Drawer

The navigation drawers (or "sidebars") provide ergonomic access to destinations in a site or app functionality such as switching accounts.

A navigation drawer can either be permanently on-screen or controlled by a navigation menu icon.

Side sheets ↗ are supplementary surfaces primarily used on tablet and desktop.

View as Markdown Feedback Bundle size Source Material Design Figma Sketch

Temporary drawer

Temporary navigation drawers can toggle open or closed. Closed by default, the drawer opens temporarily above all other content until a section is selected.

The Drawer can be cancelled by clicking the overlay or pressing the Esc key. It closes when an item is selected, handled by controlling the `open` prop.

OPEN DRAWER

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```
import * as React from 'react';
import Box from '@mui/material/Box';
import Drawer from '@mui/material/Drawer';
import Button from '@mui/material/Button';
import List from '@mui/material/List';
import Divider from '@mui/material/Divider';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import MailIcon from '@mui/icons-material/Mail';
```

```
export default function TemporaryDrawer() {
  const [open, setOpen] = React.useState(false);

  const toggleDrawer = (newOpen: boolean) => () => {
    setOpen(newOpen);
  };

  const DrawerList = (
    <Box sx={{ width: 250 }} role="presentation" onClick={toggleDrawer(false)}>
      <List>
        {['Inbox', 'Starred', 'Send email', 'Drafts'].map((text, index) => (
          <ListItem key={text} disablePadding>
            <ListItemButton>
              <ListItemIcon>
                {index % 2 === 0 ? <InboxIcon /> : <MailIcon />}
              </ListItemIcon>
              <ListItemText primary={text} />
            </ListItemButton>
          </ListItem>
        ))}
      </List>
      <Divider />
      <List>
        {['All mail', 'Trash', 'Spam'].map((text, index) => (
          <ListItem key={text} disablePadding>
```

Anchor

Use the `anchor` prop to specify which side of the screen the Drawer should originate from.

The default value is `left`.

LEFT RIGHT TOP BOTTOM

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```
import * as React from 'react';
import Box from '@mui/material/Box';
import Drawer from '@mui/material/Drawer';
import Button from '@mui/material/Button';
import List from '@mui/material/List';
import Divider from '@mui/material/Divider';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import MailIcon from '@mui/icons-material/Mail';
```

```
type Anchor = 'top' | 'left' | 'bottom' | 'right';

export default function AnchorTemporaryDrawer() {
  const [state, setState] = React.useState({
    top: false,
    left: false,
    bottom: false,
    right: false,
  });

  const toggleDrawer =
    (anchor: Anchor, open: boolean) =>
    (event: React.KeyboardEvent | React.MouseEvent) => {
      if (
        event.type === 'keydown' &&
        ((event as React.KeyboardEvent).key === 'Tab' ||
          (event as React.KeyboardEvent).key === 'Shift')
      ) {
        return;
      }

      setState({ ...state, [anchor]: open });
    };
```

Swipeable

You can make the drawer swipeable with the `SwipeableDrawer` component.

This component comes with a 2 kB gzipped payload overhead. Some low-end mobile devices won't be able to follow the fingers at 60 FPS. You can use the `disableBackdropTransition` prop to help.

LEFT RIGHT TOP BOTTOM

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```
import * as React from 'react';
import Box from '@mui/material/Box';
import SwipeableDrawer from '@mui/material/SwipeableDrawer';
import Button from '@mui/material/Button';
import List from '@mui/material/List';
import Divider from '@mui/material/Divider';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import MailIcon from '@mui/icons-material/Mail';

type Anchor = 'top' | 'left' | 'bottom' | 'right';
```

```
export default function SwipeableTemporaryDrawer() {
  const [state, setState] = React.useState({
    top: false,
    left: false,
    bottom: false,
    right: false,
  });

  const toggleDrawer =
    (anchor: Anchor, open: boolean) =>
    (event: React.KeyboardEvent | React.MouseEvent) => {
      if (
        event &&
        event.type === 'keydown' &&
        ((event as React.KeyboardEvent).key === 'Tab' ||
          (event as React.KeyboardEvent).key === 'Shift')
      ) {
        return;
      }

      setState({ ...state, [anchor]: open });
    };
```

The following properties are used in this documentation website for optimal usability of the component:

- iOS is hosted on high-end devices. The backdrop transition can be enabled without dropping frames. The performance will be good enough.
- iOS has a "swipe to go back" feature that interferes with the discovery feature, so discovery has to be disabled.

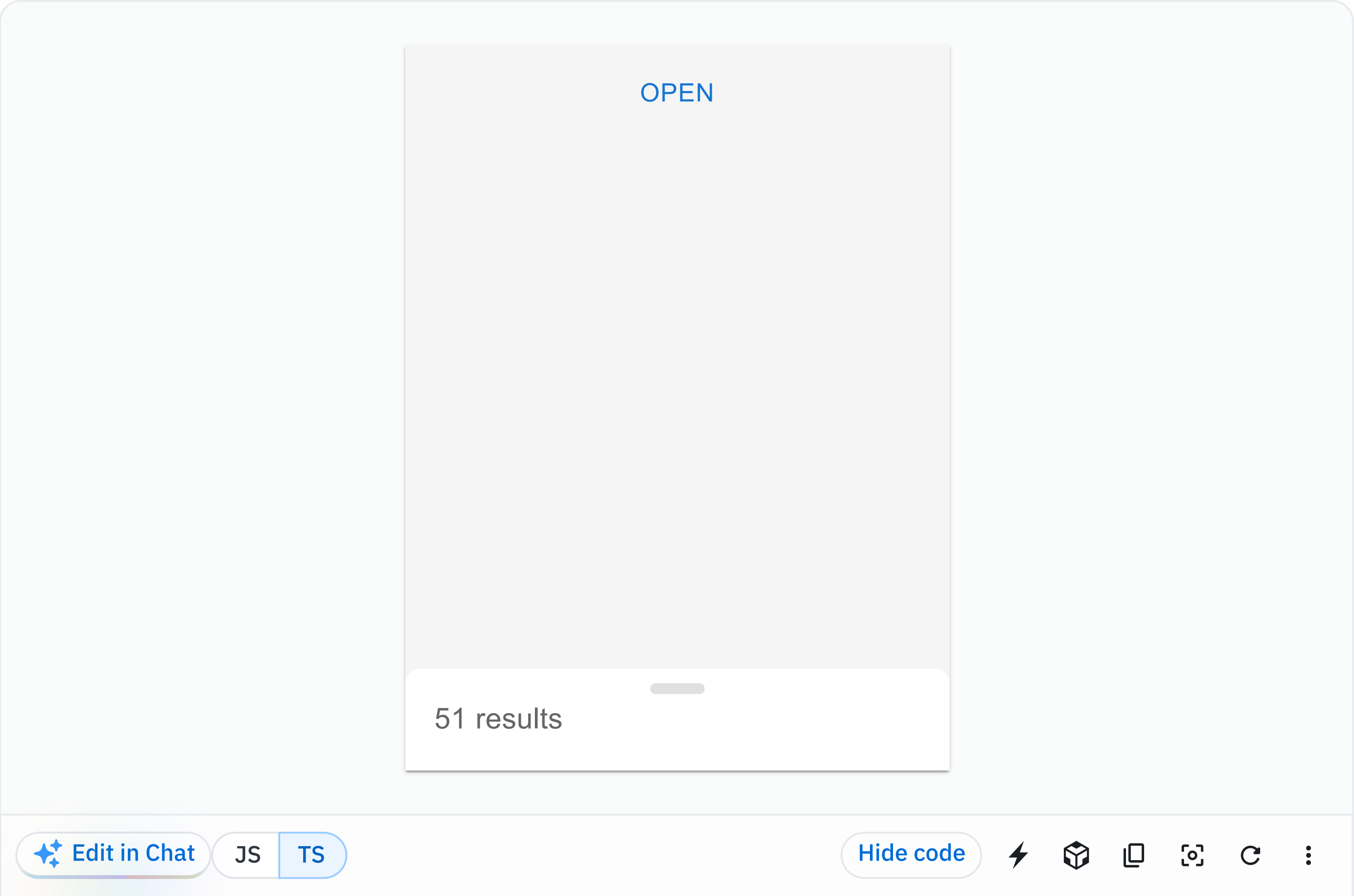
```
const iOS =
  typeof navigator !== 'undefined' && /iPad|iPhone|iPod/.test(navigator.userAgent);

<SwipeableDrawer disableBackdropTransition={!iOS} disableDiscovery={iOS} />;
```

Swipeable edge

You can configure the `SwipeableDrawer` to have a visible edge when closed.

If you are on a desktop, you can toggle the drawer with the "OPEN" button. If you are on mobile, you can open the demo in CodeSandbox ("edit" icon) and swipe.



```
import * as React from 'react';
import { Global } from '@emotion/react';
import { styled } from '@mui/material/styles';
import CssBaseline from '@mui/material/CssBaseline';
import { grey } from '@mui/material/colors';
import Button from '@mui/material/Button';
import Box from '@mui/material/Box';
import Skeleton from '@mui/material/Skeleton';
import Typography from '@mui/material/Typography';
import SwipeableDrawer from '@mui/material/SwipeableDrawer';

const drawerBleeding = 56;

interface Props {
  /**
   * Injected by the documentation to work in an iframe.
   * You won't need it on your project.
   */
  window?: () => Window;
}

const Root = styled('div')(({ theme }) => ({
  height: '100%',
  backgroundColor: grey[100],
  ...theme.applyStyles('dark', {
    backgroundColor: (theme.vars || theme).palette.background.default,
  }),
}));

const StyledBox = styled('div')(({ theme }) => ({
  backgroundColor: '#fff',
  ...theme.applyStyles('dark', {
    backgroundColor: grey[800],
  }),
}));

const Puller = styled('div')(({ theme }) => ({
  width: 30,
```

Keep mounted

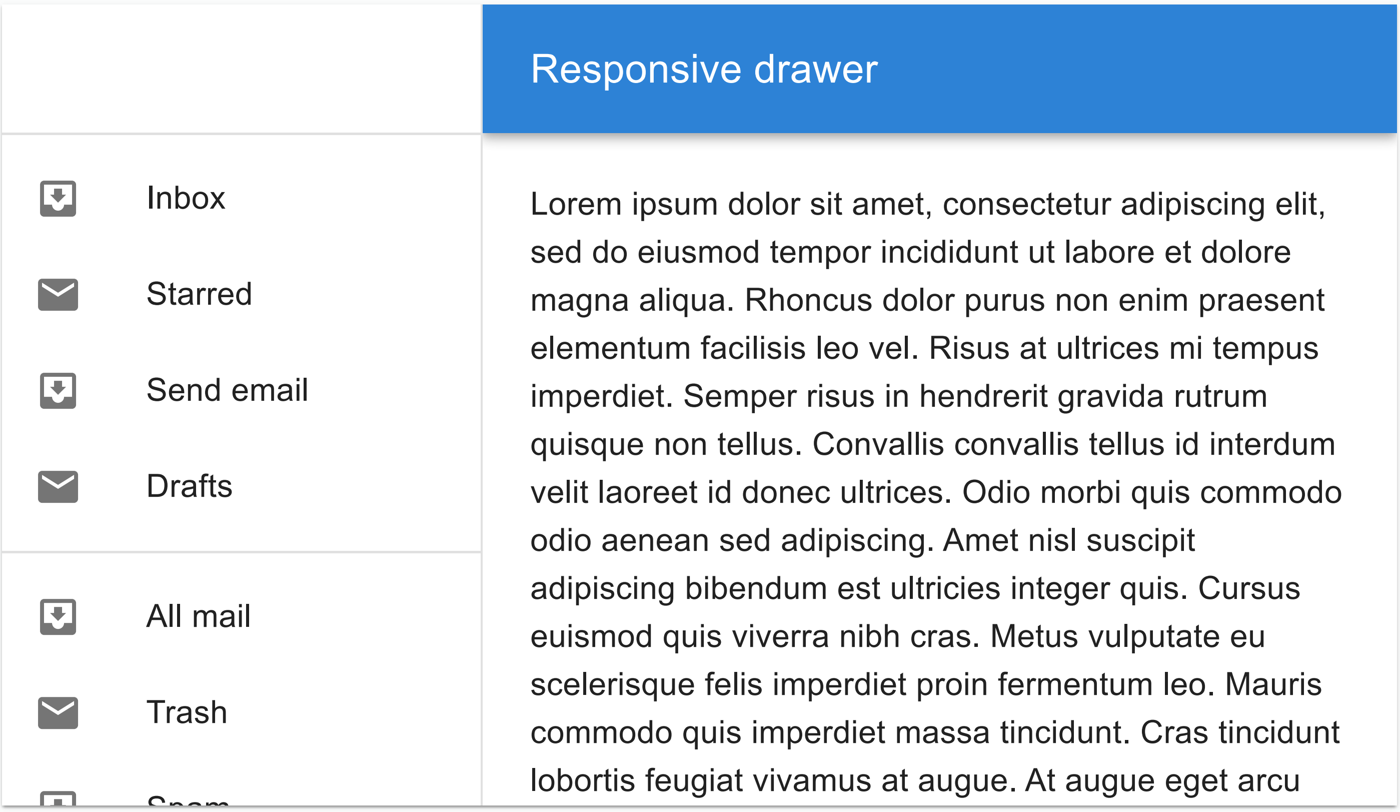
The Modal used internally by the Swipeable Drawer has the `keepMounted` prop set by default. This means that the contents of the drawer are always present in the DOM.

You can change this default behavior with the `ModalProps` prop, but you may encounter issues with `keepMounted: false` in React 18.

```
<Drawer
  variant="temporary"
  ModalProps={{
    keepMounted: false,
  }}
/>
```

Responsive drawer

You can use the `temporary` variant to display a drawer for small screens and `permanent` for a drawer for wider screens.



Responsive drawer

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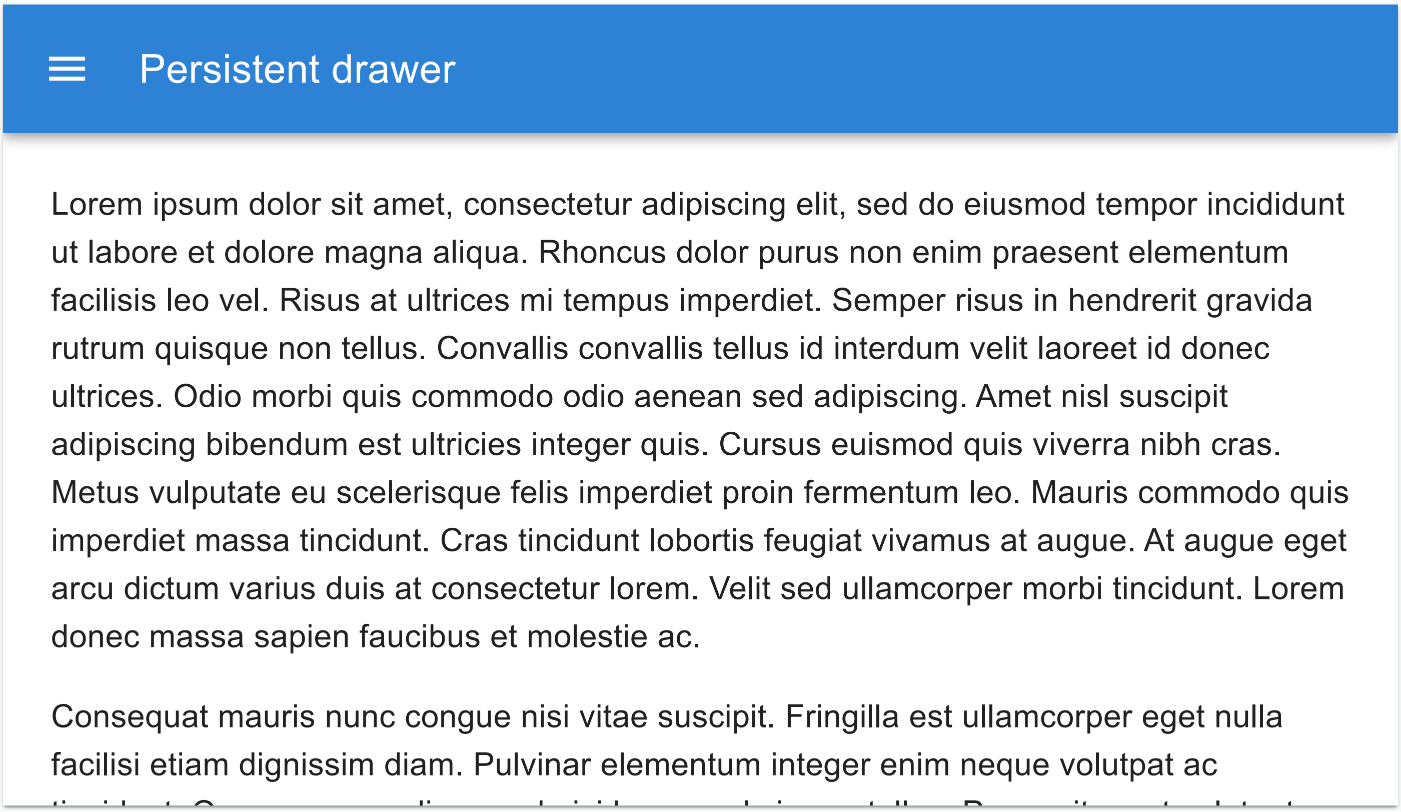
```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import CssBaseline from '@mui/material/CssBaseline';
import Divider from '@mui/material/Divider';
import Drawer from '@mui/material/Drawer';
import IconButton from '@mui/material/IconButton';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import MailIcon from '@mui/icons-material/Mail';
import MenuIcon from '@mui/icons-material/Menu';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';

const drawerWidth = 240;

interface Props {
  /**
   * Injected by the documentation to work in an iframe.
   * Remove this when copying and pasting into your project.
   */
  window?: () => Window;
}

export default function ResponsiveDrawer(props: Props) {
  const { window } = props;
  const [mobileOpen, setMobileOpen] = React.useState(false);
  const [isClosing, setIsClosing] = React.useState(false);

  const handleDrawerClose = () => {
    setIsClosing(true);
    setMobileOpen(false);
  };
```

Persistent drawer

Persistent navigation drawers can toggle open or closed. The drawer sits on the same surface elevation as the content. It is closed by default and opens by selecting the menu icon, and stays open until closed by the user. The state of the drawer is remembered from action to action and session to session.

When the drawer is outside of the page grid and opens, the drawer forces other content to change size and adapt to the smaller viewport.

Persistent navigation drawers are acceptable for all sizes larger than mobile. They are not recommended for apps with multiple levels of hierarchy that require using an up arrow for navigation.



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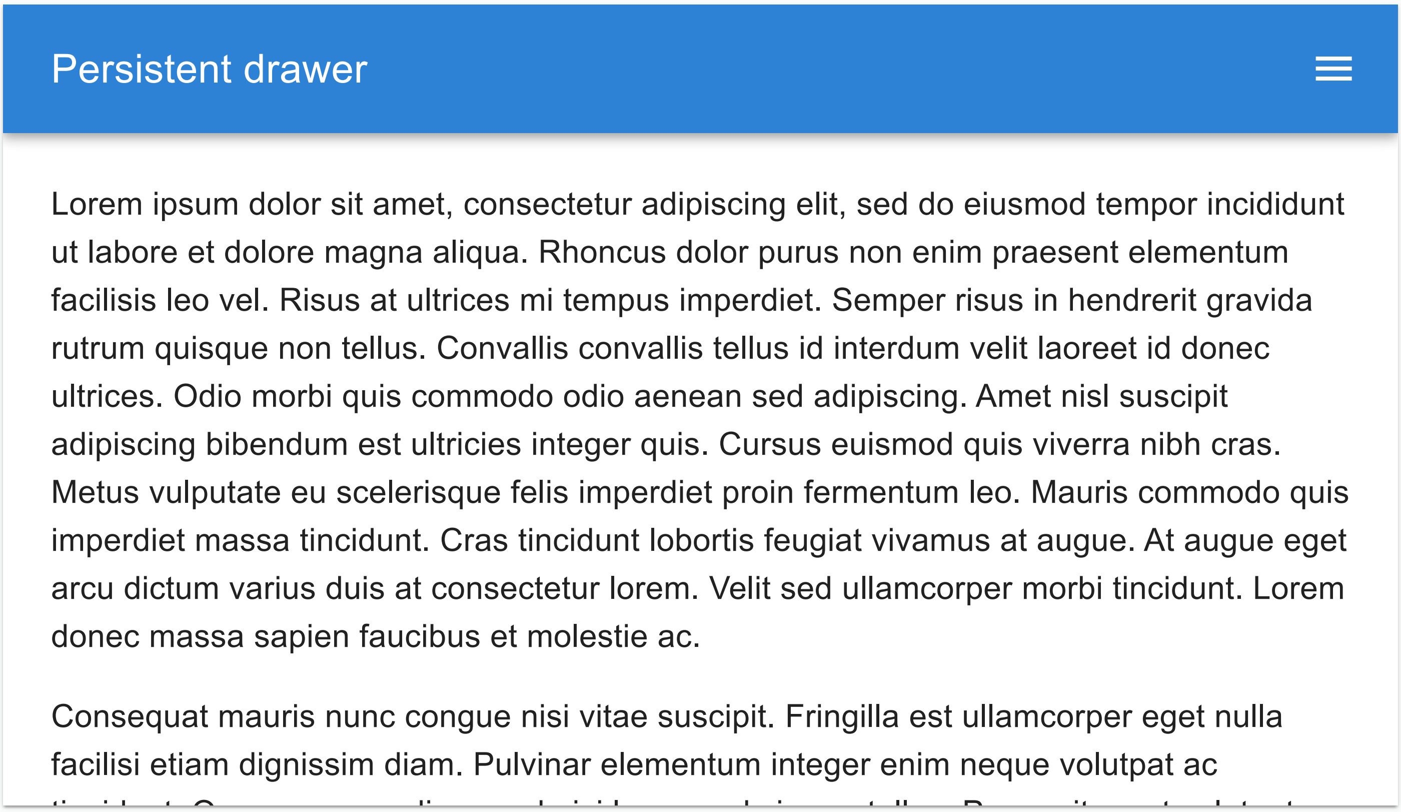
```
import * as React from 'react';
import { styled, useTheme } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Drawer from '@mui/material/Drawer';
import CssBaseline from '@mui/material/CssBaseline';
import MuiAppBar, { AppBarProps as MuiAppBarProps } from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import List from '@mui/material/List';
import Typography from '@mui/material/Typography';
import Divider from '@mui/material/Divider';
import IconButton from '@mui/material/IconButton';
import MenuIcon from '@mui/icons-material/Menu';
import ChevronLeftIcon from '@mui/icons-material/ChevronLeft';
import ChevronRightIcon from '@mui/icons-material/ChevronRight';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import MailIcon from '@mui/icons-material/Mail';

const drawerWidth = 240;

const Main = styled('main', { shouldForwardProp: (prop) => prop !== 'open' })<{
  open?: boolean;
}>(({ theme }) => ({
  flexGrow: 1,
  padding: theme.spacing(3),
  transition: theme.transitions.create('margin', {
    easing: theme.transitions.easing.sharp,
    duration: theme.transitions.duration.leavingScreen,
  }),
  marginLeft: `-${drawerWidth}px`,
  variants: [
    {
      props: ({ open }) => open,
      style: {
        transition: theme.transitions.create('margin', {
```



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Consequat mauris nunc congue nisi vitae suscipit. Fringilla est ullamcorper eget nulla facilisi etiam dignissim diam. Pulvinar elementum integer enim neque volutpat ac

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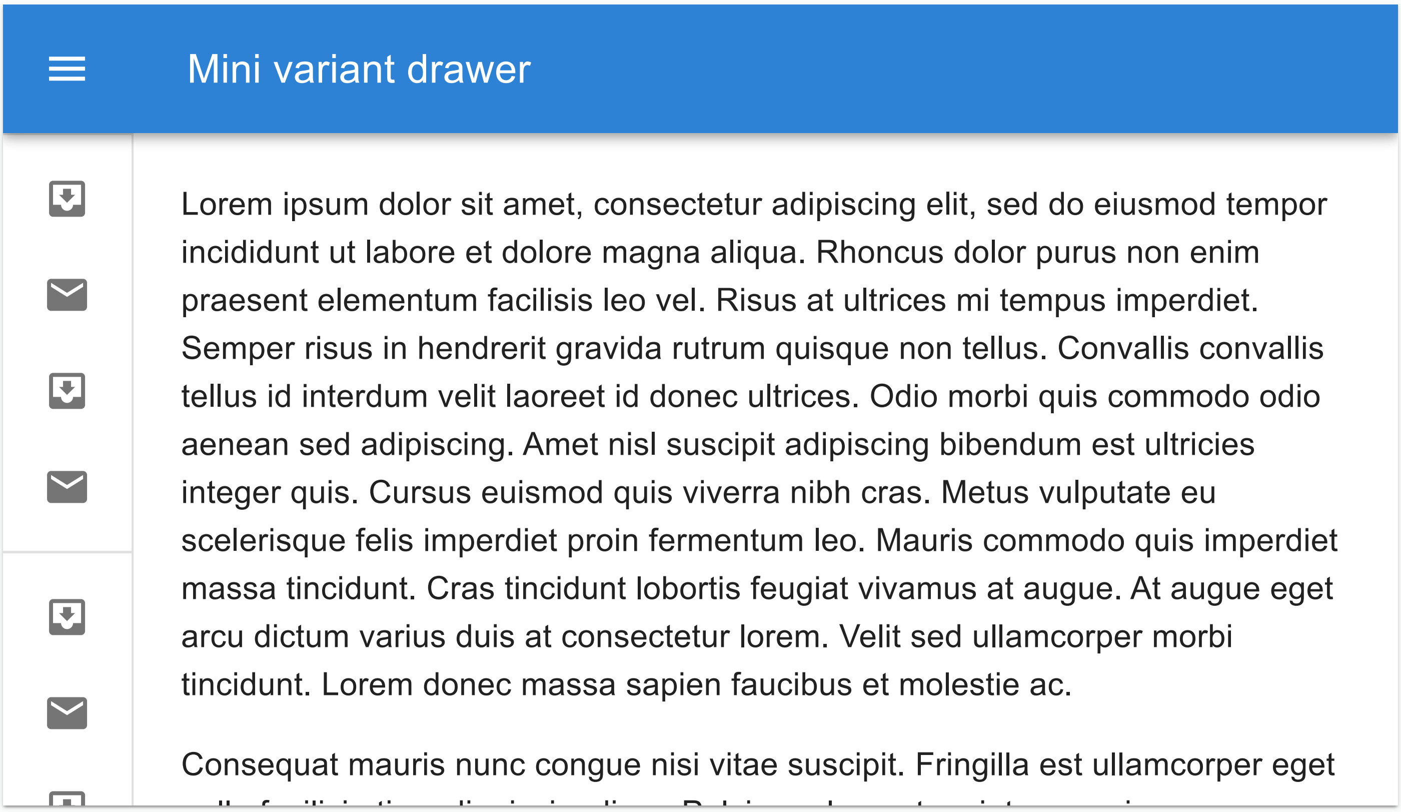
```
import * as React from 'react';
import { styled, useTheme } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Drawer from '@mui/material/Drawer';
import MuiAppBar, { AppBarProps as MuiAppBarProps } from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import CssBaseline from '@mui/material/CssBaseline';
import List from '@mui/material/List';
import Typography from '@mui/material/Typography';
import Divider from '@mui/material/Divider';
import IconButton from '@mui/material/IconButton';
import MenuIcon from '@mui/icons-material/Menu';
import ChevronLeftIcon from '@mui/icons-material/ChevronLeft';
import ChevronRightIcon from '@mui/icons-material/ChevronRight';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import MailIcon from '@mui/icons-material/Mail';

const drawerWidth = 240;

const Main = styled('main', { shouldForwardProp: (prop) => prop !== 'open' })<{
  open?: boolean;
}>(({ theme }) => ({
  flexGrow: 1,
  padding: theme.spacing(3),
  transition: theme.transitions.create('margin', {
    easing: theme.transitions.easing.sharp,
    duration: theme.transitions.duration.leavingScreen,
  }),
  marginRight: -drawerWidth,
  /**
   * This is necessary to enable the selection of content. In the DOM, the stacking order is determine
   * by the order of appearance. Following this rule, elements appearing later in the markup will over
   * those that appear earlier. Since the Drawer comes after the Main content, this adjustment ensures
   * proper interaction with the underlying content.
```

Mini variant drawer

In this variation, the persistent navigation drawer changes its width. Its resting state is as a mini-drawer at the same elevation as the content, clipped by the app bar. When expanded, it appears as the standard persistent navigation drawer.

The mini variant is recommended for apps sections that need quick selection access alongside content.



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Consequat mauris nunc congue nisi vitae suscipit. Fringilla est ullamcorper eget

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```
import * as React from 'react';
import { styled, useTheme, Theme, CSSObject } from '@mui/material/styles';
import Box from '@mui/material/Box';
import MuiDrawer from '@mui/material/Drawer';
import MuiAppBar, { AppBarProps as MuiAppBarProps } from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import List from '@mui/material/List';
import CssBaseline from '@mui/material/CssBaseline';
import Typography from '@mui/material/Typography';
import Divider from '@mui/material/Divider';
import IconButton from '@mui/material/IconButton';
import MenuIcon from '@mui/icons-material/Menu';
import ChevronLeftIcon from '@mui/icons-material/ChevronLeft';
import ChevronRightIcon from '@mui/icons-material/ChevronRight';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import MailIcon from '@mui/icons-material/Mail';

const drawerWidth = 240;

const openedMixin = (theme: Theme): CSSObject => ({
  width: drawerWidth,
  transition: theme.transitions.create('width', {
    easing: theme.transitions.easing.sharp,
    duration: theme.transitions.duration.enteringScreen,
  }),
  overflowX: 'hidden',
});

const closedMixin = (theme: Theme): CSSObject => ({
  transition: theme.transitions.create('width', {
    easing: theme.transitions.easing.sharp,
    duration: theme.transitions.duration.leavingScreen,
  }),
  overflowX: 'hidden',
```

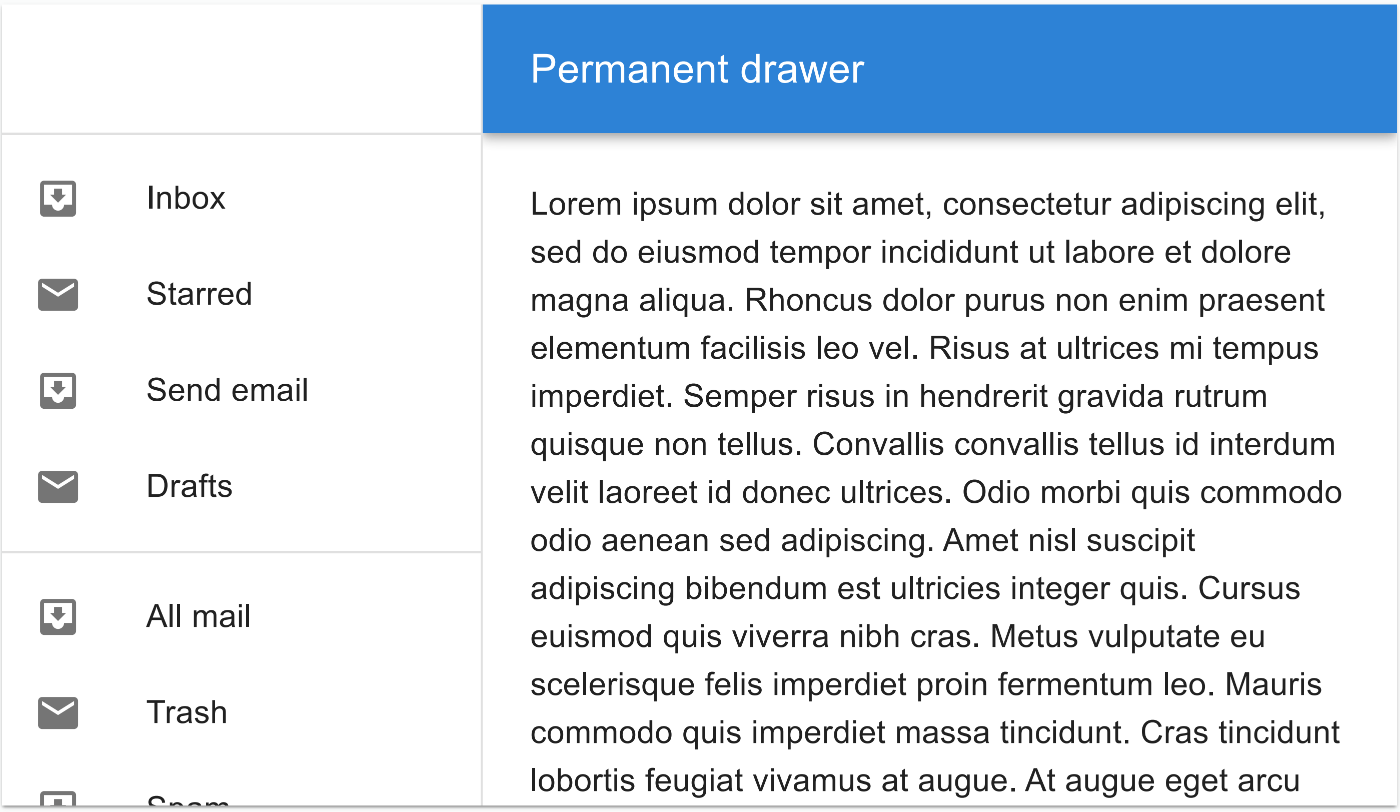
Permanent drawer

Permanent navigation drawers are always visible and pinned to the left edge, at the same elevation as the content or background. They cannot be closed.

Permanent navigation drawers are the **recommended default for desktop**.

Full-height navigation

Apps focused on information consumption that use a left-to-right hierarchy.



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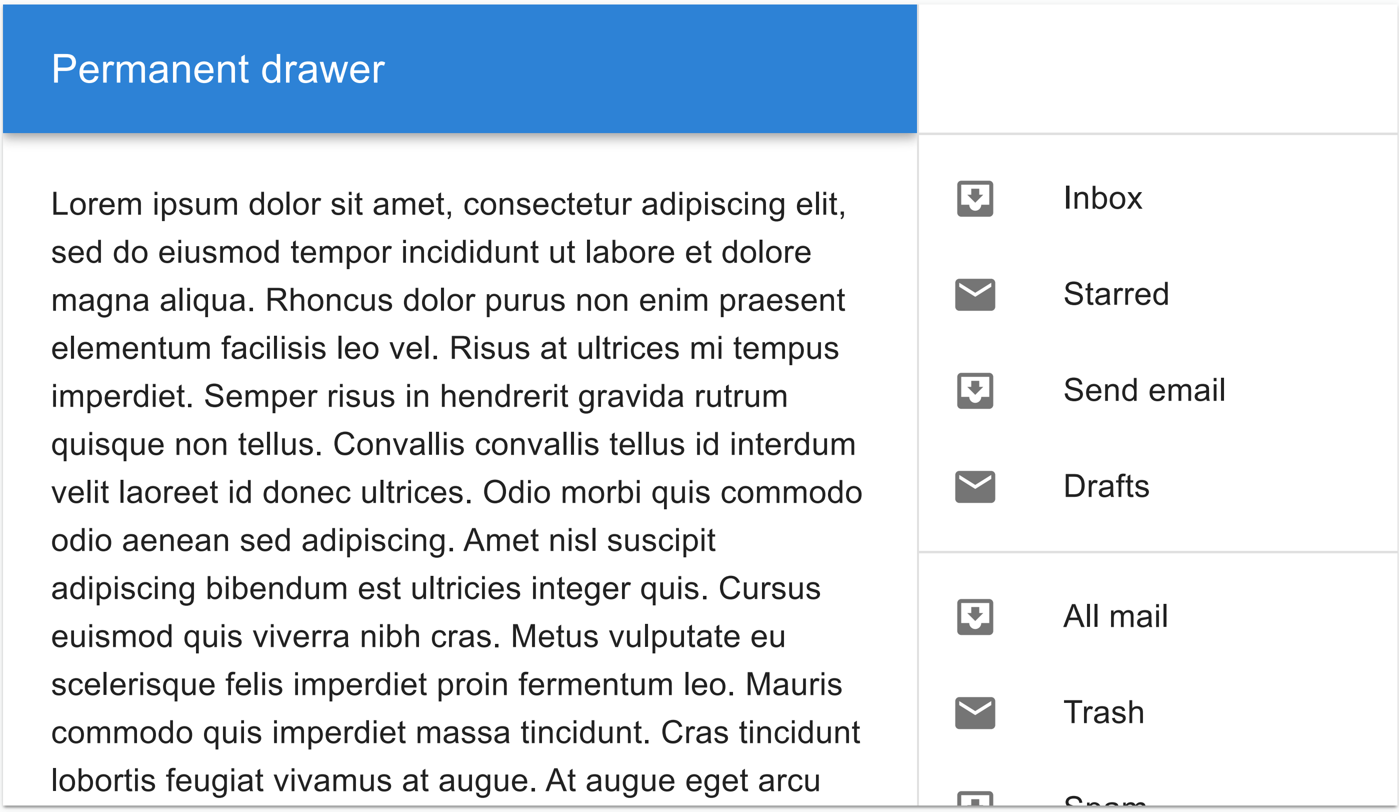
```tsx
import Box from '@mui/material/Box';
import Drawer from '@mui/material/Drawer';
import CssBaseline from '@mui/material/CssBaseline';
import AppBar from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import List from '@mui/material/List';
import Typography from '@mui/material/Typography';
import Divider from '@mui/material/Divider';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import MailIcon from '@mui/icons-material/Mail';

const drawerWidth = 240;

export default function PermanentDrawerLeft() {
  return (
    <Box sx={{ display: 'flex' }}>
      <CssBaseline />
      <AppBar
        position="fixed"
        sx={{ width: `calc(100% - ${drawerWidth}px)`, ml: `${drawerWidth}px` }}
      >
        <Toolbar>
          <Typography variant="h6" noWrap component="div">
            Permanent drawer
          </Typography>
        </Toolbar>
      </AppBar>
      <Drawer
        sx={{
          width: drawerWidth,
          flexShrink: 0,
          '& .MuiDrawer-paper': {
            width: drawerWidth,
            boxSizing: 'border-box',
```



Permanent drawer

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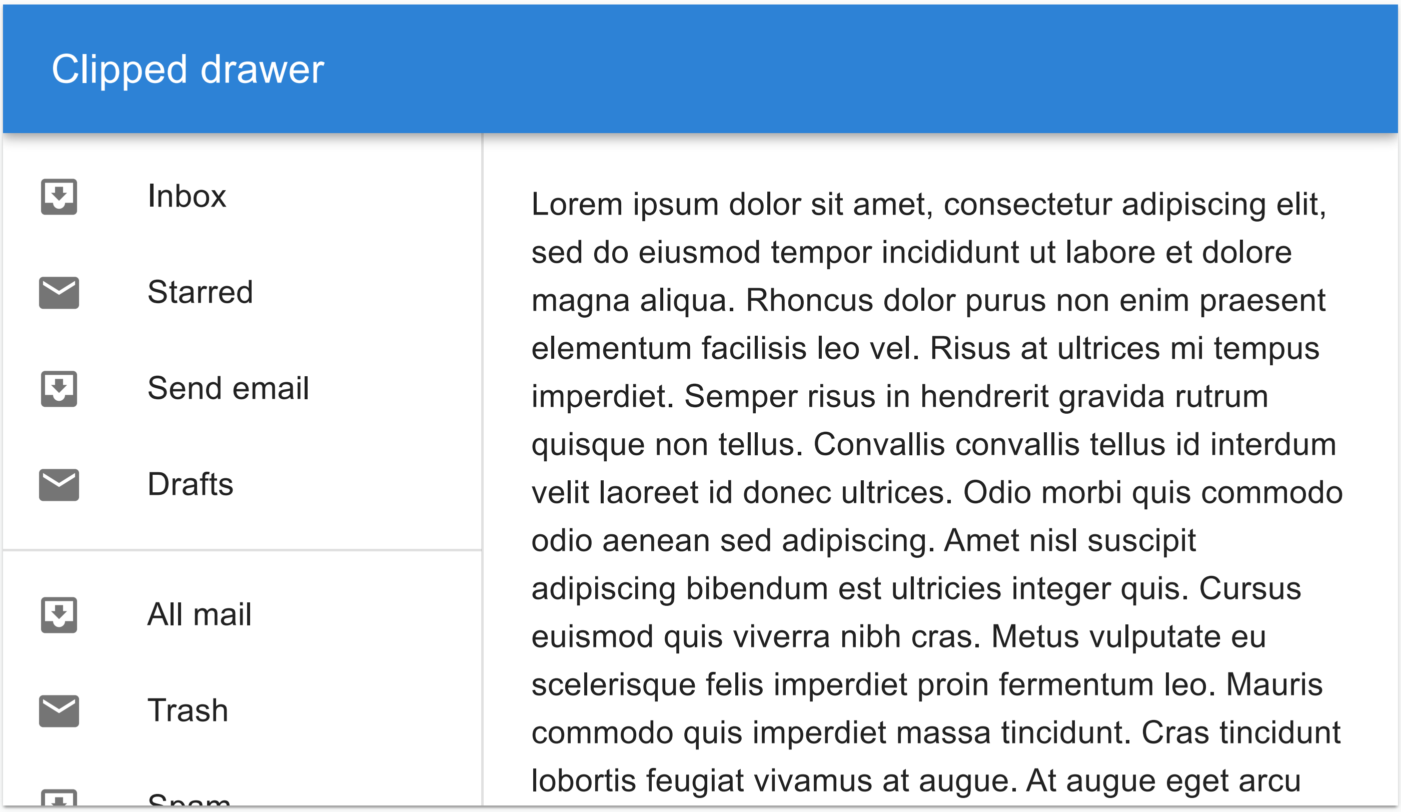
```
import Box from '@mui/material/Box';
import Drawer from '@mui/material/Drawer';
import CssBaseline from '@mui/material/CssBaseline';
import AppBar from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import List from '@mui/material/List';
import Typography from '@mui/material/Typography';
import Divider from '@mui/material/Divider';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import MailIcon from '@mui/icons-material/Mail';

const drawerWidth = 240;

export default function PermanentDrawerRight() {
  return (
    <Box sx={{ display: 'flex' }}>
```

```
      <CssBaseline />
      <AppBar
        position="fixed"
        sx={{ width: `calc(100% - ${drawerWidth}px)`, mr: `${drawerWidth}px` }}
      >
        <Toolbar>
          <Typography variant="h6" noWrap component="div">
            Permanent drawer
          </Typography>
        </Toolbar>
      </AppBar>
      <Box
        component="main"
        sx={{ flexGrow: 1, bgcolor: 'background.default', p: 3 }}
      >
        <Toolbar />
        <Typography sx={{ marginBottom: 2 }}>
          Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod
```

Clipped under the app bar

Apps focused on productivity that require balance across the screen.



Clipped drawer

- Inbox
- Starred
- Send email
- Drafts

- All mail
- Trash
- Spam

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```
import Box from '@mui/material/Box';
import Drawer from '@mui/material/Drawer';
import AppBar from '@mui/material/AppBar';
import CssBaseline from '@mui/material/CssBaseline';
import Toolbar from '@mui/material/Toolbar';
import List from '@mui/material/List';
import Typography from '@mui/material/Typography';
import Divider from '@mui/material/Divider';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import MailIcon from '@mui/icons-material/Mail';

const drawerWidth = 240;

export default function ClippedDrawer() {
  return (
    <Box sx={{ display: 'flex' }}>
      <CssBaseline />
      <AppBar position="fixed" sx={{ zIndex: (theme) => theme.zIndex.drawer + 1 }}>
        <Toolbar>
          <Typography variant="h6" noWrap component="div">
            Clipped drawer
          </Typography>
        </Toolbar>
      </AppBar>
      <Drawer
        variant="permanent"
        sx={{
          width: drawerWidth,
          flexShrink: 0,
          [`& .MuiDrawer-paper`]: { width: drawerWidth, boxSizing: 'border-box' },
        }}
      >
        <Toolbar />
        <Box sx={{ overflow: 'auto' }}>
```

API

See the documentation below for a complete reference to all of the props and classes available to the components mentioned here.

- `<Drawer />`
- `<SwipeableDrawer />`