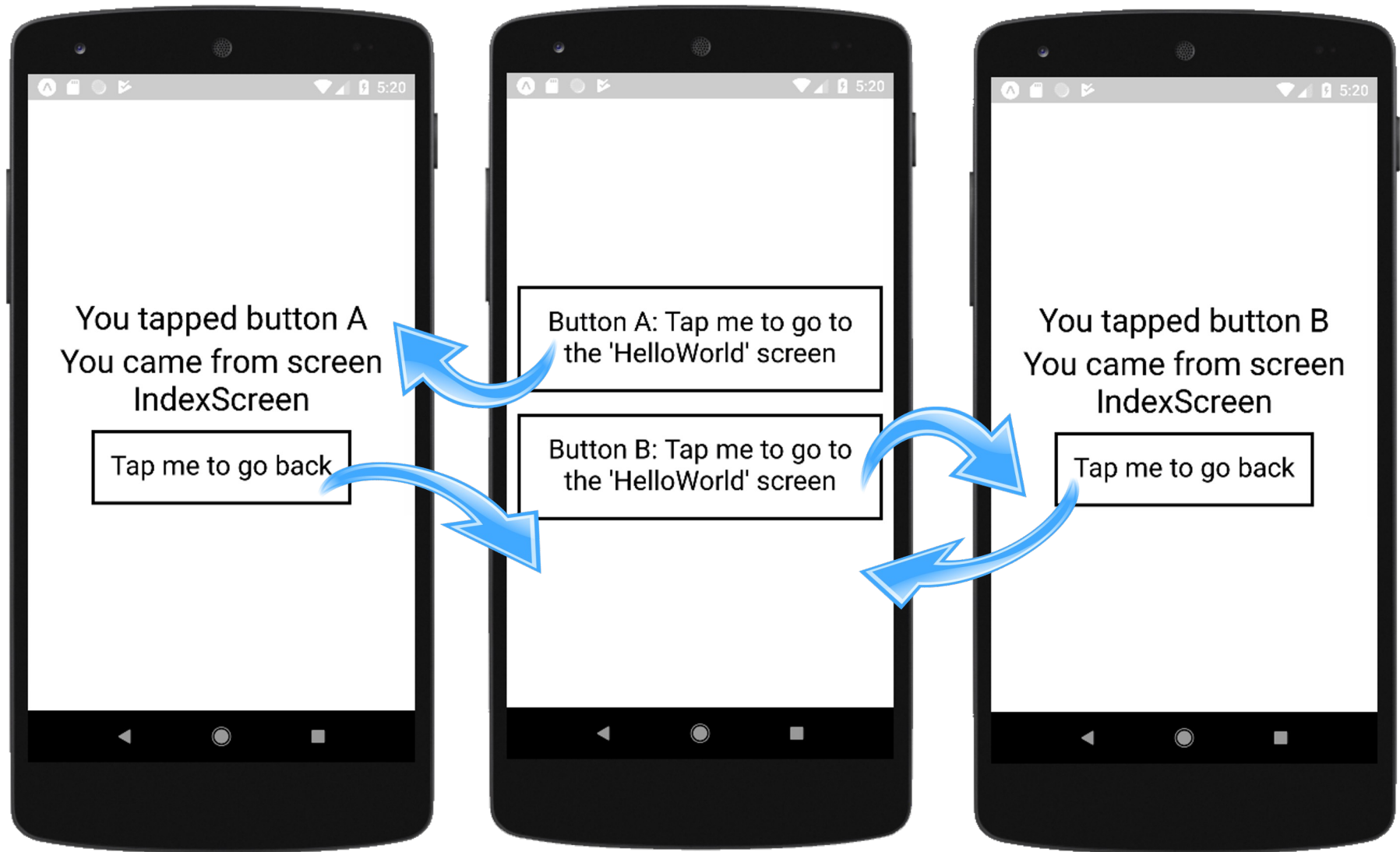
export default function IndexScreen (props) {
  return (
    <View style={{ flex:1, alignItems:'center', justifyContent:'center' }}>
      <Button
        onPress={() => props.navigation.navigate('HelloWorld')}}
        title="Tap me to go to the 'HelloWorld' screen"/>
    </View>
  )
}
```

hello_world_screen.js

```
import React from 'react';
import { Text, View, Button } from 'react-native';

export default function HelloWorldScreen (props) {
  return (
    <View style={{ flex:1, alignItems:'center', justifyContent:'center' }}>
      <Text style={{ fontSize:30 }}>Hello World!</Text>
      <Button
        onPress={() => props.navigation.goBack()}
        title="Tap me to go back"/>
    </View>
  )
}
```

StackNavigator: parámetros



index_screen.js

```
import React from 'react';
import { View, Button } from 'react-native';

export default function IndexScreen (props) {
  return (
    <View style={{ flex:1, alignItems:'center', justifyContent:'center' }}>
      <Button
        onPress={() => props.navigation.navigate('HelloWorld', {button: "A"})}
        title="Button A: Tap me to go to the 'HelloWorld' screen"/>
      <Button
        onPress={() => props.navigation.navigate('HelloWorld', {button: "B"})}
        title="Button B: Tap me to go to the 'HelloWorld' screen"/>
    </View>
  )
}
```

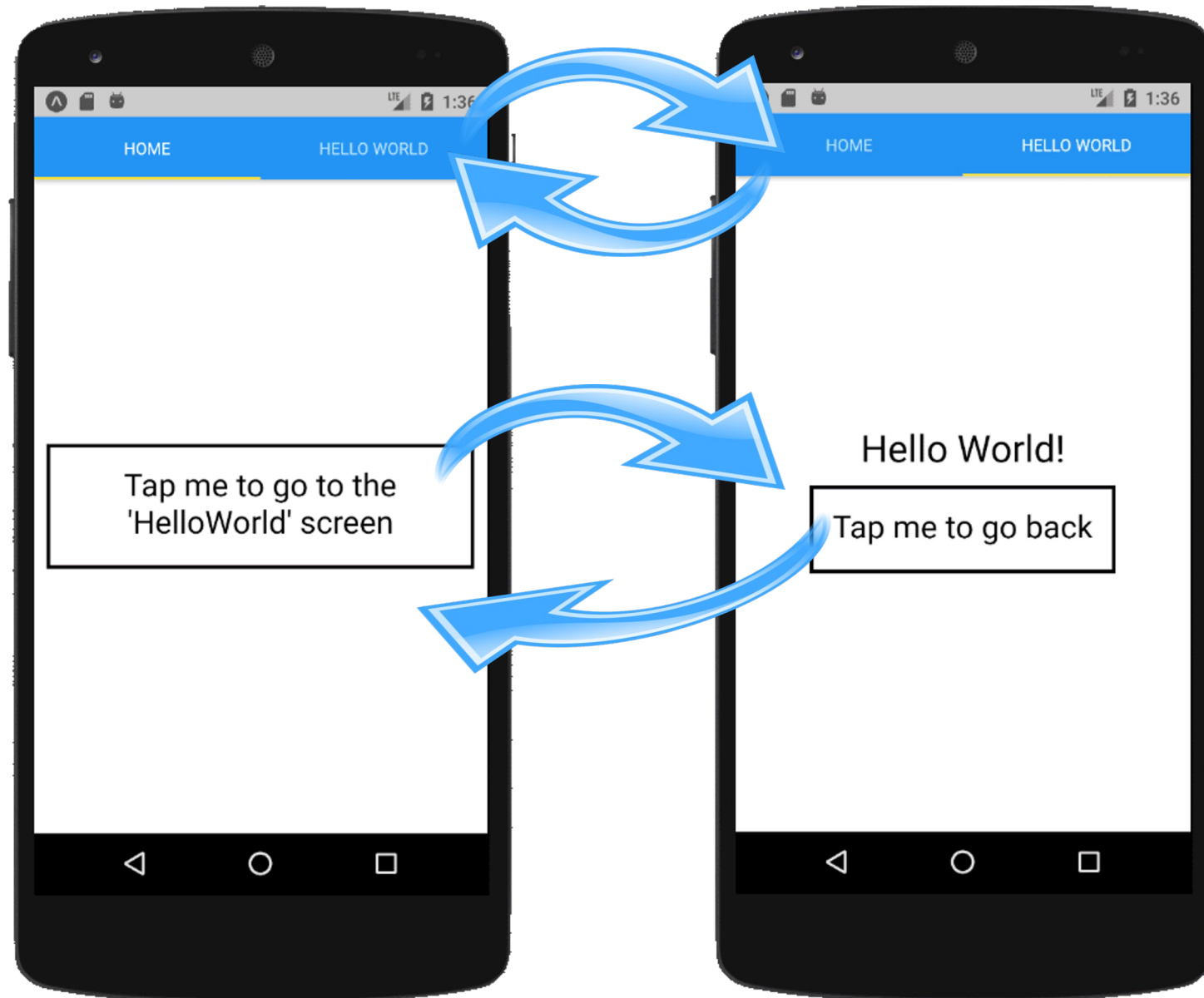
hello_world_screen.js

```
import React from 'react';
import { Text, View, Button } from 'react-native';

export default function HelloWorldScreen (props) {

  return (
    <View style={{ flex:1, alignItems:'center', justifyContent:'center' }}>
      <Text style={{ fontSize:30, textAlign:'center' }}>{props.route.params.button}</Text>
      <Button
        onPress={() => props.navigation.goBack()}
        title="Tap me to go back"/>
    </View>
  )
}
```

TabNavigator



App.js

```
import React from 'react';

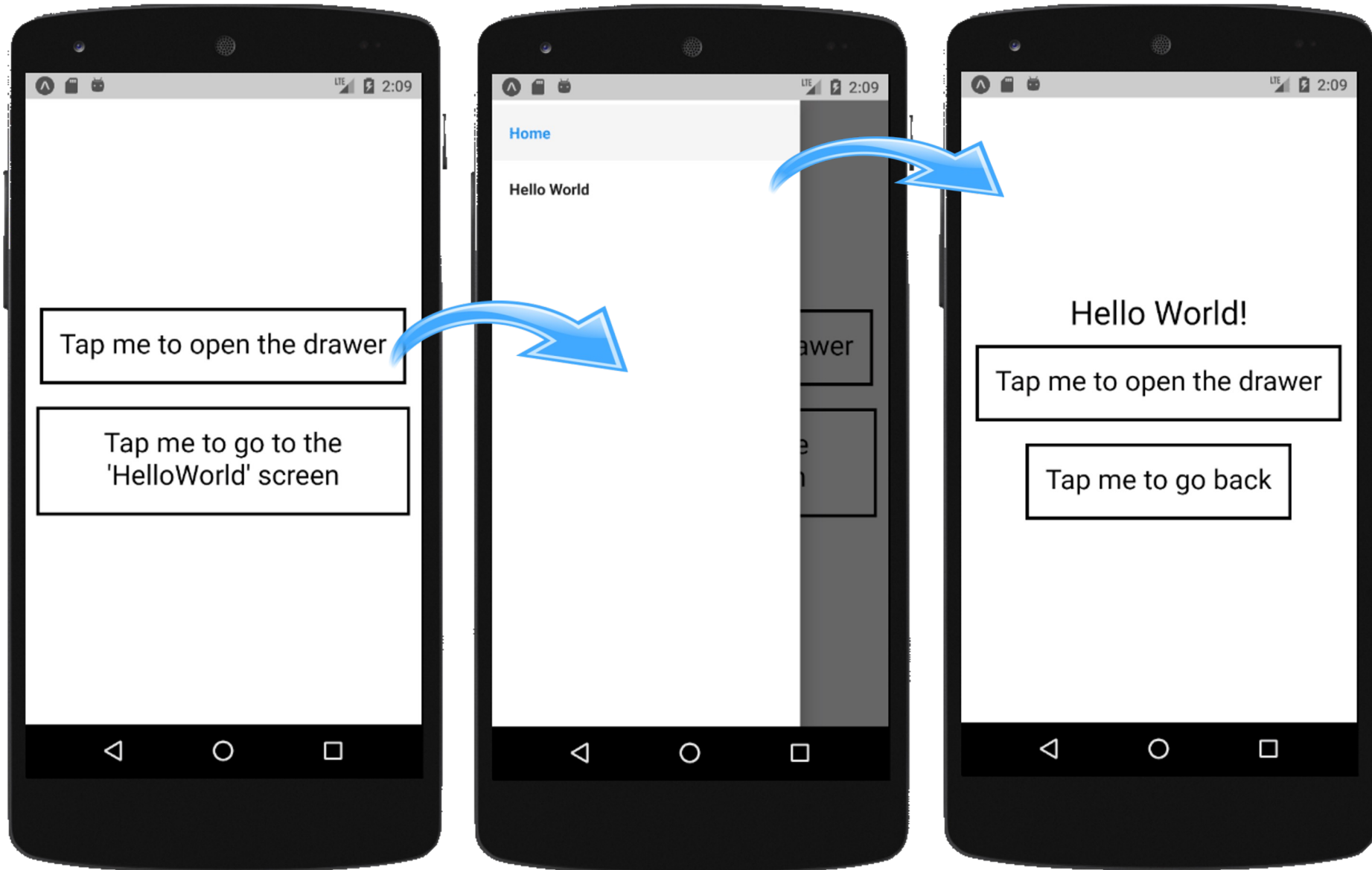
import { NavigationContainer } from '@react-navigation/native';
import { createMaterialTopTabNavigator } from '@react-navigation/material-top-tabs';

import IndexScreen from './index_screen';
import HelloWorldScreen from './hello_world_screen';

const Tab = createMaterialTopTabNavigator();

export default function App() {
  return (
    <NavigationContainer>
      <Tab.Navigator>
        <Tab.Screen name="Home" component={IndexScreen} />
        <Tab.Screen name="HelloWorld" component={HelloWorldScreen} />
      </Tab.Navigator>
    </NavigationContainer>
  );
}
```

DrawerNavigator



App.js

```
import React from 'react';
import { NavigationContainer } from '@react-navigation/native';
import { createDrawerNavigator } from '@react-navigation/drawer';

import IndexScreen from './index_screen';
import HelloWorldScreen from './hello_world_screen';

const Drawer = createDrawerNavigator();

export default function App() {
  return (
    <NavigationContainer>
      <Drawer.Navigator initialRouteName="Home">
        <Drawer.Screen name="Home" component={IndexScreen} />
        <Drawer.Screen name="HelloWorld" component={HelloWorldScreen} />
      </Drawer.Navigator>
    </NavigationContainer>
  );
}
```

index_screen.js

```
import React from 'react';
import { View, Button } from 'react-native';

export default function IndexScreen () {
  return (
    <View style={{ flex:1, alignItems:'center', justifyContent:'center' }}>
      <Button
        onPress={() => props.navigation.openDrawer()}
        title="Tap me to open the drawer"/>
      <Button
        onPress={() => props.navigation.navigate('HelloWorld')}
        title="Tap me to go to the 'HelloWorld' screen"/>
    </View>
  )
}
```

hello_world_screen.js

```
import React from 'react';
import { Text, View, Button } from 'react-native';

export default function HelloWorldScreen () {
  return (
    <View style={{ flex:1, alignItems:'center', justifyContent:'center' }}>
      <Text style={{ fontSize:30 }}>Hello World!</Text>
      <Button
        onPress={() => props.navigation.openDrawer()}
        title="Tap me to open the drawer"/>
      <Button
        onPress={() => props.navigation.goBack()}
        title="Tap me to go back"/>
    </View>
  )
}
```




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