App Bar

The App Bar displays information and actions relating to the current screen.

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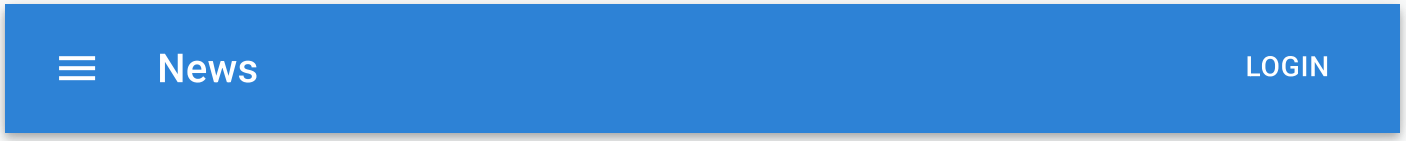
ads via Carbon

The top App bar provides content and actions related to the current screen. It's used for branding, screen titles, navigation, and actions.

It can transform into a contextual action bar or be used as a navbar.

View as Markdown | Feedback | Bundle size | Source | Material Design | Figma | Sketch

Basic App bar



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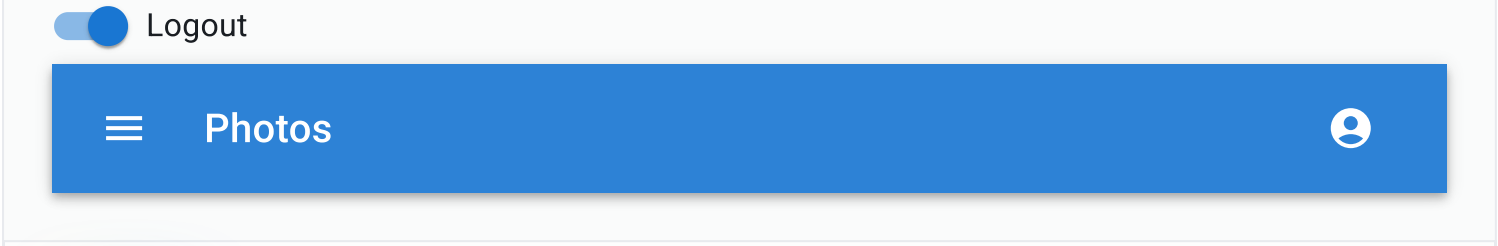
```
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import Button from '@mui/material/Button';
import IconButton from '@mui/material/IconButton';
import MenuIcon from '@mui/icons-material/Menu';

export default function ButtonAppBar() {
  return (
    <Box sx={{ flexGrow: 1 }}>
      <AppBar position="static">
        <Toolbar>
          <IconButton
            size="large"
            edge="start"
            color="inherit"
```

```
            aria-label="menu"
            sx={{ mr: 2 }}
          >
            <MenuIcon />
          </IconButton>
          <Typography variant="h6" component="div" sx={{ flexGrow: 1 }}>
            News
          </Typography>
          <Button color="inherit">Login</Button>
        </Toolbar>
      </AppBar>
    </Box>
  );
}
```

App bar with menu



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```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import IconButton from '@mui/material/IconButton';
import MenuIcon from '@mui/icons-material/Menu';
import AccountCircle from '@mui/icons-material/AccountCircle';
import Switch from '@mui/material/Switch';
import FormControlLabel from '@mui/material/FormControlLabel';
import FormGroup from '@mui/material/FormGroup';
import MenuItem from '@mui/material/MenuItem';
import Menu from '@mui/material/Menu';

export default function MenuAppBar() {
  const [auth, setAuth] = React.useState(true);
  const [anchorEl, setAnchorEl] = React.useState<null | HTMLElement>(null);

  const handleChange = (event: React.ChangeEvent<HTMLInputElement>) => {
    setAuth(event.target.checked);
  };

  const handleMenu = (event: React.MouseEvent<HTMLElement>) => {
    setAnchorEl(event.currentTarget);
```

```
  };

  const handleClose = () => {
    setAnchorEl(null);
  };

  return (
    <Box sx={{ flexGrow: 1 }}>
      <FormGroup>
        <FormControlLabel
          control={
            <Switch
              checked={auth}
```

App bar with responsive menu

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```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import IconButton from '@mui/material/IconButton';
import Typography from '@mui/material/Typography';
import Menu from '@mui/material/Menu';
import MenuIcon from '@mui/icons-material/Menu';
import Container from '@mui/material/Container';
import Avatar from '@mui/material/Avatar';
import Button from '@mui/material/Button';
import Tooltip from '@mui/material/Tooltip';
import MenuItem from '@mui/material/MenuItem';
import AdbIcon from '@mui/icons-material/Adb';

const pages = ['Products', 'Pricing', 'Blog'];
const settings = ['Profile', 'Account', 'Dashboard', 'Logout'];

function ResponsiveAppBar() {
  const [anchorElNav, setAnchorElNav] = React.useState<null | HTMLElement>(null);
  const [anchorElUser, setAnchorElUser] = React.useState<null | HTMLElement>(null);

  const handleOpenNavMenu = (event: React.MouseEvent<HTMLElement>) => {
    setAnchorElNav(event.currentTarget);
  };
  const handleOpenUserMenu = (event: React.MouseEvent<HTMLElement>) => {
    setAnchorElUser(event.currentTarget);
  };
```

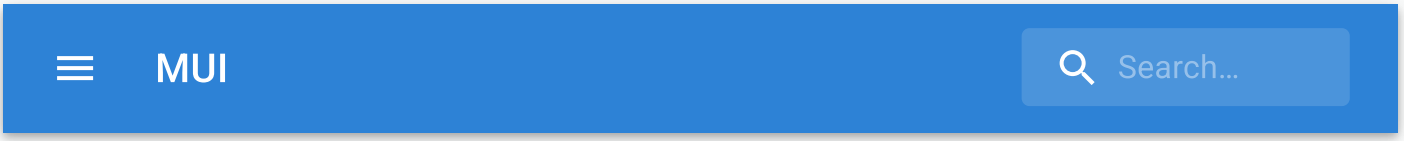
```
  const handleCloseNavMenu = () => {
    setAnchorElNav(null);
  };

  const handleCloseUserMenu = () => {
    setAnchorElUser(null);
  };

  return (
```

App bar with search field

A side searchbar.



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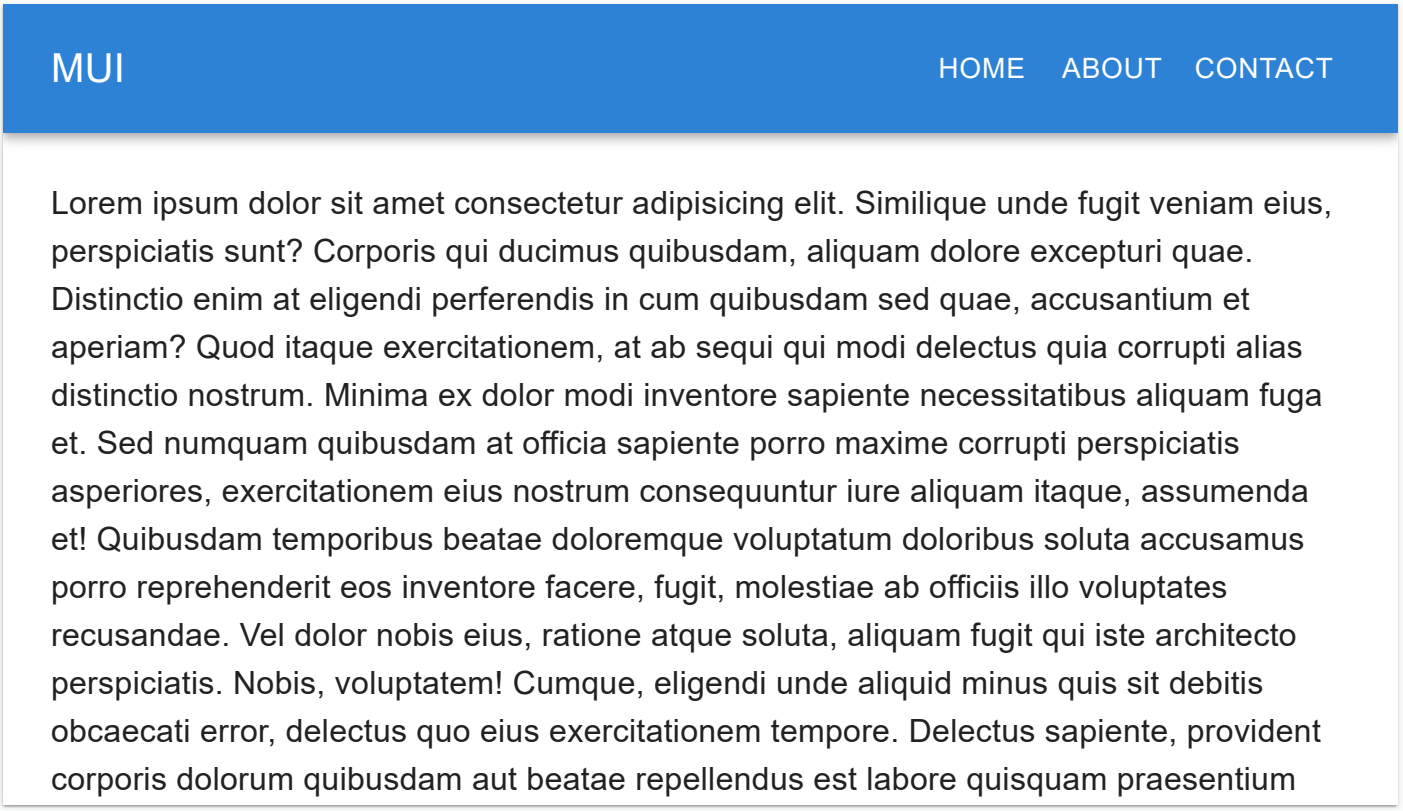
```
import { styled, alpha } from '@mui/material/styles';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import IconButton from '@mui/material/IconButton';
import Typography from '@mui/material/Typography';
import InputBase from '@mui/material/InputBase';
import MenuIcon from '@mui/icons-material/Menu';
import SearchIcon from '@mui/icons-material/Search';

const Search = styled('div')(({ theme }) => ({
  position: 'relative',
  borderRadius: theme.shape.borderRadius,
  backgroundColor: alpha(theme.palette.common.white, 0.15),
  '&:hover': {
    backgroundColor: alpha(theme.palette.common.white, 0.25),
  },
  marginLeft: 0,
  width: '100%',
  [theme.breakpoints.up('sm')]: {
    marginLeft: theme.spacing(1),
    width: 'auto',
  },
}));

const SearchIconWrapper = styled('div')(({ theme }) => ({
  padding: theme.spacing(0, 2),
  height: '100%',
  position: 'absolute',
```

```
  pointerEvents: 'none',
  display: 'flex',
  alignItems: 'center',
  justifyContent: 'center',
}));

const StyledInputBase = styled(InputBase)(({ theme }) => ({
  color: 'inherit',
  width: '100%',
```

Responsive App bar with Drawer



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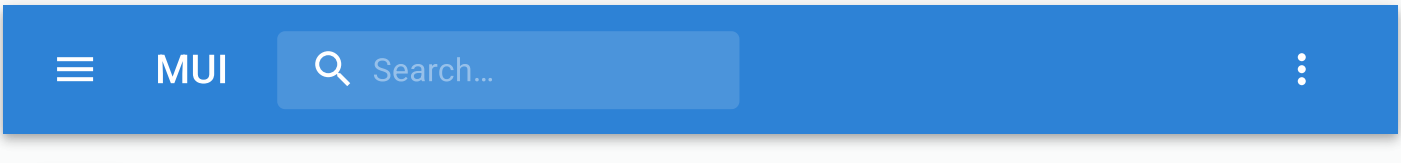
```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import CssBaseline from '@mui/material/CssBaseline';
import Divider from '@mui/material/Divider';
import Drawer from '@mui/material/Drawer';
import IconButton from '@mui/material/IconButton';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

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

const drawerWidth = 240;
const navItems = ['Home', 'About', 'Contact'];

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

  const handleDrawerToggle = () => {
    setMobileOpen((prevState) => !prevState);
  };

  const drawer = (
    <Box onClick={handleDrawerToggle} sx={{ textAlign: 'center' }}>
      <Typography variant="h6" sx={{ my: 2 }}>
```

App bar with a primary search field

A primary searchbar.



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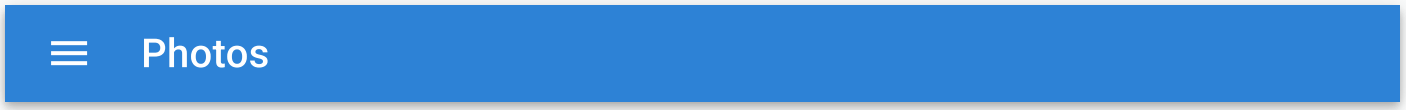
```tsx
import * as React from 'react';
import { styled, alpha } from '@mui/material/styles';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import IconButton from '@mui/material/IconButton';
import Typography from '@mui/material/Typography';
import InputBase from '@mui/material/InputBase';
import Badge from '@mui/material/Badge';
import MenuItem from '@mui/material/MenuItem';
import Menu from '@mui/material/Menu';
import MenuIcon from '@mui/icons-material/Menu';
import SearchIcon from '@mui/icons-material/Search';
import AccountCircle from '@mui/icons-material/AccountCircle';
import MailIcon from '@mui/icons-material/Mail';
import NotificationsIcon from '@mui/icons-material/Notifications';
```

```
import MoreIcon from '@mui/icons-material/MoreVert';

const Search = styled('div')(({ theme }) => ({
  position: 'relative',
  borderRadius: theme.shape.borderRadius,
  backgroundColor: alpha(theme.palette.common.white, 0.15),
  '&:hover': {
    backgroundColor: alpha(theme.palette.common.white, 0.25),
  },
  marginRight: theme.spacing(2),
  marginLeft: 0,
  width: '100%',
  [theme.breakpoints.up('sm')]: {
    marginLeft: theme.spacing(3),
    width: 'auto',
  },
}));

const SearchIconWrapper = styled('div')(({ theme }) => ({
  padding: theme.spacing(0, 2),
  height: '100%',
  position: 'absolute'
```

Dense (desktop only)



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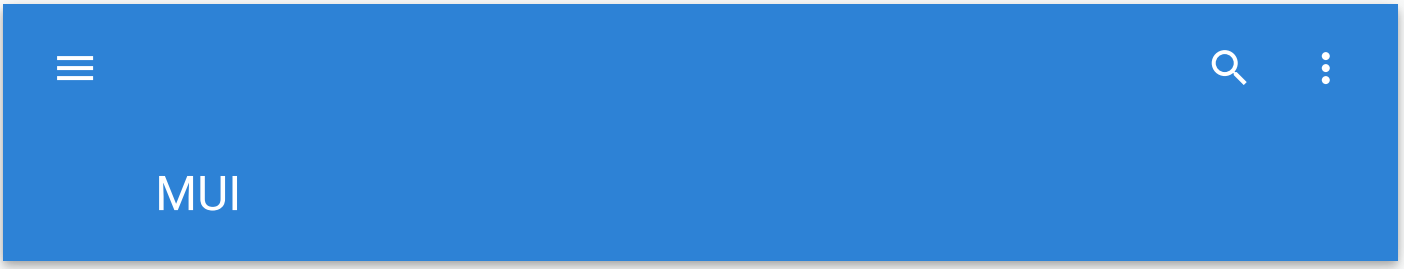
```
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import IconButton from '@mui/material/IconButton';
import MenuIcon from '@mui/icons-material/Menu';

export default function DenseAppBar() {
  return (
    <Box sx={{ flexGrow: 1 }}>
      <AppBar position="static">
        <Toolbar variant="dense">
          <IconButton edge="start" color="inherit" aria-label="menu" sx={{ mr: 2 }}>
            <MenuIcon />
          </IconButton>
          <Typography variant="h6" color="inherit" component="div">
            Photos
          </Typography>
        </Toolbar>
      </AppBar>
```

```
    </Box>
  );
}
```

Prominent

A prominent app bar.



Edit in Chat | JS | TS | Hide code

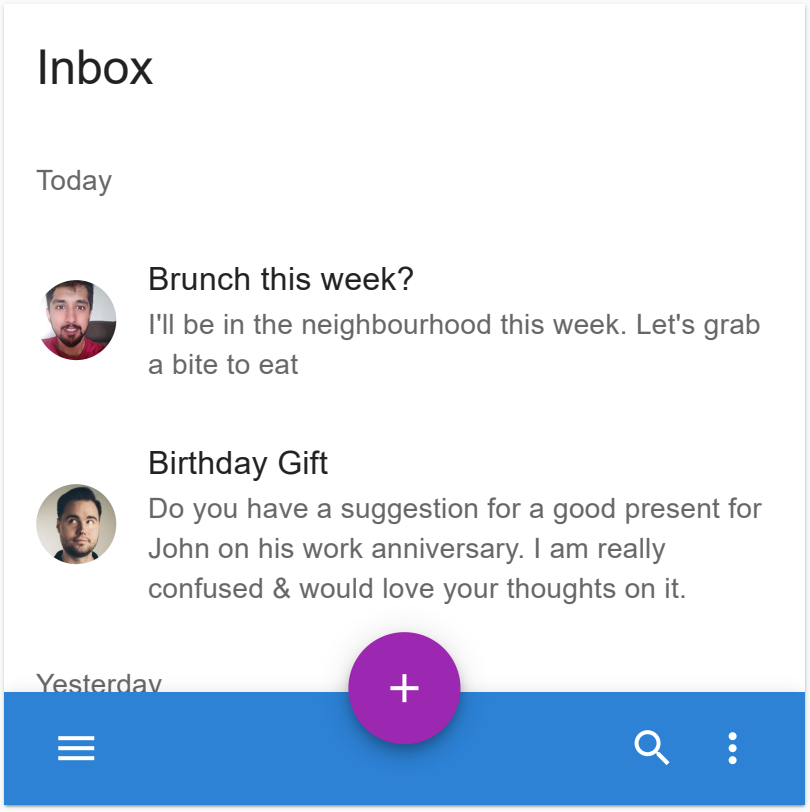
```tsx
import { styled } from '@mui/material/styles';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import IconButton from '@mui/material/IconButton';
import Typography from '@mui/material/Typography';
import MenuIcon from '@mui/icons-material/Menu';
import SearchIcon from '@mui/icons-material/Search';
import MoreIcon from '@mui/icons-material/MoreVert';

const StyledToolbar = styled(Toolbar)(({ theme }) => ({
  alignItems: 'flex-start',
  paddingTop: theme.spacing(1),
  paddingBottom: theme.spacing(2),
  // Override media queries injected by theme.mixins.toolbar
  '@media all': {
    minHeight: 128,
  },
}));

export default function ProminentAppBar() {
  return (
    <Box sx={{ flexGrow: 1 }}>
      <AppBar position="static">
        <StyledToolbar>
          <IconButton
            size="large"
            edge="start"
            color="inherit"
            aria-label="open drawer"
            sx={{ mr: 2 }}
          >
```

```
          <MenuIcon />
        </IconButton>
        <Typography
          variant="h5"
          noWrap
          component="div"
```

Bottom App bar



Edit in Chat | JS | TS | Hide code

```tsx
import * as React from 'react';
import { styled } from '@mui/material/styles';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import CssBaseline from '@mui/material/CssBaseline';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import IconButton from '@mui/material/IconButton';
import Paper from '@mui/material/Paper';
import Fab from '@mui/material/Fab';
import List from '@mui/material/List';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemAvatar from '@mui/material/ListItemAvatar';
import ListItemText from '@mui/material/ListItemText';
import ListSubheader from '@mui/material/ListSubheader';
import Avatar from '@mui/material/Avatar';
import MenuIcon from '@mui/icons-material/Menu';
import AddIcon from '@mui/icons-material/Add';
```

```
import SearchIcon from '@mui/icons-material/Search';
import MoreIcon from '@mui/icons-material/MoreVert';

const messages = [
  {
    id: 1,
    primary: 'Brunch this week?',
    secondary: "I'll be in the neighbourhood this week. Let's grab a bite to eat",
    person: '/static/images/avatar/5.jpg',
  },
  {
    id: 2,
    primary: 'Birthday Gift',
    secondary: `Do you have a suggestion for a good present for John on his work
      anniversary. I am really confused & would love your thoughts on it.`,
    person: '/static/images/avatar/1.jpg',
  },
  {
    id: 3,
    primary: 'Recipe to try',
```

Fixed placement

When you render the app bar position fixed, the dimension of the element doesn't impact the rest of the page. This can cause some part of your content to be invisible, behind the app bar. Here are 3 possible solutions:

1. You can use `position="sticky"` instead of fixed.
2. You can render a second `<Toolbar />` component:

```
function App() {
  return (
    <React.Fragment>
      <AppBar position="fixed">
        <Toolbar>{/* content */}</Toolbar>
      </AppBar>
      <Toolbar />
    </React.Fragment>
  );
}
```

3. You can use `theme.mixins.toolbar` CSS:

```
const Offset = styled('div')(({ theme }) => theme.mixins.toolbar);

function App() {
  return (
    <React.Fragment>
      <AppBar position="fixed">
```

```
        <Toolbar>{/* content */}</Toolbar>
      </AppBar>
      <Offset />
    </React.Fragment>
  );
}
```

Scrolling

You can use the `useScrollTrigger()` hook to respond to user scroll actions.

Hide App bar

The app bar hides on scroll down to leave more space for reading.

Scroll to hide App bar

Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac

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```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import CssBaseline from '@mui/material/CssBaseline';
import useScrollTrigger from '@mui/material/useScrollTrigger';
import Box from '@mui/material/Box';
import Container from '@mui/material/Container';
import Slide from '@mui/material/Slide';

interface Props {
  /**
   * Injected by the documentation to work in an iframe.
   * You won't need it on your project.
```

```tsx
   */
  window?: () => Window;
  children?: React.ReactElement<unknown>;
}

function HideOnScroll(props: Props) {
  const { children, window } = props;
  // Note that you normally won't need to set the window ref as useScrollTrigger
  // will default to window.
  // This is only being set here because the demo is in an iframe.
  const trigger = useScrollTrigger({
    target: window ? window() : undefined,
  });

  return (
    <Slide appear={false} direction="down" in={!trigger}>
      {children ?? <div />}
    </Slide>
  );
}

export default function HideAppBar(props: Props) {
  return (
    <React.Fragment>
```

Elevate App bar

The app bar elevates on scroll to communicate that the user is not at the top of the page.

Scroll to elevate App bar

Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac

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```tsx
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import CssBaseline from '@mui/material/CssBaseline';
import useScrollTrigger from '@mui/material/useScrollTrigger';
import Box from '@mui/material/Box';
import Container from '@mui/material/Container';

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

function ElevationScroll(props: Props) {
  const { children, window } = props;
  // Note that you normally won't need to set the window ref as useScrollTrigger
  // will default to window.
  // This is only being set here because the demo is in an iframe.
  const trigger = useScrollTrigger({
    disableHysteresis: true,
    threshold: 0,
    target: window ? window() : undefined,
  });

  return children
    ? React.cloneElement(children, {
        elevation: trigger ? 4 : 0,
      })
    : null;
}

export default function ElevateAppBar(props: Props) {
  return (
```

Back to top

A floating action button appears on scroll to make it easy to get back to the top of the page.

Scroll to see button

Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac consectetur ac, vestibulum at eros. Praesent commodo cursus magna, vel scelerisque nisl consectetur et. Cras mattis consectetur purus sit amet fermentum. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Morbi leo risus, porta ac

Edit in Chat JS TS Hide code

```tsx
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import CssBaseline from '@mui/material/CssBaseline';
import useScrollTrigger from '@mui/material/useScrollTrigger';
import Box from '@mui/material/Box';
import Container from '@mui/material/Container';
import Fab from '@mui/material/Fab';
import KeyboardArrowUpIcon from '@mui/icons-material/KeyboardArrowUp';
import Fade from '@mui/material/Fade';

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

function ScrollTop(props: Props) {
  const { children, window } = props;
  // Note that you normally won't need to set the window ref as useScrollTrigger
  // will default to window.
  // This is only being set here because the demo is in an iframe.
  const trigger = useScrollTrigger({
    target: window ? window() : undefined,
    disableHysteresis: true,
    threshold: 100,
  });
```

```
  const handleClick = (event: React.MouseEvent<HTMLDivElement>) => {
    const anchor = (
      (event.target as HTMLDivElement).ownerDocument || document
    ).querySelector('#back-to-top-anchor');

    if (anchor) {
```

`useScrollTrigger([options]) => trigger`

Arguments

1. `options` (*object* [optional]):
   - `options.disableHysteresis` (*bool* [optional]): Defaults to `false`. Disable the hysteresis. Ignore the scroll direction when determining the `trigger` value.
   - `options.target` (*Node* [optional]): Defaults to `window`.
   - `options.threshold` (*number* [optional]): Defaults to `100`. Change the `trigger` value when the vertical scroll strictly crosses this threshold (exclusive).

Returns

`trigger`: Does the scroll position match the criteria?

Examples

```
import useScrollTrigger from '@mui/material/useScrollTrigger';

function HideOnScroll(props) {
  const trigger = useScrollTrigger();
  return (
    <Slide in={!trigger}>
      <div>Hello</div>
    </Slide>
  );
}
```

Copy

Enable color on dark

Following the Material Design guidelines ↗, the `color` prop has no effect on the appearance of the app bar in dark mode. You can override this behavior by setting the `enableColorOnDark` prop to `true`.

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```tsx
import AppBar from '@mui/material/AppBar';
import Stack from '@mui/material/Stack';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import IconButton from '@mui/material/IconButton';
import MenuIcon from '@mui/icons-material/Menu';
import { ThemeProvider, createTheme } from '@mui/material/styles';

function appBarLabel(label: string) {
  return (
    <Toolbar>
      <IconButton edge="start" color="inherit" aria-label="menu" sx={{ mr: 2 }}>
        <MenuIcon />
      </IconButton>
      <Typography variant="h6" noWrap component="div" sx={{ flexGrow: 1 }}>
        {label}
      </Typography>
    </Toolbar>
  );
}

const darkTheme = createTheme({
  palette: {
    mode: 'dark',
    primary: {
      main: '#1976d2',
    },
  },
});

export default function EnableColorOnDarkAppBar() {
  return (
    <Stack spacing={2} sx={{ flexGrow: 1 }}>
      <ThemeProvider theme={darkTheme}>
        <AppBar position="static" color="primary" enableColorOnDark>
          {appBarLabel('enableColorOnDark')}
        </AppBar>
        <AppBar position="static" color="primary">
```

API

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

- `<AppBar />`
- `<Menu />`

- `<Toolbar />`

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