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StackNavigator

Provides a way for your app to transition between screens where each new screen is placed on top of a stack.

By default the StackNavigator is configured to have the familiar iOS and Android look & feel: new screens slide in from the right on iOS, fade in from the bottom on Android. On iOS the StackNavigator can also be configured to a modal style where screens slide in from the bottom.

```
class MyHomeScreen extends React.Component {
  static navigationOptions = {
    title: 'Home',
  }

  render() {
    return (
      <Button
        onPress={() => this.props.navigation.navigate(
          'Profile', {name: 'Lucy'})}
        title="Go to Lucy's profile"
      />
    );
  }
}
```

```
const ModalStack = StackNavigator({
  Home: {
    screen: MyHomeScreen,
  },
  Profile: {
    path: 'people/:name',
    screen: MyProfileScreen,
  },
});
```

API Definition

```
StackNavigator(RouteConfigs, StackNavigatorConfig)
```

RouteConfigs



```
StackNavigator({

  // For each screen that you can navigate to, create
  // a new entry like this:
  Profile: {

    // `ProfileScreen` is a React component that will
    // be the main content of the screen.
    screen: ProfileScreen,
    // When `ProfileScreen` is loaded by the StackNavi
    // gator, it will be given a `navigation` prop.

    // Optional: When deep linking or using react-navi
    // gation in a web app, this path is used:
    path: 'people/:name',
    // The action and route params are extracted from
    // the path.

    // Optional: Override the `navigationOptions` for
    // the screen
    navigationOptions: ({navigation}) => ({
      title: `${navigation.state.params.name}'s Profil
e`,
    }),
  },

  ...MyOtherRoutes,
});
```

StackNavigatorConfig

Options for the router:

- `initialRouteName` - Sets the default screen of the stack. Must match one of the keys in route configs.
- `initialRouteParams` - The params for the initial route
- `navigationOptions` - Default navigation options to use for screens
- `paths` - A mapping of overrides for the paths set in the route configs

Visual options:

- `mode` - Defines the style for rendering and transitions:
 - `card` - Use the standard iOS and Android screen transitions. This is the default.
 - `modal` - Make the screens slide in from the bottom which is a common iOS pattern. Only



rendered.

- `float` - Render a single header that stays at the top and animates as screens are changed. This is a common pattern on iOS.
 - `screen` - Each screen has a header attached to it and the header fades in and out together with the screen. This is a common pattern on Android.
 - `none` - No header will be rendered.
- `cardStyle` - Use this prop to override or extend the default style for an individual card in stack.
- `transitionConfig` - Function to return an object that is merged with the default screen transitions (take a look at `TransitionConfig` in [type definitions](#)). Provided function will be passed the following arguments:
 - `transitionProps` - Transition props for the new screen.
 - `prevTransitionProps` - Transitions props for the old screen.
 - `isModal` - Boolean specifying if screen is modal.
- `onTransitionStart` - Function to be invoked when the card transition animation is about to start.
- `onTransitionEnd` - Function to be invoked once the card transition animation completes.

Screen Navigation Options

`title`

String that can be used as a fallback for `headerTitle`. Additionally, will be used as a fallback for `tabBarLabel` (if nested in a `TabNavigator`) or `drawerLabel` (if nested in a `DrawerNavigator`).

`header`

React Element or a function that given `HeaderProps` returns a React Element, to display as a header. Setting to `null` hides header.

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`headerTitle`

String, React Element or React Component used by the header. Defaults to scene `title`. When a component is used,

`headerTitleAllowFontScaling`

Whether header title font should scale to respect Text Size accessibility settings. Defaults to true.

`headerBackTitle`

Title string used by the back button on iOS, or `null` to disable label. Defaults to the previous scene's `headerTitle`.

`headerTruncatedBackTitle`

Title string used by the back button when `headerBackTitle` doesn't fit on the screen. `"Back"` by default.

`headerRight`

React Element to display on the right side of the header.

`headerLeft`

React Element or Component to display on the left side of the header. When a component is used, it receives a number of props when rendered (`onPress`, `title`, `titleStyle` and more - check `Header.js` for the complete list).

`headerStyle`

Style object for the header

`headerTitleStyle`

Style object for the title component

`headerBackTitleStyle`

Style object for the back title

`headerTintColor`

Tint color for the header

`headerPressColorAndroid`

Color for material ripple (Android >= 5.0 only)

`gesturesEnabled`

Whether you can use gestures to dismiss this screen. Defaults to true on iOS, false on Android.



or the screen to recognize gestures. It takes the following properties:

- `horizontal` - *number* - Distance for horizontal direction. Defaults to 25.
- `vertical` - *number* - Distance for vertical direction. Defaults to 135.

Navigator Props

The navigator component created by `StackNavigator(...)` takes the following props:

- `screenProps` - Pass down extra options to child screens, for example:

```
const SomeStack = StackNavigator({
  // config
});

<SomeStack
  screenProps={/* this prop will get passed to the screen components as this.props.screenProps */}
/>
```

Examples

See the examples `SimpleStack.js` and `ModalStack.js` which you can run locally as part of the `NavigationPlayground` app.

You can view these examples directly on your phone by visiting our [expo demo](#).

Modal StackNavigator with Custom Screen Transitions

```
const ModalNavigator = StackNavigator(
{
  Main: { screen: Main },
  Login: { screen: Login },
},
{
  headerMode: 'none',
  mode: 'modal',
  navigationOptions: {
    gesturesEnabled: false,
  },
  transitionConfig: () => ({
    transitionSpec: {
      duration: 300,

```



```
screenInterpolator: sceneProps => {
  const { layout, position, scene } = sceneProps;
  const { index } = scene;

  const height = layout.initHeight;
  const translateY = position.interpolate({
    inputRange: [index - 1, index, index + 1],
    outputRange: [height, 0, 0],
  });

  const opacity = position.interpolate({
    inputRange: [index - 1, index - 0.99, index],
    outputRange: [0, 1, 1],
  });

  return { opacity, transform: [{ translateY }] }
;
},
)),
}
);
```

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