

# Breadcrumbs

A breadcrumbs is a list of links that help visualize a page's location within a site's hierarchical structure, it allows navigation up to any of the ancestors.



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## Basic breadcrumbs



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```
import * as React from 'react';
import Typography from '@mui/material/Typography';
import Breadcrumbs from '@mui/material/Breadcrumbs';
import Link from '@mui/material/Link';

function handleClick(event: React.MouseEvent<HTMLDivElement, MouseEvent>) {
  event.preventDefault();
  console.info('You clicked a breadcrumb.');
```

```
}

export default function BasicBreadcrumbs() {
  return (
    <div role="presentation" onClick={handleClick}>
      <Breadcrumbs aria-label="breadcrumb">
        <Link underline="hover" color="inherit" href="/">
          MUI
        </Link>
        <Link
          underline="hover"
          color="inherit"
          href="/material-ui/getting-started/installation/"
        >
          Core
        </Link>
        <Typography sx={{ color: 'text.primary' }}>Breadcrumbs</Typography>
```

```
</Breadcrumbs>
</div>
);
}
```

## Active last breadcrumb



Keep the last breadcrumb interactive.

MUI / Core / Breadcrumbs

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```
import * as React from 'react';
import Breadcrumbs from '@mui/material/Breadcrumbs';
import Link from '@mui/material/Link';

function handleClick(event: React.MouseEvent<HTMLDivElement, MouseEvent>) {
  event.preventDefault();
  console.info('You clicked a breadcrumb.');
```

```
}

export default function ActiveLastBreadcrumb() {
  return (
    <div role="presentation" onClick={handleClick}>
      <Breadcrumbs aria-label="breadcrumb">
        <Link underline="hover" color="inherit" href="/">
          MUI
        </Link>
        <Link
          underline="hover"
          color="inherit"
          href="/material-ui/getting-started/installation/"
        >
          Core
        </Link>
        <Link
          underline="hover"
          color="text.primary"
          href="/material-ui/react-breadcrumbs/"
          aria-current="page"
        >
          Breadcrumbs
        </Link>
      </Breadcrumbs>
    </div>
  );
}
```

# Custom separator



In the following examples, we are using two string separators and an SVG icon.

MUI > Core > Breadcrumb

MUI - Core - Breadcrumb

MUI > Core > Breadcrumb

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```
import * as React from 'react';
import Breadcrumbs from '@mui/material/Breadcrumbs';
import Typography from '@mui/material/Typography';
import Link from '@mui/material/Link';
import Stack from '@mui/material/Stack';
import NavigateNextIcon from '@mui/icons-material/NavigateNext';

function handleClick(event: React.MouseEvent<HTMLAnchorElement, MouseEvent>) {
  event.preventDefault();
  console.info('You clicked a breadcrumb.');
```

```
}

export default function CustomSeparator() {
  const breadcrumbs = [
    <Link underline="hover" key="1" color="inherit" href="/" onClick={handleClick}>
      MUI
    </Link>,
    <Link
      underline="hover"
      key="2"
      color="inherit"
      href="/material-ui/getting-started/installation/"
      onClick={handleClick}
    >
      Core
    </Link>,
    <Typography key="3" sx={{ color: 'text.primary' }}>
      Breadcrumb
    </Typography>,
  ];

  return (
    <Stack spacing={2}>
      <Breadcrumbs separator=">" aria-label="breadcrumb">
        {breadcrumbs}
      </Breadcrumbs>
      <Breadcrumbs separator="-" aria-label="breadcrumb">
        {breadcrumbs}
      </Breadcrumbs>
    </Stack>
  );
}
```

# Breadcrumbs with icons



🏠 MUI / 🔥 Core / ⚙️ Breadcrumb

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```
import * as React from 'react';
import Typography from '@mui/material/Typography';
import Breadcrumbs from '@mui/material/Breadcrumbs';
import Link from '@mui/material/Link';
import HomeIcon from '@mui/icons-material/Home';
import WhatshotIcon from '@mui/icons-material/Whatshot';
import GrainIcon from '@mui/icons-material/Grain';

function handleClick(event: React.MouseEvent<HTMLDivElement, MouseEvent>) {
  event.preventDefault();
  console.info('You clicked a breadcrumb.');
```

```
}

export default function IconBreadcrumbs() {
  return (
    <div role="presentation" onClick={handleClick}>
      <Breadcrumbs aria-label="breadcrumb">
        <Link
          underline="hover"
          sx={{ display: 'flex', alignItems: 'center' }}
          color="inherit"
          href="/"
        >
          <HomeIcon sx={{ mr: 0.5 }} fontSize="inherit" />
          MUI
        </Link>
        <Link
          underline="hover"
          sx={{ display: 'flex', alignItems: 'center' }}
          color="inherit"
          href="/material-ui/getting-started/installation/"
        >
          <WhatshotIcon sx={{ mr: 0.5 }} fontSize="inherit" />
          Core
        </Link>
        <Typography
          sx={{ color: 'text.primary', display: 'flex', alignItems: 'center' }}
        >
```

# Collapsed breadcrumbs



Home / ... / Belts

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```
import * as React from 'react';
import Breadcrumbs from '@mui/material/Breadcrumbs';
import Typography from '@mui/material/Typography';
import Link from '@mui/material/Link';

function handleClick(event: React.MouseEvent<HTMLDivElement, MouseEvent>) {
  event.preventDefault();
  console.info('You clicked a breadcrumb.');
```

```
export default function CollapsedBreadcrumbs() {
  return (
    <div role="presentation" onClick={handleClick}>
      <Breadcrumbs maxItems={2} aria-label="breadcrumb">
        <Link underline="hover" color="inherit" href="#">
          Home
        </Link>
        <Link underline="hover" color="inherit" href="#">
          Catalog
        </Link>
        <Link underline="hover" color="inherit" href="#">
          Accessories
        </Link>
        <Link underline="hover" color="inherit" href="#">
          New Collection
        </Link>
        <Typography sx={{ color: 'text.primary' }}>Belts</Typography>
      </Breadcrumbs>
    </div>
  );
}
```

# Condensed with menu



As an alternative, consider adding a Menu component to display the condensed links in a dropdown list:

[Breadcrumb 1](#) / ... / [Breadcrumb 5](#) / [Breadcrumb 6](#)

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```
import * as React from 'react';
import Breadcrumbs from '@mui/material/Breadcrumbs';
import Link from '@mui/material/Link';
import Menu from '@mui/material/Menu';
import MenuItem from '@mui/material/MenuItem';
import IconButton from '@mui/material/IconButton';
import MoreHorizIcon from '@mui/icons-material/MoreHoriz';

export default function CondensedWithMenu() {
  const [anchorEl, setAnchorEl] = React.useState<HTMLButtonElement | null>(null);
  const open = Boolean(anchorEl);

  const handleClick = (event: React.MouseEvent<HTMLButtonElement> | null) => {
    if (event) {
      setAnchorEl(event.currentTarget);
    }
  };

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

  return (
    <React.Fragment>
      <Menu
        anchorEl={anchorEl}
        open={open}
        onClose={handleClose}
        aria-labelledby="with-menu-demo-breadcrumbs"
      >
        <MenuItem onClick={handleClose}>Breadcrumbs 2</MenuItem>
        <MenuItem onClick={handleClose}>Breadcrumbs 3</MenuItem>
        <MenuItem onClick={handleClose}>Breadcrumbs 4</MenuItem>
      </Menu>
      <Breadcrumbs aria-label="breadcrumbs">
        <Link color="primary" href="#condensed-with-menu">
          Breadcrumbs 1
        </Link>
      </Breadcrumbs>
    </React.Fragment>
  );
}
```

## Customization



Here is an example of customizing the component. You can learn more about this in the [overrides documentation page](#).

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```

import * as React from 'react';
import { emphasize, styled } from '@mui/material/styles';
import Breadcrumbs from '@mui/material/Breadcrumbs';
import Chip from '@mui/material/Chip';
import HomeIcon from '@mui/icons-material/Home';
import ExpandMoreIcon from '@mui/icons-material/ExpandMore';

const StyledBreadcrumb = styled(Chip)(({ theme }) => {
  return {
    backgroundColor: theme.palette.grey[100],
    height: theme.spacing(3),
    color: (theme.vars || theme).palette.text.primary,
    fontWeight: theme.typography.fontWeightRegular,
    '&:hover, &:focus': {
      backgroundColor: emphasize(theme.palette.grey[100], 0.06),
      ...theme.applyStyles('dark', {
        backgroundColor: emphasize(theme.palette.grey[800], 0.06),
      }),
    },
    '&:active': {
      boxShadow: theme.shadows[1],
      backgroundColor: emphasize(theme.palette.grey[100], 0.12),
      ...theme.applyStyles('dark', {
        backgroundColor: emphasize(theme.palette.grey[800], 0.12),
      }),
    },
    ...theme.applyStyles('dark', {
      backgroundColor: theme.palette.grey[800],
    }),
  };
}) as typeof Chip; // TypeScript only: need a type cast here because https://github.com/Microsoft/TypeScript/issues/27024

function handleClick(event: React.MouseEvent<Element, MouseEvent>) {
  event.preventDefault();
  console.info('You clicked a breadcrumb.');
```

## Integration with react-router



Inbox



Important

Trash

Spam

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```
import * as React from 'react';
import Box from '@mui/material/Box';
import List from '@mui/material/List';
import Link, { LinkProps } from '@mui/material/Link';
import { ListItemProps } from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import Collapse from '@mui/material/Collapse';
import ListItemText from '@mui/material/ListItemText';
import Typography from '@mui/material/Typography';
import ExpandLess from '@mui/icons-material/ExpandLess';
import ExpandMore from '@mui/icons-material/ExpandMore';
import Breadcrumbs from '@mui/material/Breadcrumbs';
import {
  Link as RouterLink,
  Route,
  Routes,
  MemoryRouter,
  useLocation,
} from 'react-router';

interface ListItemLinkProps extends ListItemProps {
  to: string;
  open?: boolean;
}

const breadcrumbNameMap: { [key: string]: string } = {
  '/inbox': 'Inbox',
  '/inbox/important': 'Important',
  '/trash': 'Trash',
  '/spam': 'Spam',
  '/drafts': 'Drafts',
};

function ListItemLink(props: ListItemLinkProps) {
  const { to, open, ...other } = props;
  const primary = breadcrumbNameMap[to];

  let icon = null;
```



# Accessibility



(WAI-ARIA: <https://www.w3.org/WAI/ARIA/apg/patterns/breadcrumb/> ↗)

Be sure to add a `aria-label` description on the `Breadcrumbs` component.

The accessibility of this component relies on:


- The set of links is structured using an ordered list (`<ol>` element).
- To prevent screen reader announcement of the visual separators between links, they are hidden with `aria-hidden`.
- A nav element labeled with `aria-label` identifies the structure as a breadcrumb trail and makes it a navigation landmark so that it is easy to locate.

## API



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

- `<Breadcrumbs />`
- `<Link />`
- `<Typography />`

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