Lists

Lists are continuous, vertical indexes of text or images.

Lists are a continuous group of text or images. They are composed of items containing primary and supplemental actions, which are represented by icons and text.

🅼 **View as Markdown**   💬 **Feedback**   📦 **Bundle size**   ⬡ **Source**   ◉ **Material Design**   ◈ **Figma**   🔷 **Sketch**

Introduction   ⊞

Lists present information in a concise, easy-to-follow format through a continuous, vertical index of text or images.

Material UI Lists are implemented using a collection of related components:

- List: a wrapper for list items. Renders as a `<ul>` by default.
- List Item: a common list item. Renders as an `<li>` by default.
- List Item Button: an action element to be used inside a list item.
- List Item Icon: an icon to be used inside of a list item.
- List Item Avatar: an avatar to be used inside of a list item.
- List Item Text: a container inside a list item, used to display text content.
- List Divider: a separator between list items.
- List Subheader: a label for a nested list.

📥 Inbox

✉ Drafts

Trash

Spam

```ts
import Box from '@mui/material/Box';
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 Divider from '@mui/material/Divider';
import InboxIcon from '@mui/icons-material/Inbox';
import DraftsIcon from '@mui/icons-material/Drafts';

export default function BasicList() {
  return (
    <Box sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}>
      <nav aria-label="main mailbox folders">
        <List>
          <ListItem disablePadding>
            <ListItemButton>
              <ListItemIcon>
                <InboxIcon />
              </ListItemIcon>
              <ListItemText primary="Inbox" />
            </ListItemButton>
          </ListItem>
          <ListItem disablePadding>
            <ListItemButton>
              <ListItemIcon>
                <DraftsIcon />
              </ListItemIcon>
              <ListItemText primary="Drafts" />
            </ListItemButton>
          </ListItem>
        </List>
      </nav>
      <Divider />
      <nav aria-label="secondary mailbox folders">
        <List>
          <ListItem disablePadding>
            <ListItemButton>
```

The last item of the previous demo shows how you can render a link:

```
<ListItemButton component="a" href="#simple-list">
  <ListItemText primary="Spam" />
</ListItemButton>
```

Copy
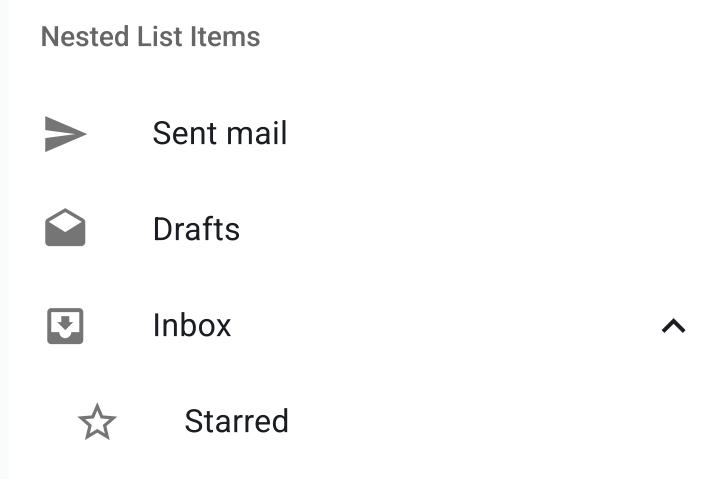
You can find a [demo with React Router following this section](#) of the documentation.

Basics

```
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
```

Copy

Nested List

Nested List Items

➤ Sent mail

✉ Drafts

⬇ Inbox   ⌃

☆ Starred

✦ Edit in Chat   JS   TS   Hide code   ⚡ 📦 ⧉ ⌖ ⟳ ⋮

```tsx
import * as React from 'react';
import ListSubheader from '@mui/material/ListSubheader';
import List from '@mui/material/List';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import Collapse from '@mui/material/Collapse';
import InboxIcon from '@mui/icons-material/MoveToInbox';
import DraftsIcon from '@mui/icons-material/Drafts';
import SendIcon from '@mui/icons-material/Send';
import ExpandLess from '@mui/icons-material/ExpandLess';
import ExpandMore from '@mui/icons-material/ExpandMore';
import StarBorder from '@mui/icons-material/StarBorder';

export default function NestedList() {
  const [open, setOpen] = React.useState(true);

  const handleClick = () => {
    setOpen(!open);
  };

  return (
    <List
      sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}
      component="nav"
```

```
      aria-labelledby="nested-list-subheader"
      subheader={
        <ListSubheader component="div" id="nested-list-subheader">
          Nested List Items
        </ListSubheader>
      }
    >
      <ListItemButton>
        <ListItemIcon>
          <SendIcon />
        </ListItemIcon>
        <ListItemText primary="Sent mail" />
      </ListItemButton>
```

Folder List

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```
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import ListItemText from '@mui/material/ListItemText';
import ListItemAvatar from '@mui/material/ListItemAvatar';
import Avatar from '@mui/material/Avatar';
import ImageIcon from '@mui/icons-material/Image';
import WorkIcon from '@mui/icons-material/Work';
import BeachAccessIcon from '@mui/icons-material/BeachAccess';

export default function FolderList() {
  return (
    <List sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}>
      <ListItem>
        <ListItemAvatar>
          <Avatar>
            <ImageIcon />
          </Avatar>
        </ListItemAvatar>
        <ListItemText primary="Photos" secondary="Jan 9, 2014" />
```

```
    </ListItem>
    <ListItem>
      <ListItemAvatar>
        <Avatar>
          <WorkIcon />
        </Avatar>
      </ListItemAvatar>
      <ListItemText primary="Work" secondary="Jan 7, 2014" />
    </ListItem>
    <ListItem>
      <ListItemAvatar>
        <Avatar>
          <BeachAccessIcon />
        </Avatar>
      </ListItemAvatar>
      <ListItemText primary="Vacation" secondary="July 20, 2014" />
    </ListItem>
  </List>
```

Interactive

Below is an interactive demo that lets you explore the visual results of the different settings:

☐ Enable dense   ☐ Enable secondary text

Text only

Single-line item

Single-line item

Single-line item

Icon with text

📁   Single-line item

📁   Single-line item

📁   Single-line item

Avatar with text

Avatar with text and icon

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```typescript
import * as React from 'react';
import { styled } from '@mui/material/styles';
import Box from '@mui/material/Box';
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import ListItemAvatar from '@mui/material/ListItemAvatar';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import Avatar from '@mui/material/Avatar';
import IconButton from '@mui/material/IconButton';
import FormGroup from '@mui/material/FormGroup';
import FormControlLabel from '@mui/material/FormControlLabel';
import Checkbox from '@mui/material/Checkbox';
import Grid from '@mui/material/Grid';
import Typography from '@mui/material/Typography';
import FolderIcon from '@mui/icons-material/Folder';
import DeleteIcon from '@mui/icons-material/Delete';

function generate(element: React.ReactElement<unknown>) {
  return [0, 1, 2].map((value) =>
    React.cloneElement(element, {
      key: value,
    }),
  );
}
```
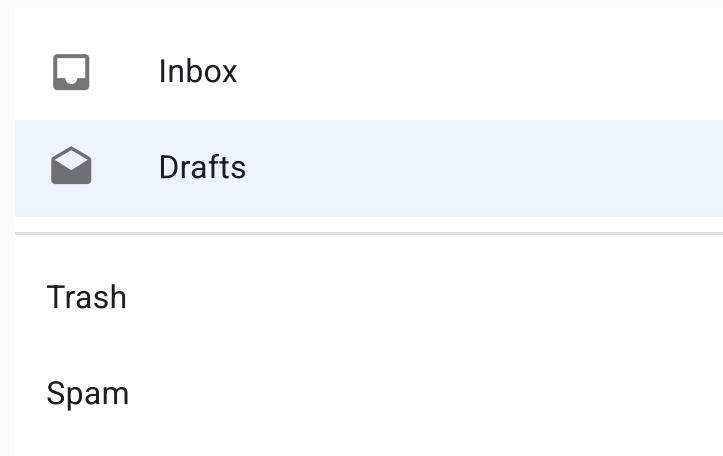
```
const Demo = styled('div')(({ theme }) => ({
  backgroundColor: (theme.vars || theme).palette.background.paper,
}));

export default function InteractiveList() {
  const [dense, setDense] = React.useState(false);
  const [secondary, setSecondary] = React.useState(false);

  return (
    <Box sx={{ flexGrow: 1, maxWidth: 752 }}>
      <FormGroup row>
        <FormControlLabel
```

Selected ListItem

Inbox

Drafts

Trash

Spam

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```
import * as React from 'react';
import Box from '@mui/material/Box';
import List from '@mui/material/List';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import Divider from '@mui/material/Divider';
import InboxIcon from '@mui/icons-material/Inbox';
import DraftsIcon from '@mui/icons-material/Drafts';

export default function SelectedListItem() {
  const [selectedIndex, setSelectedIndex] = React.useState(1);

  const handleListItemClick = (
    event: React.MouseEvent<HTMLDivElement, MouseEvent>,
    index: number,
  ) => {
    setSelectedIndex(index);
  };
```

```
    return (
      <Box sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}>
        <List component="nav" aria-label="main mailbox folders">
          <ListItemButton
            selected={selectedIndex === 0}
            onClick={(event) => handleListItemClick(event, 0)}
          >
            <ListItemIcon>
              <InboxIcon />
            </ListItemIcon>
            <ListItemText primary="Inbox" />
          </ListItemButton>
          <ListItemButton
            selected={selectedIndex === 1}
            onClick={(event) => handleListItemClick(event, 1)}
          >
            <ListItemIcon>
              <DraftsIcon />
```

Align list items

When displaying three lines or more, the avatar is not aligned at the top. You should set the `alignItems="flex-start"` prop to align the avatar at the top, following the Material Design guidelines:

Brunch this weekend?
Ali Connors — I'll be in your neighborhood doing errands this…

Summer BBQ
to Scott, Alex, Jennifer — Wish I could come, but I'm out of town this…

Oui Oui
Sandra Adams — Do you have Paris recommendations? Have you ever…

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```
import * as React from 'react';
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import Divider from '@mui/material/Divider';
import ListItemText from '@mui/material/ListItemText';
import ListItemAvatar from '@mui/material/ListItemAvatar';
import Avatar from '@mui/material/Avatar';
import Typography from '@mui/material/Typography';
```
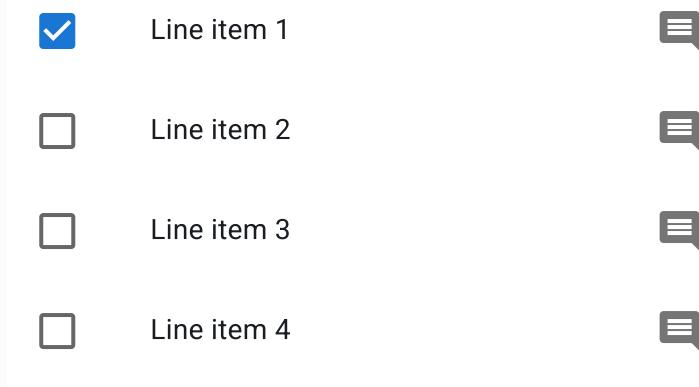
```
export default function AlignItemsList() {
  return (
    <List sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}>
      <ListItem alignItems="flex-start">
        <ListItemAvatar>
          <Avatar alt="Remy Sharp" src="/static/images/avatar/1.jpg" />
        </ListItemAvatar>
        <ListItemText
          primary="Brunch this weekend?"
          secondary={
            <React.Fragment>
              <Typography
                component="span"
                variant="body2"
                sx={{ color: 'text.primary', display: 'inline' }}
              >
                Ali Connors
              </Typography>
              {" — I'll be in your neighborhood doing errands this…"}
            </React.Fragment>
          }
        />
      </ListItem>
      <Divider variant="inset" component="li" />
      <ListItem alignItems="flex-start">
        <ListItemAvatar>
          <Avatar alt="Travis Howard" src="/static/images/avatar/2.jpg" />
        </ListItemAvatar>
        <ListItemText
```

List Controls

Checkbox

A checkbox can either be a primary action or a secondary action.

The checkbox is the primary action and the state indicator for the list item. The comment button is a secondary action and a separate target.

Line item 1

Line item 2

Line item 3

Line item 4

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```tsx
import * as React from 'react';
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 Checkbox from '@mui/material/Checkbox';
import IconButton from '@mui/material/IconButton';
import CommentIcon from '@mui/icons-material/Comment';

export default function CheckboxList() {
  const [checked, setChecked] = React.useState([0]);

  const handleToggle = (value: number) => () => {
    const currentIndex = checked.indexOf(value);
    const newChecked = [...checked];

    if (currentIndex === -1) {
      newChecked.push(value);
    } else {
      newChecked.splice(currentIndex, 1);
    }

    setChecked(newChecked);
  };

  return (
    <List sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}>
      {[0, 1, 2, 3].map((value) => {
        const labelId = `checkbox-list-label-${value}`;

        return (
          <ListItem
            key={value}
            secondaryAction={
              <IconButton edge="end" aria-label="comments">
                <CommentIcon />
              </IconButton>
```
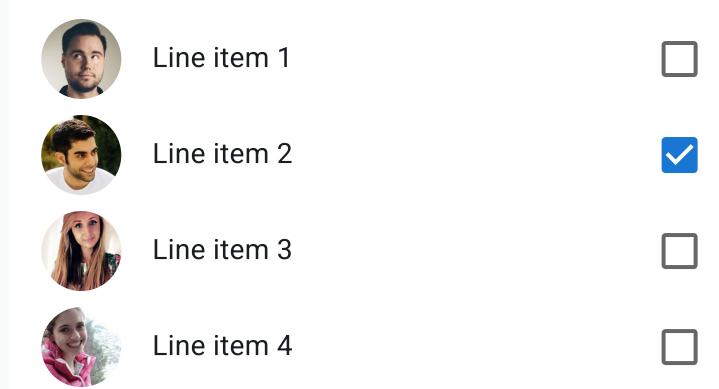
The checkbox is the secondary action for the list item and a separate target.

Line item 1 ☐
Line item 2 ☑
Line item 3 ☐
Line item 4 ☐

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```ts
import * as React from 'react';
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 ListItemAvatar from '@mui/material/ListItemAvatar';
import Checkbox from '@mui/material/Checkbox';
import Avatar from '@mui/material/Avatar';

export default function CheckboxListSecondary() {
  const [checked, setChecked] = React.useState([1]);

  const handleToggle = (value: number) => () => {
    const currentIndex = checked.indexOf(value);
    const newChecked = [...checked];

    if (currentIndex === -1) {
      newChecked.push(value);
    } else {
      newChecked.splice(currentIndex, 1);
    }

    setChecked(newChecked);
  };

  return (
    <List dense sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}>
      {[0, 1, 2, 3].map((value) => {
        const labelId = `checkbox-list-secondary-label-${value}`;
        return (
          <ListItem
            key={value}
            secondaryAction={
              <Checkbox
                edge="end"
                onChange={handleToggle(value)}
                checked={checked.includes(value)}
```
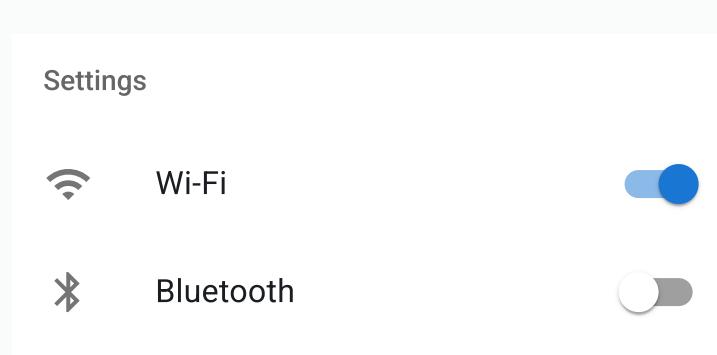
Switch

The switch is the secondary action and a separate target.

Settings

🛜 Wi-Fi ⬤

✳ Bluetooth ◯

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```typescript
import * as React from 'react';
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import ListItemIcon from '@mui/material/ListItemIcon';
import ListItemText from '@mui/material/ListItemText';
import ListSubheader from '@mui/material/ListSubheader';
import Switch from '@mui/material/Switch';
import WifiIcon from '@mui/icons-material/Wifi';
import BluetoothIcon from '@mui/icons-material/Bluetooth';

export default function SwitchListSecondary() {
  const [checked, setChecked] = React.useState(['wifi']);

  const handleToggle = (value: string) => () => {
    const currentIndex = checked.indexOf(value);
    const newChecked = [...checked];

    if (currentIndex === -1) {
      newChecked.push(value);
    } else {
      newChecked.splice(currentIndex, 1);
    }

    setChecked(newChecked);
  };

  return (
    <List
      sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}
      subheader={<ListSubheader>Settings</ListSubheader>}
    >
      <ListItem>
        <ListItemIcon>
          <WifiIcon />
        </ListItemIcon>
```
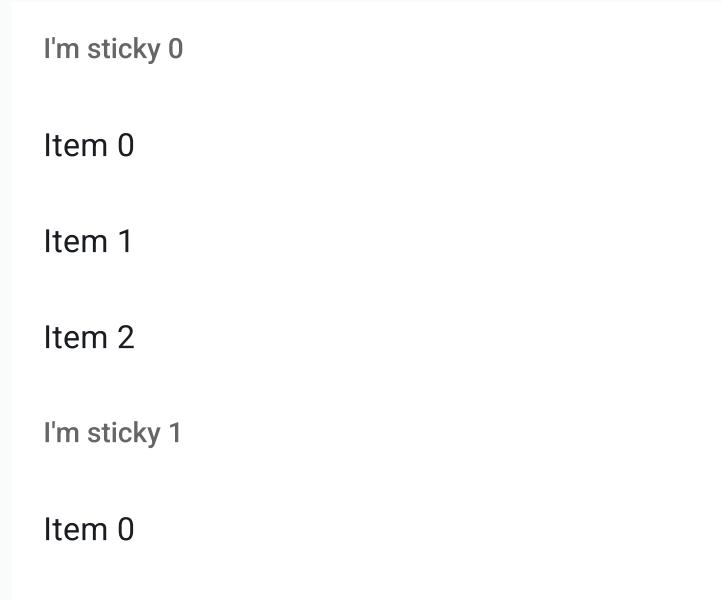
```
<ListItemText id="switch-list-label-wifi" primary="Wi-Fi" />
<Switch
    edge="end"
```

Sticky subheader

Upon scrolling, subheaders remain pinned to the top of the screen until pushed off screen by the next subheader. This feature relies on CSS sticky positioning.
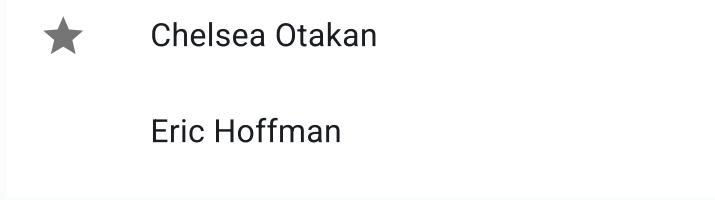
I'm sticky 0

Item 0

Item 1

Item 2

I'm sticky 1

Item 0

Edit in Chat | JS | TS   Hide code

```
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import ListItemText from '@mui/material/ListItemText';
import ListSubheader from '@mui/material/ListSubheader';

export default function PinnedSubheaderList() {
  return (
    <List
      sx={{
        width: '100%',
        maxWidth: 360,
        bgcolor: 'background.paper',
        position: 'relative',
        overflow: 'auto',
        maxHeight: 300,
        '& ul': { padding: 0 },
      }}
      subheader={<li />}
    >
      {[0, 1, 2, 3, 4].map((sectionId) => (
        <li key={`section-${sectionId}`}>
          <ul>
```

```
        <ListSubheader>{`I'm sticky ${sectionId}`}</ListSubheader>
        {[0, 1, 2].map((item) => (
          <ListItem key={`item-${sectionId}-${item}`}>
            <ListItemText primary={`Item ${item}`} />
          </ListItem>
        ))}
      </ul>
    </li>
  ))}
  </List>
);
}
```

Inset List Item

The `inset` prop enables a list item that does not have a leading icon or avatar to align correctly with items that do.

★   Chelsea Otakan

     Eric Hoffman

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```
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 StarIcon from '@mui/icons-material/Star';

export default function InsetList() {
  return (
    <List
      sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}
      aria-label="contacts"
    >
      <ListItem disablePadding>
        <ListItemButton>
          <ListItemIcon>
            <StarIcon />
          </ListItemIcon>
          <ListItemText primary="Chelsea Otakan" />
        </ListItemButton>
      </ListItem>
      <ListItem disablePadding>
```

```
        <ListItemButton>
          <ListItemText inset primary="Eric Hoffman" />
        </ListItemButton>
      </ListItem>
    </List>
  );
}
```

Gutterless list

When rendering a list within a component that defines its own gutters, `ListItem` gutters can be disabled with `disableGutters`.

Line item 1

Line item 2

Line item 3

✦ Edit in Chat   JS TS   Collapse code   ⚡ 📦 🗇 ⊡ ↻ ⋮

```
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import ListItemText from '@mui/material/ListItemText';
import CommentIcon from '@mui/icons-material/Comment';
import IconButton from '@mui/material/IconButton';

export default function GutterlessList() {
  return (
    <List sx={{ width: '100%', maxWidth: 360, bgcolor: 'background.paper' }}>
      {[1, 2, 3].map((value) => (
        <ListItem
          key={value}
          disableGutters
          secondaryAction={
            <IconButton aria-label="comment">
              <CommentIcon />
            </IconButton>
          }
        >
          <ListItemText primary={`Line item ${value}`} />
        </ListItem>
      ))}
    </List>
```

```
  );
}
```

Virtualized List

In the following example, we demonstrate how to use [react-window](#) with the `List` component. It renders 200 rows and can easily handle more. Virtualization helps with performance issues.

Item 1

Item 2

Item 3

Item 4

Item 5

Item 6

Item 7

Item 8

Item 9

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```ts
import Box from '@mui/material/Box';
import ListItem from '@mui/material/ListItem';
import ListItemButton from '@mui/material/ListItemButton';
import ListItemText from '@mui/material/ListItemText';
import { List, RowComponentProps } from 'react-window';

function renderRow(props: RowComponentProps) {
  const { index, style } = props;

  return (
    <ListItem style={style} key={index} component="div" disablePadding>
      <ListItemButton>
        <ListItemText primary={`Item ${index + 1}`} />
      </ListItemButton>
    </ListItem>
  );
}
```
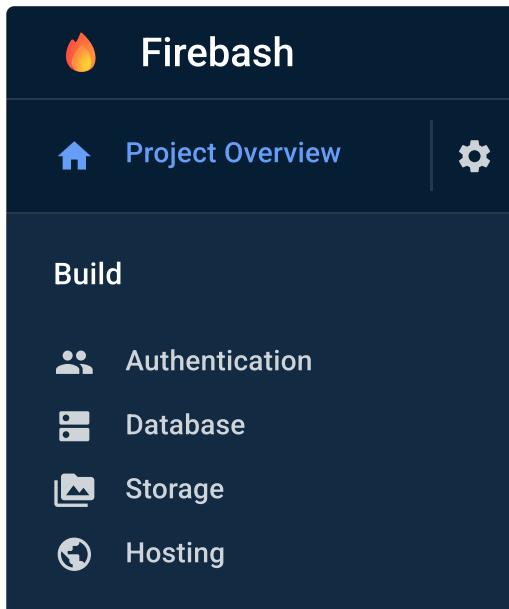
```
export default function VirtualizedList() {
  return (
    <Box
      sx={{ width: '100%', height: 400, maxWidth: 360, bgcolor: 'background.paper' }}
    >
      <List
        rowHeight={46}
        rowCount={200}
        style={{
          height: 400,
          width: 360,
        }}
        rowProps={{}}
        overscanCount={5}
        rowComponent={renderRow}
      />
    </Box>
  );
}
```

The use of **react-window** when possible is encouraged. If this library doesn't cover your use case, you should consider using alternatives like **react-virtuoso**.

Customization

Here are some examples of customizing the component. You can learn more about this in the **overrides documentation page**.

🔥 **Firebash**

🏠 Project Overview ⚙️

Build

👥 Authentication

🗄️ Database

🖼️ Storage

🌐 Hosting

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

```jsx
import { styled, ThemeProvider, createTheme } from '@mui/material/styles';
import Divider from '@mui/material/Divider';
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 Paper from '@mui/material/Paper';
import IconButton from '@mui/material/IconButton';
import Tooltip from '@mui/material/Tooltip';
import ArrowRight from '@mui/icons-material/ArrowRight';
import KeyboardArrowDown from '@mui/icons-material/KeyboardArrowDown';
import Home from '@mui/icons-material/Home';
import Settings from '@mui/icons-material/Settings';
import People from '@mui/icons-material/People';
import PermMedia from '@mui/icons-material/PermMedia';
import Dns from '@mui/icons-material/Dns';
import Public from '@mui/icons-material/Public';

const data = [
  { icon: <People />, label: 'Authentication' },
  { icon: <Dns />, label: 'Database' },
  { icon: <PermMedia />, label: 'Storage' },
  { icon: <Public />, label: 'Hosting' },
];

const FireNav = styled(List)<{ component?: React.ElementType }>({
  '& .MuiListItemButton-root': {
    paddingLeft: 24,
    paddingRight: 24,
  },
  '& .MuiListItemIcon-root': {
    minWidth: 0,
    marginRight: 16,
  },
  '& .MuiSvgIcon-root': {
```

API

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

- `<Collapse />`
- `<Divider />`
- `<List />`
- `<ListItem />`
- `<ListItemAvatar />`
- `<ListItemButton />`
- `<ListItemIcon />`

- <ListItemSecondaryAction />
- <ListItemText />
- <ListSubheader />