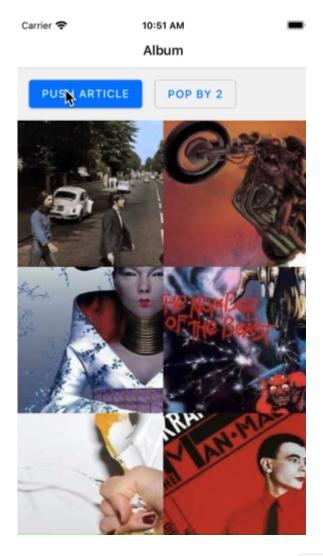


Stack Navigator

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

By default the stack navigator is configured to have the familiar iOS and Android look & feel: new screens slide in from the right on iOS, use OS default animation on Android. But the animations can be customized to match your needs.



One thing to keep in mind is that while <code>@react-navigation/stack</code> is extremely customizable, it's implemented in JavaScript. While it runs animations and gestures using natively, the performance may not be as fast as a native implementation. This may not be an issue for a lot of apps, but if

you're experiencing performance issues during navigation, consider using @react-navigation/native-stack instead - which uses native navigation primitives.

Installation

To use this navigator, ensure that you have <code>@react-navigation/native</code> and its dependencies (follow this guide), then install <code>@react-navigation/stack</code>:

npm Yarn

```
npm install @react-navigation/stack
```

Then, you need to install and configure the libraries that are required by the stack navigator:

1. First, install react-native-gesture-handler.

If you have a Expo managed project, in your project directory, run:

```
npx expo install react-native-gesture-handler
```

If you have a bare React Native project, in your project directory, run:

npm Yarn

```
npm install react-native-gesture-handler
```

2. To finalize installation of react-native-gesture-handler, add the following at the **top** (make sure it's at the top and there's nothing else before it) of your entry file, such as index.js or App.js:

```
import 'react-native-gesture-handler';
```

Note: If you are building for Android or iOS, do not skip this step, or your app may crash in production even if it works fine in development. This is not applicable to other platforms.

3. Optionally, you can also install <code>@react-native-masked-view/masked-view</code>. This is needed if you want to use UIKit style animations for the header (<code>HeaderStyleInterpolators.forUIKit</code>).

If you have a Expo managed project, in your project directory, run:

```
npx expo install @react-native-masked-view/masked-view
```

If you have a bare React Native project, in your project directory, run:

```
npm Yarn
```

```
npm install @react-native-masked-view/masked-view
```

4. If you're on a Mac and developing for iOS, you also need to install the pods (via Cocoapods) to complete the linking.

```
npx pod-install ios
```

API Definition

To use this navigator, import it from <code>@react-navigation/stack</code>:

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Props

The Stack.Navigator component accepts following props:

id

Optional unique ID for the navigator. This can be used with navigator. to refer to this navigator in a child navigator.

initialRouteName

The name of the route to render on first load of the navigator.

screenOptions

Default options to use for the screens in the navigator.

detachInactiveScreens

Boolean used to indicate whether inactive screens should be detached from the view hierarchy to save memory. This enables integration with react-native-screens. Defaults to true.

If you need to disable this optimization for specific screens (e.g. you want to screen to stay in view even when unfocused) detachPreviousScreen option.

keyboardHandlingEnabled

If false, the keyboard will NOT automatically dismiss when navigating to a new screen from this screen. Defaults to true.

Options

The following options can be used to configure the screens in the navigator. These can be specified under screenOptions prop of Stack.navigator or options prop of Stack.Screen.

title

String that can be used as a fallback for headerTitle.

cardShadowEnabled

Use this prop to have visible shadows during transitions. Defaults to true.

cardOverlayEnabled

Use this prop to have a semi-transparent dark overlay visible under the card during transitions. Defaults to true on Android and false on iOS.

cardOverlay

Function which returns a React Element to display as the overlay for the card. Make sure to set cardOverlayEnabled to true when using this.

cardStyle

Style object for the card in stack. You can provide a custom background color to use instead of the default background here.

You can also specify { backgroundColor: 'transparent' } to make the previous screen visible underneath (for transparent modals). This is useful to implement things like modal dialogs. You should also specify presentation: 'modal' in the options when using a transparent background so previous screens aren't detached and stay visible underneath.

On Web, the height of the screen isn't limited to the height of the viewport. This is by design to allow the browser's address bar to hide when scrolling. If this isn't desirable behavior, you can set cardStyle to { flex: 1 } to force the screen to fill the viewport.

presentation

This is shortcut option which configures several options to configure the style for rendering and transitions:

- card: Use the default OS animations for iOS and Android screen transitions.
- modal: Use Modal animations. This changes a few things:
 - Sets headerMode to screen for the screen unless specified otherwise.
 - Changes the screen animation to match the platform behavior for modals.
- transparentModal: Similar to modal. This changes following things:
 - Sets headerMode to screen for the screen unless specified otherwise.
 - o Sets background color of the screen to transparent, so previous screen is visible
 - Adjusts the detachPreviousScreen option so that the previous screen stays rendered.
 - Prevents the previous screen from animating from its last position.
 - Changes the screen animation to a vertical slide animation.

See Transparent modals for more details on how to customize transparentModal.

animationEnabled

Whether transition animation should be enabled on the screen. If you set it to false, the screen won't animate when pushing or popping. Defaults to true on iOS and Android, false on Web.

animationTypeForReplace

The type of animation to use when this screen replaces another screen. It takes the following values:

- push The animation of a new screen being pushed will be used
- pop The animation of a screen being popped will be used

Defaults to push.

When pop is used, the pop animation is applied to the screen being replaced.

gestureEnabled

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

Gestures are not supported on Web.

gestureResponseDistance

Number to override the distance of touch start from the edge of the screen to recognize gestures.

It'll configure either the horizontal or vertical distance based on the gestureDirection value.

The default values are:

- [50] when <code>gestureDirection</code> is <code>horizontal</code> or <code>horizontal-inverted</code>
- 135 when gestureDirection is vertical or vertical-inverted

This is not supported on Web.

gestureVelocityImpact

Number which determines the relevance of velocity for the gesture. Defaults to 0.3.

This is not supported on Web.

gestureDirection

Direction of the gestures. Refer the Animations section for details.

This is not supported on Web.

transitionSpec

Configuration object for the screen transition. Refer the Animations section for details.

cardStyleInterpolator

Interpolated styles for various parts of the card. Refer the Animations section for details.

headerStyleInterpolator

Interpolated styles for various parts of the header. Refer the Animations section for details.

detachPreviousScreen

Boolean used to indicate whether to detach the previous screen from the view hierarchy to save memory. Set it to false if you need the previous screen to be seen through the active screen. Only applicable if detachInactiveScreens isn't set to false.

This is automatically adjusted when using presentation as transparentModal or [modal] to keep the required screens visible. Defaults to true in other cases.

freezeOnBlur

Boolean indicating whether to prevent inactive screens from re-rendering. Defaults to false.

Defaults to true when enableFreeze() from react-native-screens package is run at the top of the application.

Requires react-native-screens version >= 3.16.0.

Only supported on iOS and Android.

Header related options

You can find the list of header related options here. These options can be specified under screenOptions prop of Stack.navigator or options prop of Stack.Screen. You don't have to be using @react-navigation/elements directly to use these options, they are just documented in that page.

In addition to those, the following options are also supported in stack:

header

Custom header to use instead of the default header.

This accepts a function that returns a React Element to display as a header. The function receives an object containing the following properties as the argument:

- navigation The navigation object for the current screen.
- route The route object for the current screen.
- options The options for the current screen
- (layout) Dimensions of the screen, contains (height) and (width) properties.
- progress Animated nodes representing the progress of the animation.
- (back) Options for the back button, contains an object with a (title) property to use for back button label.
- styleInterpolator Function which returns interpolated styles for various elements in the header.

Make sure to set headerMode to screen as well when using a custom header (see below for more details).

Example:

To set a custom header for all the screens in the navigator, you can specify this option in the screenOptions prop of the navigator.

When using a custom header, there are 2 things to keep in mind:

```
Specify a height in headerStyle to avoid glitches
```

If your header's height differs from the default header height, then you might notice glitches due to measurement being async. Explicitly specifying the height will avoid such glitches.

Example:

```
headerStyle: {
  height: 80, // Specify the height of your custom header
};
```

Note that this style is not applied to the header by default since you control the styling of your custom header. If you also want to apply this style to your header, use headerStyle from the props.

Set headerMode to float for custom header animations

By default, there is one floating header which renders headers for multiple screens on iOS for non-modals. These headers include animations to smoothly switch to one another.

If you specify a custom header, React Navigation will change it to screen automatically so that the header animated along with the screen instead. This means that you don't have to implement animations to animate it separately.

But you might want to keep the floating header to have a different transition animation between headers. To do that, you'll need to specify headerMode: 'float' in the options, and then interpolate on the progress.current and progress.next props in your custom header. For example, following will cross-fade the header:

```
const opacity = Animated.add(progress.current, progress.next || 0).interpolate({
  inputRange: [0, 1, 2],
  outputRange: [0, 1, 0],
});

return (
  <Animated.View style={{ opacity }}>{/* Header content */}</Animated.View>
);
```

headerMode

Specifies how the header should be rendered:

- float Render a single header that stays at the top and animates as screens are changed. This is default on iOS.
- screen Each screen has a header attached to it and the header fades in and out together with the screen. This is default on other platforms.

headerShown

Whether to show or hide the header for the screen. The header is shown by default. Setting this to false hides the header.

headerBackAllowFontScaling

Whether back button title font should scale to respect Text Size accessibility settings. Defaults to false.

headerBackAccessibilityLabel

Accessibility label for the header back button.

headerBackImage

Function which returns a React Element to display custom image in header's back button. When a function is used, it receives the tintColor in it's argument object. Defaults to Image component with back image source, which is the default back icon image for the platform (a chevron on iOS and an arrow on Android).

headerBackTitle

Title string used by the back button on iOS. Defaults to the previous scene's headerTitle.

headerBackTitleVisible

A reasonable default is supplied for whether the back button title should be visible or not, but if you want to override that you can use true or false in this option.

headerTruncatedBackTitle

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

headerBackTitleStyle

Style object for the back title.

Events

The navigator can emit events on certain actions. Supported events are:

transitionStart

This event is fired when the transition animation starts for the current screen.

Event data:

• e.data.closing - Boolean indicating whether the screen is being opened or closed.

Example:

```
React.useEffect(() => {
  const unsubscribe = navigation.addListener('transitionStart', (e) => {
     // Do something
  });
  return unsubscribe;
}, [navigation]);
```

transitionEnd

This event is fired when the transition animation ends for the current screen.

Event data:

• [e.data.closing] - Boolean indicating whether the screen was opened or closed.

Example:

```
React.useEffect(() => {
  const unsubscribe = navigation.addListener('transitionEnd', (e) => {
     // Do something
  });
  return unsubscribe;
}, [navigation]);
```

gestureStart

This event is fired when the swipe gesture starts for the current screen.

Example:

```
React.useEffect(() => {
  const unsubscribe = navigation.addListener('gestureStart', (e) => {
     // Do something
  });
  return unsubscribe;
}, [navigation]);
```

gestureEnd

This event is fired when the swipe gesture ends for the current screen. e.g. a screen was successfully dismissed.

Example:

```
React.useEffect(() => {
  const unsubscribe = navigation.addListener('gestureEnd', (e) => {
     // Do something
  });
  return unsubscribe;
}, [navigation]);
```

gestureCancel

This event is fired when the swipe gesture is cancelled for the current screen. e.g. a screen wasn't dismissed by the gesture.

Example:

```
React.useEffect(() => {
  const unsubscribe = navigation.addListener('gestureCancel', (e) => {
     // Do something
  });
  return unsubscribe;
}, [navigation]);
```

Helpers

The stack navigator adds the following methods to the navigation prop:

replace

Replaces the current screen with a new screen in the stack. The method accepts following arguments:

- name string Name of the route to push onto the stack.
- params *object* Screen params to pass to the destination route.

```
navigation.replace('Profile', { owner: 'Michaś' });
```

push

Pushes a new screen to top of the stack and navigate to it. The method accepts following arguments:

- (name) *string* Name of the route to push onto the stack.
- params object Screen params to pass to the destination route.

```
navigation.push('Profile', { owner: 'Michaś' });
```

pop

Pops the current screen from the stack and navigates back to the previous screen. It takes one optional argument (count), which allows you to specify how many screens to pop back by.

```
navigation.pop();
```

popToTop

Pops all of the screens in the stack except the first one and navigates to it.

```
navigation.popToTop();
```

Example

```
import { createStackNavigator } from '@react-navigation/stack';
const Stack = createStackNavigator();
function MyStack() {
  return (
    <Stack.Navigator
      initialRouteName="Home"
      screenOptions={{
        headerMode: 'screen',
        headerTintColor: 'white',
        headerStyle: { backgroundColor: 'tomato' },
      }}
    >
      <Stack.Screen
        name="Home"
        component={Home}
        options={{
          title: 'Awesome app',
        }}
      />
      <Stack.Screen
        name="Profile"
        component={Profile}
        options={{
          title: 'My profile',
        }}
      />
      <Stack.Screen
        name="Settings"
        component={Settings}
        options={{
          gestureEnabled: false,
        }}
      />
    </Stack.Navigator>
  );
}
```

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Animations

Animation related options

Stack Navigator exposes various options to configure the transition animation when a screen is added or removed. These transition animations can be customized on a per-screen basis by specifying the options in the options prop for each screen.

- gestureDirection The direction of swipe gestures:
 - horizontal The gesture to close the screen will start from the left, and from the right in RTL. For animations, screen will slide from the right with SlideFromRightIOS, and from the left in RTL.
 - horizontal-inverted The gesture to close the screen will start from the right, and from the left in RTL. For animations, screen will slide from the left with SlideFromRightIOS, and from the right in RTL as the direction is inverted.
 - vertical The gesture to close the screen will start from the top. For animations, screen will slide from the bottom.
 - vertical-inverted The gesture to close the screen will start from the bottom. For animations, screen will slide from the top.

You may want to specify a matching horizontal/vertical animation along with gestureDirection as well. For the animations included in the library, if you set gestureDirection to one of the inverted ones, it'll also flip the animation direction.

- transitionSpec An object which specifies the animation type (timing or spring) and their options (such as duration for timing). It takes 2 properties:
 - o open Configuration for the transition when adding a screen
 - close Configuration for the transition when removing a screen.

Each of the object should specify 2 properties:

- animation The animation function to use for the animation. Supported values are timing and spring.
- o config The configuration object for the timing function. For timing, it can be duration and easing. For spring, it can be stiffness, damping, mass, overshootClamping,

restDisplacementThreshold and restSpeedThreshold.

A config which uses spring animation looks like this:

```
const config = {
  animation: 'spring',
  config: {
    stiffness: 1000,
    damping: 500,
    mass: 3,
    overshootClamping: true,
    restDisplacementThreshold: 0.01,
    restSpeedThreshold: 0.01,
},
};
```

We can pass this config in the transitionSpec option:

```
<Stack.Screen

name="Profile"

component={Profile}

options={{
    transitionSpec: {
       open: config,
       close: config,
    },
    }
}
</pre>
```

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- cardStyleInterpolator This is a function which specifies interpolated styles for various parts of the card. This allows you to customize the transitions when navigating from screen to screen. It is expected to return at least empty object, possibly containing interpolated styles for container, the card itself, overlay and shadow. Supported properties are:
 - containerStyle Style for the container view wrapping the card.
 - cardStyle Style for the view representing the card.
 - overlayStyle Style for the view representing the semi-transparent overlay below

• shadowStyle - Style for the view representing the card shadow.

The function receives the following properties in its argument:

- o current Values for the current screen:
 - progress Animated node representing the progress value of the current screen.
- next Values for the screen after this one in the stack. This can be undefined in case the screen animating is the last one.
 - progress Animated node representing the progress value of the next screen.
- o index The index of the card in the stack.
- closing Animated node representing whether the card is closing. 1 when closing, 0 if not.
- layouts Layout measurements for various items we use for animation.
 - screen Layout of the whole screen. Contains (height) and (width) properties.

Note that when a screen is not the last, it will use the next screen's transition config.

This is because many transitions involve an animation of the previous screen, and so these two transitions need to be kept together to prevent running two different kinds of transitions on the two screens (for example a slide and a modal). You can check the next parameter to find out if you want to animate out the previous screen. For more information about this parameter, see Animation section.

A config which just fades the screen looks like this:

```
const forFade = ({ current }) => ({
  cardStyle: {
    opacity: current.progress,
  },
});
```

We can pass this function in cardStyleInterpolator option:

```
<Stack.Screen
  name="Profile"
  component={Profile}
  options={{ cardStyleInterpolator: forFade }}
/>
```

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The interpolator will be called for each screen. For example, say you have a 2 screens in the stack, A & B. B is the new screen coming into focus and A is the previous screen. The interpolator will be called for each screen:

- The interpolator is called for B: Here, the current.progress value represents the progress of the transition, which will start at 0 and end at 1. There won't be a next.progress since B is the last screen.
- o The interpolator is called for A: Here, the current progress will stay at the value of 1 and won't change, since the current transition is running for B, not A. The next progress value represents the progress of B and will start at 0 and end at 1.

Say we want to animate both screens during the transition. The easiest way to do it would be to combine the progress value of current and next screens:

```
const progress = Animated.add(
  current.progress.interpolate({
    inputRange: [0, 1],
    outputRange: [0, 1],
    extrapolate: 'clamp',
}),
  next
  ? next.progress.interpolate({
    inputRange: [0, 1],
    outputRange: [0, 1],
    extrapolate: 'clamp',
    })
    : 0
);
```

Here, the screen A will have both current.progress and next.progress, and since current.progress stays at 1 and next.progress is changing, combined, the progress will change from 1 to 2. The screen B will only have current.progress which will change from 0 to 1. So, we can apply different interpolations for 0-1 and 1-2 to animate focused screen and unfocused screen respectively.

A config which translates the previous screen slightly to the left, and translates the current screen from the right edge would look like this:

```
const forSlide = ({ current, next, inverted, layouts: { screen } }) => {
  const progress = Animated.add(
    current.progress.interpolate({
      inputRange: [0, 1],
      outputRange: [0, 1],
      extrapolate: 'clamp',
    }),
    next
      ? next.progress.interpolate({
          inputRange: [0, 1],
          outputRange: [0, 1],
          extrapolate: 'clamp',
        })
      : 0
  );
  return {
    cardStyle: {
      transform: [
        {
          translateX: Animated.multiply(
            progress.interpolate({
              inputRange: [0, 1, 2],
              outputRange: [
                screen.width, // Focused, but offscreen in the beginning
                0, // Fully focused
                screen.width * -0.3, // Fully unfocused
              1,
              extrapolate: 'clamp',
            }),
            inverted
          ),
        },
      ],
    },
  };
};
```

• headerStyleInterpolator - This is a function which specifies interpolated styles for various parts of the header. It is expected to return at least empty object, possibly containing interpolated styles for left label and button, right button, title and background. Supported properties are:

- leftLabelStyle Style for the label of the left button (back button label).
- leftButtonStyle Style for the left button (usually the back button).
- rightButtonStyle Style for the right button.
- titleStyle Style for the header title text.
- backgroundStyle Style for the header background.

The function receives the following properties in it's argument:

- o current Values for the current screen (the screen which owns this header).
 - progress Animated node representing the progress value of the current screen.
 when screen should start coming into view,
 when it's mid-way,
 when it should be fully in view.
- next Values for the screen after this one in the stack. This can be undefined in case the screen animating is the last one.
 - progress Animated node representing the progress value of the next screen.
- layouts Layout measurements for various items we use for animation. Each layout object contain height and width properties.
 - screen Layout of the whole screen.
 - title Layout of the title element. Might be undefined when not rendering a title.
 - [leftLabel] Layout of the back button label. Might be [undefined] when not rendering a back button label.

A config which just fades the elements looks like this:

```
const forFade = ({ current, next }) => {
  const opacity = Animated.add(
    current.progress,
    next ? next.progress : 0
).interpolate({
    inputRange: [0, 1, 2],
    outputRange: [0, 1, 0],
});

return {
    leftButtonStyle: { opacity },
    rightButtonStyle: { opacity },
    titleStyle: { opacity },
    backgroundStyle: { opacity },
```

```
};
};
```

We can pass this function in headerStyleInterpolator option:

```
<Stack.Screen
  name="Profile"
  component={Profile}
  options={{ headerStyleInterpolator: forFade }}
/>
```

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Pre-made configs

With these options, it's possible to build custom transition animations for screens. We also export various configs from the library with ready-made animations which you can use:

TransitionSpecs

- TransitionIOSSpec Exact values from UINavigationController's animation configuration.
- FadeInFromBottomAndroidSpec Configuration for activity open animation from Android Nougat.
- FadeOutToBottomAndroidSpec Configuration for activity close animation from Android Nougat.
- RevealFromBottomAndroidSpec Approximate configuration for activity open animation from Android Pie.

Example:

```
import { TransitionSpecs } from '@react-navigation/stack';

// ...

<Stack.Screen
   name="Profile"
   component={Profile}
   options={{</pre>
```

```
transitionSpec: {
    open: TransitionSpecs.TransitionIOSSpec,
    close: TransitionSpecs.TransitionIOSSpec,
    },
}
/>;
```

CardStyleInterpolators

- forHorizontalIOS Standard iOS-style slide in from the right.
- [forVerticalIOS] Standard iOS-style slide in from the bottom (used for modals).
- forModalPresentationIOS Standard iOS-style modal animation in iOS 13.
- forFadeFromBottomAndroid Standard Android-style fade in from the bottom for Android Oreo.
- forRevealFromBottomAndroid Standard Android-style reveal from the bottom for Android Pie.

Example configuration for Android Oreo style vertical screen fade animation:

```
import { CardStyleInterpolators } from '@react-navigation/stack';

// ...

<Stack.Screen
   name="Profile"
   component={Profile}
   options={{
      title: 'Profile',
      cardStyleInterpolator: CardStyleInterpolators.forFadeFromBottomAndroid,
   }}

/>;
```

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HeaderStyleInterpolators

- forUIKit Standard UIKit style animation for the header where the title fades into the back button label.
- forFade Simple fade animation for the header elements.

• forStatic - Simple translate animation to translate the header along with the sliding screen.

Example configuration for default iOS animation for header elements where the title fades into the back button:

```
import { HeaderStyleInterpolators } from '@react-navigation/stack';

// ...

<Stack.Screen
   name="Profile"
   component={Profile}
   options={{
      title: 'Profile',
      headerStyleInterpolator: HeaderStyleInterpolators.forUIKit,
   }}

/>;
```

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Note: Always define your animation configuration at the top-level of the file to ensure that the references don't change across re-renders. This is important for smooth and reliable transition animations.

TransitionPresets

We export various transition presets which bundle various set of these options together to match certain native animations. A transition preset is an object containing few animation related screen options exported under TransitionPresets. Currently the following presets are available:

- SlideFromRightIOS Standard iOS navigation transition.
- ModalSlideFromBottomIOS Standard iOS navigation transition for modals.
- ModalPresentationIOS Standard iOS modal presentation style (introduced in iOS 13).
- FadeFromBottomAndroid Standard Android navigation transition when opening or closing an Activity on Android < 9 (Oreo).
- RevealFromBottomAndroid Standard Android navigation transition when opening or closing an Activity on Android 9 (Pie).

- ScaleFromCenterAndroid Standard Android navigation transition when opening or closing an Activity on Android >= 10.
- DefaultTransition Default navigation transition for the current platform.
- ModalTransition Default modal transition for the current platform.

You can spread these presets in options to customize the animation for a screen:

```
import { TransitionPresets } from '@react-navigation/stack';

// ...

<Stack.Screen
   name="Profile"
   component={Profile}
   options={{
      title: 'Profile',
      ...TransitionPresets.ModalSlideFromBottomIOS,
   }}
/>;
```

Try this example on Snack ☐

If you want to customize the transition animations for all of the screens in the navigator, you can specify it in screenOptions prop for the navigator.

Example configuration for iOS modal presentation style:

```
import { TransitionPresets } from '@react-navigation/stack';

// ...

<Stack.Navigator
  initialRouteName="Home"
  screenOptions={({ route, navigation }) => ({
    headerShown: false,
    gestureEnabled: true,
    ...TransitionPresets.ModalPresentationIOS,
  })}

<Stack.Screen name="Home" component={Home} />
```

```
<Stack.Screen name="Profile" component={Profile} />
</Stack.Navigator>;
```

Try this example on Snack ☐

Transparent modals

A transparent modal is like a modal dialog which overlays the screen. The previous screen still stays visible underneath. To get a transparent modal screen, you can specify presentation:

'transparentModal' in the screen's options.

Example:

```
<Stack.Navigator>
  <Stack.Screen name="Home" component={HomeStack} />
  <Stack.Screen
    name="Modal"
    component={ModalScreen}
    options={{ presentation: 'transparentModal' }}
  />
  </Stack.Navigator>
```

Now, when you navigate to the Modal screen, it'll have a transparent background and the Home screen will be visible underneath.

In addition to presentation, you might want to optionally specify few more things to get a modal dialog like behavior:

- Disable the header with headerShown: false
- Enable the overlay with cardOverlayEnabled: true (you can't tap the overlay to close the screen this way, see below for alternatives)

If you want to further customize how the dialog animates, or want to close the screen when tapping the overlay etc., you can use the useCardAnimation hook to customize elements inside your screen.

Example:

```
import {
 Animated,
 View,
 Text,
 Pressable,
 Button,
 StyleSheet,
} from 'react-native';
import { useTheme } from '@react-navigation/native';
import { useCardAnimation } from '@react-navigation/stack';
function ModalScreen({ navigation }) {
 const { colors } = useTheme();
 const { current } = useCardAnimation();
 return (
   <View
      style={{
        flex: 1,
        alignItems: 'center',
        justifyContent: 'center',
     }}
      <Pressable
        style={[
          StyleSheet.absoluteFill,
          { backgroundColor: 'rgba(0, 0, 0, 0.5)' },
        1}
        onPress={navigation.goBack}
      />
      <Animated.View
        style={{
          padding: 16,
          width: '90%',
          maxWidth: 400,
          borderRadius: 3,
          backgroundColor: colors.card,
          transform: [
            {
              scale: current.progress.interpolate({
                inputRange: [0, 1],
                outputRange: [0.9, 1],
                extrapolate: 'clamp',
```

```
}),
            },
          ],
        }}
        <Text>
         Mise en place is a French term that literally means "put in place." It
          also refers to a way cooks in professional kitchens and restaurants
          set up their work stations—first by gathering all ingredients for a
          recipes, partially preparing them (like measuring out and chopping),
          and setting them all near each other. Setting up mise en place before
          cooking is another top tip for home cooks, as it seriously helps with
          organization. It'll pretty much guarantee you never forget to add an
          ingredient and save you time from running back and forth from the
          pantry ten times.
        </Text>
        <Button
         title="Okay"
          color={colors.primary}
          style={{ alignSelf: 'flex-end' }}
          onPress={navigation.goBack}
       />
     </Animated.View>
   </View>
 );
}
```

Here we animate the scale of the dialog, and also add an overlay to close the dialog.

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