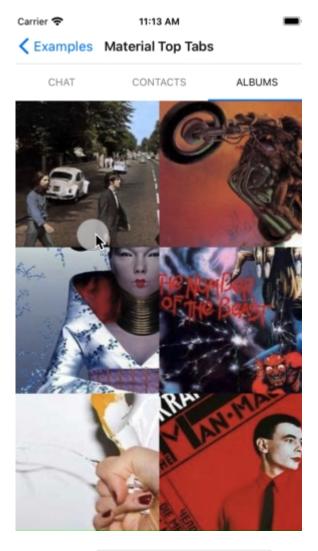


Material Top Tabs Navigator

A material-design themed tab bar on the top of the screen that lets you switch between different routes by tapping the tabs or swiping horizontally. Transitions are animated by default. Screen components for each route are mounted immediately.



This wraps react-native-tab-view. If you want to use the tab view without React Navigation integration, use the library directly instead.

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/material-top-tabs</code>:

npm Yarn

```
npm install @react-navigation/material-top-tabs react-native-tab-view
```

Then, you need to install react-native-pager-view which is required by the navigator.

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

```
npx expo install react-native-pager-view
```

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

npm Yarn

```
npm install react-native-pager-view
```

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 tab navigator, import it from <code>@react-navigation/material-top-tabs</code>:

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For a complete usage guide please visit Tab Navigation

Props

The Tab.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.

backBehavior

This controls what happens when <code>goBack</code> is called in the navigator. This includes pressing the device's back button or back gesture on Android.

It supports the following values:

- firstRoute return to the first screen defined in the navigator (default)
- initialRoute return to initial screen passed in initialRouteName prop, if not passed, defaults to the first screen
- order return to screen defined before the focused screen

- history return to last visited screen in the navigator; if the same screen is visited multiple times, the older entries are dropped from the history
- none do not handle back button

tabBarPosition

Position of the tab bar in the tab view. Possible values are 'top' and 'bottom'. Defaults to 'top'.

keyboardDismissMode

String indicating whether the keyboard gets dismissed in response to a drag gesture. Possible values are:

- 'auto' (default): the keyboard is dismissed when the index changes.
- 'on-drag': the keyboard is dismissed when a drag begins.
- 'none': drags do not dismiss the keyboard.

initialLayout

Object containing the initial height and width of the screens. Passing this will improve the initial rendering performance. For most apps, this is a good default:

```
{
  width: Dimensions.get('window').width;
}
```

sceneContainerStyle

Style to apply to the view wrapping each screen. You can pass this to override some default styles such as overflow clipping.

style

Style to apply to the tab view container.

tabBar

Function that returns a React element to display as the tab bar.

Example:

```
import { Animated, View, TouchableOpacity } from 'react-native';
function MyTabBar({ state, descriptors, navigation, position }) {
 return (
   <View style={{ flexDirection: 'row' }}>
      {state.routes.map((route, index) => {
        const { options } = descriptors[route.key];
        const label =
          options.tabBarLabel !== undefined
            ? options.tabBarLabel
            : options.title !== undefined
            ? options.title
            : route.name;
        const isFocused = state.index === index;
        const onPress = () => {
          const event = navigation.emit({
            type: 'tabPress',
            target: route.key,
            canPreventDefault: true,
          });
          if (!isFocused && !event.defaultPrevented) {
           // The `merge: true` option makes sure that the params inside the
tab screen are preserved
            navigation.navigate({ name: route.name, merge: true });
          }
        };
        const onLongPress = () => {
          navigation.emit({
            type: 'tabLongPress',
            target: route.key,
         });
        };
        const inputRange = state.routes.map((_, i) => i);
        const opacity = position.interpolate({
          inputRange,
          outputRange: inputRange.map(i => (i === index ? 1 : 0)),
```

```
});
        return (
          <TouchableOpacity
            accessibilityRole="button"
            accessibilityState={isFocused ? { selected: true } : {}}
            accessibilityLabel={options.tabBarAccessibilityLabel}
            testID={options.tabBarTestID}
            onPress={onPress}
            onLongPress={onLongPress}
            style={{ flex: 1 }}
            <Animated.Text style={{ opacity }}>
              {label}
            </Animated.Text>
          </TouchableOpacity>
        );
      })}
    </View>
  );
}
// ...
<Tab.Navigator tabBar={props => <MyTabBar {...props} />}>
  {...}
</Tab.Navigator>
```

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This example will render a basic tab bar with labels.

Note that you **cannot** use the useNavigation hook inside the tabBar since useNavigation is only available inside screens. You get a navigation prop for your tabBar which you can use instead:

```
navigation.navigate('SomeScreen');
     }}
    />
    );
}
```

Options

The following options can be used to configure the screens in the navigator:

Example:

```
<Tab.Navigator
screenOptions={{
   tabBarLabelStyle: { fontSize: 12 },
   tabBarItemStyle: { width: 100 },
   tabBarStyle: { backgroundColor: 'powderblue' },
  }}
>
  {/* ... */}
</Tab.Navigator>
```

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title

Generic title that can be used as a fallback for headerTitle and tabBarLabel.

tabBarLabel

Title string of a tab displayed in the tab bar or a function that given { focused: boolean, color: string } returns a React.Node, to display in tab bar. When undefined, scene title is used. To hide, see tabBarShowLabel option.

tabBarAccessibilityLabel

Accessibility label for the tab button. This is read by the screen reader when the user taps the tab. It's recommended to set this if you don't have a label for the tab.

tabBarAllowFontScaling

Whether label font should scale to respect Text Size accessibility settings.

tabBarShowLabel

Whether the tab label should be visible. Defaults to true.

tabBarIcon

Function that given { focused: boolean, color: string } returns a React.Node, to display in the tab bar.

tabBarShowIcon

Whether the tab icon should be visible. Defaults to false.

tabBarBadge

Function that returns a React element to use as a badge for the tab.

tabBarIndicator

Function that returns a React element as the tab bar indicator.

tabBarIndicatorStyle

Style object for the tab bar indicator.

tabBarIndicatorContainerStyle

Style object for the view containing the tab bar indicator.

tabBarTestID

ID to locate this tab button in tests.

tabBarActiveTintColor

Color for the icon and label in the active tab.

tabBarInactiveTintColor

Color for the icon and label in the inactive tabs.

tabBarGap

Spacing between the tab items in the tab bar.

Example:

```
<Tab.Navigator

//...
screenOptions={{
   tabBarGap: 10,
   }}
>
</Tab.Navigator>
```

tabBarAndroidRipple

Allows to customize the android ripple effect.

Example:

```
<Tab.Navigator

//...
screenOptions={{
   tabBarAndroidRipple: { borderless: false },
  }}
>
</Tab.Navigator>
```

tabBarPressColor

Color for material ripple.

Only supported on Android.

tabBarPressOpacity

Opacity for pressed tab.

Only supported on iOS.

tabBarBounces

Boolean indicating whether the tab bar bounces when overscrolling.

tabBarScrollEnabled

Boolean indicating whether to make the tab bar scrollable.

If you set this to true, you should also specify a width in tabBarItemStyle to improve the performance of initial render.

tabBarIconStyle

Style object for the tab icon container.

tabBarLabelStyle

Style object for the tab label.

tabBarItemStyle

Style object for the individual tab items.

tabBarContentContainerStyle

Style object for the view containing the tab items.

tabBarStyle

Style object for the tab bar.

swipeEnabled

Boolean indicating whether to enable swipe gestures. Swipe gestures are enabled by default.

Passing false will disable swipe gestures, but the user can still switch tabs by pressing the tab bar.

lazy

Whether this screen should be lazily rendered. When this is set to true, the screen will be rendered as it comes into the viewport. By default all screens are rendered to provide a smoother swipe experience. But you might want to defer the rendering of screens out of the viewport until the user sees them. To enable lazy rendering for this screen, set lazy to true.

When you enable <code>[lazy]</code>, the lazy loaded screens will usually take some time to render when they come into the viewport. You can use the <code>[lazyPlaceholder]</code> prop to customize what the user sees during this short period.

lazyPreloadDistance

When lazy is enabled, you can specify how many adjacent screens should be preloaded in advance with this prop. This value defaults to 0 which means lazy pages are loaded as they come into the viewport.

lazyPlaceholder

Function that returns a React element to render if this screen hasn't been rendered yet. The lazy option also needs to be enabled for this to work.

This view is usually only shown for a split second. Keep it lightweight.

By default, this renders null.

Events

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

tabPress

This event is fired when the user presses the tab button for the current screen in the tab bar. By default a tab press does several things:

- If the tab is not focused, tab press will focus that tab
- If the tab is already focused:
 - If the screen for the tab renders a scroll view, you can use useScrollToTop to scroll it to top

o If the screen for the tab renders a stack navigator, a popToTop action is performed on the stack

To prevent the default behavior, you can call event.preventDefault:

```
React.useEffect(() => {
   const unsubscribe = navigation.addListener('tabPress', (e) => {
        // Prevent default behavior
        e.preventDefault();

        // Do something manually
        // ...
    });

   return unsubscribe;
}, [navigation]);
```

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tabLongPress

This event is fired when the user presses the tab button for the current screen in the tab bar for an extended period.

Example:

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

Helpers

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

```
jumpTo
```

Navigates to an existing screen in the tab navigator. The method accepts following arguments:

- name string Name of the route to jump to.
- params object Screen params to pass to the destination route.

```
navigation.jumpTo('Profile', { name: 'Michaś' });
```

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Example

```
import { createMaterialTopTabNavigator } from '@react-navigation/material-top-
tabs';
const Tab = createMaterialTopTabNavigator();
function MyTabs() {
 return (
   <Tab.Navigator
     initialRouteName="Feed"
      screenOptions={{
        tabBarActiveTintColor: '#e91e63',
        tabBarLabelStyle: { fontSize: 12 },
        tabBarStyle: { backgroundColor: 'powderblue' },
      }}
      <Tab.Screen
        name="Feed"
        component={Feed}
        options={{ tabBarLabel: 'Home' }}
      />
      <Tab.Screen
        name="Notifications"
        component={Notifications}
        options={{ tabBarLabel: 'Updates' }}
      />
      <Tab.Screen
        name="Profile"
        component={Profile}
        options={{ tabBarLabel: 'Profile' }}
```

```
/>
  </Tab.Navigator>
);
}
```

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