

Select

Select components are used for collecting user provided information from a list of options.



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Basic select



Menus are positioned under their emitting elements, unless they are close to the bottom of the viewport.

Age

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```
<FormControl fullWidth>
  <InputLabel id="demo-simple-select-label">Age</InputLabel>
  <Select
    labelId="demo-simple-select-label"
    id="demo-simple-select"
    value={age}
    label="Age"
    onChange={handleChange}
  >
    <MenuItem value={10}>Ten</MenuItem>
    <MenuItem value={20}>Twenty</MenuItem>
    <MenuItem value={30}>Thirty</MenuItem>
  </Select>
</FormControl>
```

Advanced features



The Select component is meant to be interchangeable with a native `<select>` element.

If you are looking for more advanced features, like combobox, multiselect, autocomplete, async or creatable support, head to the [Autocomplete component](#). It's meant to be an improved version of the "react-select" and "downshift" packages.

Props

The Select component is implemented as a custom `<input>` element of the [InputBase](#). It extends the [text field components](#) subcomponents, either the [OutlinedInput](#), [Input](#), or [FilledInput](#), depending on the variant selected. It shares the same styles and many of the same props. Refer to the respective component's API page for details.

⚠ Unlike input components, the `placeholder` prop is not available in Select. To add a placeholder, refer to the [placeholder](#) section below.

Filled and standard variants

Age

Age

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```
import * as React from 'react';
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import Select, { SelectChangeEvent } from '@mui/material/Select';

export default function SelectVariants() {
  const [age, setAge] = React.useState('');

  const handleChange = (event: SelectChangeEvent) => {
    setAge(event.target.value);
  };

  return (
    <div>
      <FormControl variant="standard" sx={{ m: 1, minWidth: 120 }}>
        <InputLabel id="demo-simple-select-standard-label">Age</InputLabel>
        <Select
          labelId="demo-simple-select-standard-label"
          id="demo-simple-select-standard"
          value={age}
          onChange={handleChange}
          label="Age"
        />
      </FormControl>
    </div>
  );
}
```

```

      <MenuItem value="">
        <em>None</em>
      </MenuItem>
      <MenuItem value={10}>Ten</MenuItem>
      <MenuItem value={20}>Twenty</MenuItem>
      <MenuItem value={30}>Thirty</MenuItem>
    </Select>
  </FormControl>
  <FormControl variant="filled" sx={{ m: 1, minWidth: 120 }}>
    <InputLabel id="demo-simple-select-filled-label">Age</InputLabel>
    <Select
      labelId="demo-simple-select-filled-label"
      id="demo-simple-select-filled"
    >

```

Labels and helper text

Age

With label + helper text

None

Without label

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```

import * as React from 'react';
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import FormHelperText from '@mui/material/FormHelperText';
import FormControl from '@mui/material/FormControl';
import Select, { SelectChangeEvent } from '@mui/material/Select';

export default function SelectLabels() {
  const [age, setAge] = React.useState('');

  const handleChange = (event: SelectChangeEvent) => {
    setAge(event.target.value);
  };

  return (
    <div>
      <FormControl sx={{ m: 1, minWidth: 120 }}>
        <InputLabel id="demo-simple-select-helper-label">Age</InputLabel>
        <Select
          labelId="demo-simple-select-helper-label"
          id="demo-simple-select-helper"
          value={age}
          label="Age"
          onChange={handleChange}
        >
          <MenuItem value="">
            <em>None</em>

```

```

    </MenuItem>
    <MenuItem value={10}>Ten</MenuItem>
    <MenuItem value={20}>Twenty</MenuItem>
    <MenuItem value={30}>Thirty</MenuItem>
  </Select>
  <FormHelperText>With label + helper text</FormHelperText>
</FormControl>
<FormControl sx={{ m: 1, minWidth: 120 }}>
  <Select
    value={age}

```

⚠ Note that when using FormControl with the outlined variant of the Select, you need to provide a label in two places: in the InputLabel component and in the `label` prop of the Select component (see the above demo).

Auto width



Age ▼

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```

import * as React from 'react';
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import Select, { SelectChangeEvent } from '@mui/material/Select';

export default function SelectAutoWidth() {
  const [age, setAge] = React.useState('');

  const handleChange = (event: SelectChangeEvent) => {
    setAge(event.target.value);
  };

  return (
    <div>
      <FormControl sx={{ m: 1, minWidth: 80 }}>
        <InputLabel id="demo-simple-select-autowidth-label">Age</InputLabel>
        <Select
          labelId="demo-simple-select-autowidth-label"
          id="demo-simple-select-autowidth"
          value={age}
          onChange={handleChange}
          autoWidth
          label="Age"
        >

```

```

      <MenuItem value="">
        <em>None</em>
      </MenuItem>
      <MenuItem value={20}>Twenty</MenuItem>
      <MenuItem value={21}>Twenty one</MenuItem>
      <MenuItem value={22}>Twenty one and a half</MenuItem>
    </Select>
  </FormControl>
</div>
);
}

```

Small Size



Age

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```

import * as React from 'react';
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import Select, { SelectChangeEvent } from '@mui/material/Select';

export default function SelectSmall() {
  const [age, setAge] = React.useState('');

  const handleChange = (event: SelectChangeEvent) => {
    setAge(event.target.value);
  };

  return (
    <FormControl sx={{ m: 1, minWidth: 120 }} size="small">
      <InputLabel id="demo-select-small-label">Age</InputLabel>
      <Select
        labelId="demo-select-small-label"
        id="demo-select-small"
        value={age}
        label="Age"
        onChange={handleChange}
      >
        <MenuItem value="">
          <em>None</em>
        </MenuItem>
        <MenuItem value={10}>Ten</MenuItem>
        <MenuItem value={20}>Twenty</MenuItem>
        <MenuItem value={30}>Thirty</MenuItem>
      </Select>
    </FormControl>
  );
}

```

```
);  
}
```

Other props



Age

▼

Disabled

Age

▼

Error

Age

▼

Read only

Age *

▼

Required

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```
import * as React from 'react';  
import InputLabel from '@mui/material/InputLabel';  
import MenuItem from '@mui/material/MenuItem';  
import FormHelperText from '@mui/material/FormHelperText';  
import FormControl from '@mui/material/FormControl';  
import Select, { SelectChangeEvent } from '@mui/material/Select';  
  
export default function SelectOtherProps() {  
  const [age, setAge] = React.useState('');  
  
  const handleChange = (event: SelectChangeEvent) => {  
    setAge(event.target.value);  
  };  
  
  return (  
    <div>  
      <FormControl sx={{ m: 1, minWidth: 120 }} disabled>  
        <InputLabel id="demo-simple-select-disabled-label">Age</InputLabel>  
        <Select  
          labelId="demo-simple-select-disabled-label"  
          id="demo-simple-select-disabled"  
          value={age}  
          label="Age"  
          onChange={handleChange}  
        >  
          <MenuItem value="">  
            <em>None</em>  
          </MenuItem>  
          <MenuItem value={10}>Ten</MenuItem>  
          <MenuItem value={20}>Twenty</MenuItem>  
          <MenuItem value={30}>Thirty</MenuItem>  
        </Select>  
        <FormHelperText>Disabled</FormHelperText>  
      </FormControl>  
      <FormControl sx={{ m: 1, minWidth: 120 }} error>  
        <InputLabel id="demo-simple-select-error-label">Age</InputLabel>  
        <Select  
          labelId="demo-simple-select-error-label"
```

Native select



As the user experience can be improved on mobile using the native select of the platform, we allow such pattern.

Age
Thirty

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Collapse code

```
import Box from '@mui/material/Box';
import InputLabel from '@mui/material/InputLabel';
import FormControl from '@mui/material/FormControl';
import NativeSelect from '@mui/material/NativeSelect';

export default function NativeSelectDemo() {
  return (
    <Box sx={{ minWidth: 120 }}>
      <FormControl fullWidth>
        <InputLabel variant="standard" htmlFor="uncontrolled-native">
          Age
        </InputLabel>
        <NativeSelect
          defaultValue={30}
          inputProps={{
            name: 'age',
            id: 'uncontrolled-native',
          }}
        >
          <option value={10}>Ten</option>
          <option value={20}>Twenty</option>
          <option value={30}>Thirty</option>
        </NativeSelect>
      </FormControl>
    </Box>
  );
}
```

TextField



The `TextField` wrapper component is a complete form control including a label, input and help text. You can find an example with the select mode [in this section](#).

Customization



Here are some examples of customizing the component. You can learn more about this in the [overrides documentation page](#).

The first step is to style the `InputBase` component. Once it's styled, you can either use it directly as a text field or provide it to the select `input` prop to have a `select` field. Notice that the "standard" variant is easier to customize, since it does not wrap the contents in a `fieldset` / `legend` markup.

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```
import * as React from 'react';
import { styled } from '@mui/material/styles';
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import Select from '@mui/material/Select';
import NativeSelect from '@mui/material/NativeSelect';
import InputBase from '@mui/material/InputBase';

const BootstrapInput = styled(InputBase)(({ theme }) => ({
  'label + &': {
    marginTop: theme.spacing(3),
  },
  '& .MuiInputBase-input': {
    borderRadius: 4,
    position: 'relative',
    backgroundColor: (theme.vars ?? theme).palette.background.paper,
    border: '1px solid #ced4da',
    fontSize: 16,
    padding: '10px 26px 10px 12px',
    transition: theme.transitions.create(['border-color', 'box-shadow']),
    // Use the system font instead of the default Roboto font.
    fontFamily: [
      '-apple-system',
      'BlinkMacSystemFont',
      '"Segoe UI"',
      'Roboto',
      '"Helvetica Neue"',
      'Arial',
      'sans-serif',
      '"Apple Color Emoji"',
      '"Segoe UI Emoji"',
      '"Segoe UI Symbol"',
    ].join(','),
  },
  '&:focus': {
    borderRadius: 4,
    borderColor: '#80bdff',
```


🎨 If you are looking for inspiration, you can check [MUI Treasury's customization examples](#).

Multiple select

The `Select` component can handle multiple selections. It's enabled with the `multiple` prop.

Like with the single selection, you can pull out the new value by accessing `event.target.value` in the `onChange` callback. It's always an array.

Default

Name

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```
import * as React from 'react';
import { Theme, useTheme } from '@mui/material/styles';
import OutlinedInput from '@mui/material/OutlinedInput';
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import Select, { SelectChangeEvent } from '@mui/material/Select';

const ITEM_HEIGHT = 48;
const ITEM_PADDING_TOP = 8;
const MenuProps = {
  PaperProps: {
    style: {
      maxHeight: ITEM_HEIGHT * 4.5 + ITEM_PADDING_TOP,
      width: 250,
    },
  },
};

const names = [
  'Oliver Hansen',
  'Van Henry',
  'April Tucker',
  'Ralph Hubbard',
  'Omar Alexander',
  'Carlos Abbott',
  'Miriam Wagner',
  'Bradley Wilkerson',
  'Virginia Andrews',
  'Kelly Snyder',
```

```

];

function getStyles(name: string, personName: string[], theme: Theme) {
  return {
    fontWeight: personName.includes(name)
      ? theme.typography.fontWeightMedium
      : theme.typography.fontWeightRegular,
  };
}

```

Checkmarks



Tag



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```

import * as React from 'react';
import OutlinedInput from '@mui/material/OutlinedInput';
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import ListItemText from '@mui/material/ListItemText';
import Select, { SelectChangeEvent } from '@mui/material/Select';
import Checkbox from '@mui/material/Checkbox';

const ITEM_HEIGHT = 48;
const ITEM_PADDING_TOP = 8;
const MenuProps = {
  PaperProps: {
    style: {
      maxHeight: ITEM_HEIGHT * 4.5 + ITEM_PADDING_TOP,
      width: 250,
    },
  },
};

const names = [
  'Oliver Hansen',
  'Van Henry',
  'April Tucker',
  'Ralph Hubbard',
  'Omar Alexander',
  'Carlos Abbott',
  'Miriam Wagner',
  'Bradley Wilkerson',
  'Virginia Andrews',
  'Kelly Snyder',
];

export default function MultipleSelectCheckmarks() {

```

```
const [personName, setPersonName] = React.useState<string[]>([]);

const handleChange = (event: SelectChangeEvent<typeof personName>) => {
  const {
```

Chip



Chip



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JS

TS

Hide code



```
import * as React from 'react';
import { Theme, useTheme } from '@mui/material/styles';
import Box from '@mui/material/Box';
import OutlinedInput from '@mui/material/OutlinedInput';
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import Select, { SelectChangeEvent } from '@mui/material/Select';
import Chip from '@mui/material/Chip';

const ITEM_HEIGHT = 48;
const ITEM_PADDING_TOP = 8;
const MenuProps = {
  PaperProps: {
    style: {
      maxHeight: ITEM_HEIGHT * 4.5 + ITEM_PADDING_TOP,
      width: 250,
    },
  },
};

const names = [
  'Oliver Hansen',
  'Van Henry',
  'April Tucker',
  'Ralph Hubbard',
  'Omar Alexander',
  'Carlos Abbott',
  'Miriam Wagner',
  'Bradley Wilkerson',
  'Virginia Andrews',
  'Kelly Snyder',
];

function getStyles(name: string, personName: readonly string[], theme: Theme) {
  return {
    fontWeight: personName.includes(name)
      ? theme.typography.fontWeightMedium
```

Placeholder



Placeholder

 Edit in Chat

JS

TS

Hide code



```
import * as React from 'react';
import { Theme, useTheme } from '@mui/material/styles';
import OutlinedInput from '@mui/material/OutlinedInput';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import Select, { SelectChangeEvent } from '@mui/material/Select';
```

```
const ITEM_HEIGHT = 48;
const ITEM_PADDING_TOP = 8;
const MenuProps = {
  PaperProps: {
    style: {
      maxHeight: ITEM_HEIGHT * 4.5 + ITEM_PADDING_TOP,
      width: 250,
    },
  },
};
```

```
const names = [
  'Oliver Hansen',
  'Van Henry',
  'April Tucker',
  'Ralph Hubbard',
  'Omar Alexander',
  'Carlos Abbott',
  'Miriam Wagner',
  'Bradley Wilkerson',
  'Virginia Andrews',
  'Kelly Snyder',
];
```

```
function getStyles(name: string, personName: readonly string[], theme: Theme) {
  return {
    fontWeight: personName.includes(name)
      ? theme.typography.fontWeightMedium
      : theme.typography.fontWeightRegular,
  };
}
```

Native

Oliver Hansen
Van Henry
April Tucker
Ralph Hubbard
Omar Alexander

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JS

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```
import * as React from 'react';
import InputLabel from '@mui/material/InputLabel';
import FormControl from '@mui/material/FormControl';
import Select from '@mui/material/Select';

const names = [
  'Oliver Hansen',
  'Van Henry',
  'April Tucker',
  'Ralph Hubbard',
  'Omar Alexander',
  'Carlos Abbott',
  'Miriam Wagner',
  'Bradley Wilkerson',
  'Virginia Andrews',
  'Kelly Snyder',
];

export default function MultipleSelectNative() {
  const [personName, setPersonName] = React.useState<string[]>([]);
  const handleChangeMultiple = (event: React.ChangeEvent<HTMLSelectElement>) => {
    const { options } = event.target;
    const value: string[] = [];
    for (let i = 0, l = options.length; i < l; i += 1) {
      if (options[i].selected) {
        value.push(options[i].value);
      }
    }
    setPersonName(value);
  };

  return (
    <div>
      <FormControl sx={{ m: 1, minWidth: 120, maxWidth: 300 }}>
        <InputLabel shrink htmlFor="select-multiple-native">
          Native
        </InputLabel>
        <Select<string[]>
```

Controlling the open state



You can control the open state of the select with the `open` prop. Alternatively, it is also possible to set the initial (uncontrolled) open state of the component with the `defaultOpen` prop.

- A component is **controlled** when it's managed by its parent using props.
- A component is **uncontrolled** when it's managed by its own local state.

Learn more about controlled and uncontrolled components in the [React documentation](#).

OPEN THE SELECT

Age ▼

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```
import * as React from 'react';
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import Select, { SelectChangeEvent } from '@mui/material/Select';
import Button from '@mui/material/Button';

export default function ControlledOpenSelect() {
  const [age, setAge] = React.useState<string | number>('');
  const [open, setOpen] = React.useState(false);

  const handleChange = (event: SelectChangeEvent<typeof age>) => {
    setAge(event.target.value);
  };

  const handleClose = () => {
    setOpen(false);
  };

  const handleOpen = () => {
    setOpen(true);
  };

  return (
    <div>
      <Button sx={{ display: 'block', mt: 2 }} onClick={handleOpen}>
        Open the select
      </Button>
      <FormControl sx={{ m: 1, minWidth: 120 }}>
        <InputLabel id="demo-controlled-open-select-label">Age</InputLabel>
        <Select
          labelId="demo-controlled-open-select-label"
          open={open}
          onClose={handleClose}
          onChange={handleChange}>
          <MenuItem>1</MenuItem>
          <MenuItem>2</MenuItem>
          <MenuItem>3</MenuItem>
          <MenuItem>4</MenuItem>
          <MenuItem>5</MenuItem>
        </Select>
      </FormControl>
    </div>
  );
}
```

```
id="demo-controlled-open-select"
open={open}
onClose={handleClose}
onOpen={handleOpen}
value={age}
label="Age"
```

With a dialog



While it's discouraged by the Material Design guidelines, you can use a select inside a dialog.

OPEN SELECT DIALOG

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```
import * as React from 'react';
import Box from '@mui/material/Box';
import Button from '@mui/material/Button';
import Dialog from '@mui/material/Dialog';
import DialogActions from '@mui/material/DialogActions';
import DialogContent from '@mui/material/DialogContent';
import DialogTitle from '@mui/material/DialogTitle';
import InputLabel from '@mui/material/InputLabel';
import OutlinedInput from '@mui/material/OutlinedInput';
import MenuItem from '@mui/material/MenuItem';
import FormControl from '@mui/material/FormControl';
import Select, { SelectChangeEvent } from '@mui/material/Select';

export default function DialogSelect() {
  const [open, setOpen] = React.useState(false);
  const [age, setAge] = React.useState<number | string>('');

  const handleChange = (event: SelectChangeEvent<typeof age>) => {
    setAge(Number(event.target.value) || '');
  };

  const handleClickOpen = () => {
    setOpen(true);
  };

  const handleClose = (event: React.SyntheticEvent<unknown>, reason?: string) => {
    if (reason !== 'backdropClick') {
      setOpen(false);
    }
  };

  return (
    <div>
      <Button onClick={handleClickOpen}>Open select dialog</Button>
      <Dialog disableEscapeKeyDown open={open} onClose={handleClose}>
```

```
<DialogTitle>Fill the form</DialogTitle>
<DialogContent>
  <Box component="form" sx={{ display: 'flex', flexWrap: 'wrap' }}>
```

Grouping



Display categories with the `ListSubheader` component or the native `<optgroup>` element.

Grouping

Grouping

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```
import InputLabel from '@mui/material/InputLabel';
import MenuItem from '@mui/material/MenuItem';
import ListSubheader from '@mui/material/ListSubheader';
import FormControl from '@mui/material/FormControl';
import Select from '@mui/material/Select';

export default function GroupedSelect() {
  return (
    <div>
      <FormControl sx={{ m: 1, minWidth: 120 }}>
        <InputLabel htmlFor="grouped-native-select">Grouping</InputLabel>
        <Select native defaultValue="" id="grouped-native-select" label="Grouping">
          <option aria-label="None" value="" />
          <optgroup label="Category 1">
            <option value={1}>Option 1</option>
            <option value={2}>Option 2</option>
          </optgroup>
          <optgroup label="Category 2">
            <option value={3}>Option 3</option>
            <option value={4}>Option 4</option>
          </optgroup>
        </Select>
      </FormControl>
      <FormControl sx={{ m: 1, minWidth: 120 }}>
        <InputLabel id="grouped-select-label" htmlFor="grouped-select">
          Grouping
        </InputLabel>
        <Select
          defaultValue=""
          id="grouped-select"
          label="Grouping"
          SelectDisplayProps={{
            'aria-labelledby': 'grouped-select-label',
          }}
        >
          <MenuItem value="">
```



```
<em>None</em>  
</MenuItem>
```

⚠ If you wish to wrap the `ListSubheader` in a custom component, you'll have to annotate it so Material UI can handle it properly when determining focusable elements.

You have two options for solving this: Option 1: Define a static boolean field called

`muiSkipListHighlight` on your component function, and set it to `true`:

```
function MyListSubheader(props: ListSubheaderProps) {  
  return <ListSubheader {...props} />;  
}  
  
MyListSubheader.muiSkipListHighlight = true;  
export default MyListSubheader;  
  
// elsewhere:  
  
return (  
  <Select>  
    <MyListSubheader>Group 1</MyListSubheader>  
    <MenuItem value={1}>Option 1</MenuItem>  
    <MenuItem value={2}>Option 2</MenuItem>  
    <MyListSubheader>Group 2</MyListSubheader>  
    <MenuItem value={3}>Option 3</MenuItem>  
    <MenuItem value={4}>Option 4</MenuItem>  
    { /* ... */ }  
  </Select>  
)
```

Copy

Option 2: Place a `muiSkipListHighlight` prop on each instance of your component. The prop doesn't have to be forwarded to the `ListSubheader`, nor present in the underlying DOM element. It just has to be placed on a component that's used as a subheader.

```
export default function MyListSubheader(  
  props: ListSubheaderProps & { muiSkipListHighlight: boolean },  
) {  
  const { muiSkipListHighlight, ...other } = props;  
  return <ListSubheader {...other} />;  
}  
  
// elsewhere:  
  
return (  
  <Select>  
    <MyListSubheader muiSkipListHighlight>Group 1</MyListSubheader>  
    <MenuItem value={1}>Option 1</MenuItem>  
    <MenuItem value={2}>Option 2</MenuItem>  
    <MyListSubheader muiSkipListHighlight>Group 2</MyListSubheader>  
    <MenuItem value={3}>Option 3</MenuItem>  
    <MenuItem value={4}>Option 4</MenuItem>  
    { /* ... */ }  
  </Select>  
)
```

Copy

</Select>

We recommend the first option as it doesn't require updating all the usage sites of the component.

Keep in mind this is **only necessary** if you wrap the ListSubheader in a custom component. If you use the ListSubheader directly, **no additional code is required**.

Accessibility



To properly label your `Select` input you need an extra element with an `id` that contains a label. That `id` needs to match the `labelId` of the `Select`, for example:

```
<InputLabel id="label">Age</InputLabel>
<Select labelId="label" id="select" value="20">
  <MenuItem value="10">Ten</MenuItem>
  <MenuItem value="20">Twenty</MenuItem>
</Select>
```

Copy

Alternatively a `TextField` with an `id` and `label` creates the proper markup and ids for you:

```
<TextField id="select" label="Age" value="20" select>
  <MenuItem value="10">Ten</MenuItem>
  <MenuItem value="20">Twenty</MenuItem>
</TextField>
```

Copy

For a [native select](#), you should mention a label by giving the value of the `id` attribute of the select element to the `InputLabel`'s `htmlFor` attribute:

```
<InputLabel htmlFor="select">Age</InputLabel>
<NativeSelect id="select">
  <option value="10">Ten</option>
  <option value="20">Twenty</option>
</NativeSelect>
```

Copy

API



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

- [<NativeSelect />](#)
- [<Select />](#)

