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Switch

Switches toggle the state of a single setting on or off.



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ads via Carbon

Switches are the preferred way to adjust settings on mobile. The option that the switch controls, as well as the state it's in, should be made clear from the corresponding inline label.

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Basic switches

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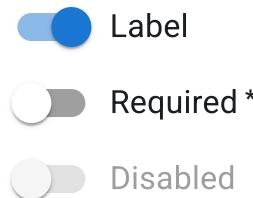
```
import Switch from '@mui/material/Switch';

const label = { inputProps: { 'aria-label': 'Switch demo' } };

export default function BasicSwitches() {
  return (
    <div>
      <Switch {...label} defaultChecked />
      <Switch {...label} />
      <Switch {...label} disabled defaultChecked />
      <Switch {...label} disabled />
    </div>
  );
}
```

Label

You can provide a label to the `Switch` thanks to the `FormControlLabel` component.



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```
import FormGroup from '@mui/material/FormGroup';
import FormControlLabel from '@mui/material/FormControlLabel';
import Switch from '@mui/material/Switch';

export default function SwitchLabels() {
  return (
    <FormGroup>
      <FormControlLabel control={<Switch defaultChecked />} label="Label" />
      <FormControlLabel required control={<Switch />} label="Required" />
      <FormControlLabel disabled control={<Switch />} label="Disabled" />
    </FormGroup>
  );
}
```

Size

Use the `size` prop to change the size of the switch.



import Switch from '@mui/material/Switch';

const label = { inputProps: { 'aria-label': 'Size switch demo' } };

export default function SwitchesSize() {
 return (
 <div>
 <Switch {...label} defaultChecked size="small" />
 <Switch {...label} defaultChecked />
 </div>
);
}

```
});  
}
```

Color

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```
import { alpha, styled } from '@mui/material/styles';
import { pink } from '@mui/material/colors';
import Switch from '@mui/material/Switch';

const PinkSwitch = styled(Switch)(({ theme }) => ({
  '& .MuiSwitch-switchBase.Mui-checked': {
    color: pink[600],
    '&:hover': {
      backgroundColor: alpha(pink[600], theme.palette.action.hoverOpacity),
    },
  },
  '& .MuiSwitch-switchBase.Mui-checked + .MuiSwitch-track': {
    backgroundColor: pink[600],
  },
}));

const label = { inputProps: { 'aria-label': 'Color switch demo' } };

export default function ColorSwitches() {
  return (
    <div>
      <Switch {...label} defaultChecked />
      <Switch {...label} defaultChecked color="secondary" />
      <Switch {...label} defaultChecked color="warning" />
      <Switch {...label} defaultChecked color="default" />
      <PinkSwitch {...label} defaultChecked />
    </div>
  );
}
```

Controlled

You can control the switch with the `checked` and `onChange` props:

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

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

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

  return (
    <Switch
      checked={checked}
      onChange={handleChange}
      slotProps={{ input: { 'aria-label': 'controlled' } }}
    />
  );
}
```

Switches with FormGroup



`FormGroup` is a helpful wrapper used to group selection controls components that provides an easier API. However, you are encouraged to use [Checkboxes](#) instead if multiple related controls are required. (See: [When to use](#)).

Assign responsibility

Gilad Gray

Jason Killian

Antoine Llorca

Be careful

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```
import * as React from 'react';
import FormControlLabel from '@mui/material/FormControlLabel';
import FormControl from '@mui/material/FormControl';
import FormGroup from '@mui/material/FormGroup';
import FormLabel from '@mui/material/FormLabel';
```

```
import FormHelperText from '@mui/material/FormHelperText';
import Switch from '@mui/material/Switch';

export default function SwitchesGroup() {
  const [state, setState] = React.useState({
    gilad: true,
    jason: false,
    antoine: true,
  });

  const handleChange = (event: React.ChangeEvent<HTMLInputElement>) => {
    setState({
      ...state,
      [event.target.name]: event.target.checked,
    });
  };

  return (
    <FormControl component="fieldset" variant="standard">
      <FormLabel component="legend">Assign responsibility</FormLabel>
      <FormGroup>
        <FormControlLabel
          control={
            <Switch checked={state.gilad} onChange={handleChange} name="gilad" />
          }
          label="Gilad Gray"
        />
        <FormControlLabel
          control={
            <Switch checked={state.jason} onChange={handleChange} name="jason" />
          }
          label="Jason Killian"
        />
      </FormGroup>
    </FormControl>
  );
}
```

Customization

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



MUI switch



Android 12



iOS style

Off On

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```
import { styled } from '@mui/material/styles';
import FormGroup from '@mui/material/FormGroup';
import FormControlLabel from '@mui/material/FormControlLabel';
import Switch, { SwitchProps } from '@mui/material/Switch';
import Stack from '@mui/material/Stack';
import Typography from '@mui/material/Typography';

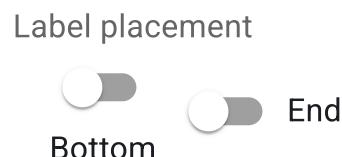
const MaterialUISwitch = styled(Switch)(({ theme }) => ({
  width: 62,
  height: 34,
  padding: 7,
  '& .MuiSwitch-switchBase': {
    margin: 1,
    padding: 0,
    transform: 'translateX(6px)',
    '&.Mui-checked': {
      color: '#fff',
      transform: 'translateX(22px)',
      '& .MuiSwitch-thumb:before': {
        backgroundImage: `url('data:image/svg+xml;utf8,<svg xmlns="http://www.w3.org/2000/svg" height="#fff',` +
          `)}` d="M4.2 2.5l-.7 1.8-1.8.7 1.8.7.7 1.8.6-1.8L6.7 5l-1.9-.7-.6-1.8zm15 8.3a6.7 6.7 0 11-6.6-` +
        `},` +
        `& + .MuiSwitch-track': {
        opacity: 1,
        backgroundColor: '#aab4be',
        ...theme.applyStyles('dark', {
          backgroundColor: '#8796A5',
        }),
        },
      },
    },
  },
  '& .MuiSwitch-thumb': {
    backgroundColor: '#001e3c',
    width: 32,
    height: 32,
    '&::before': {

```



Label placement

You can change the placement of the label:



```
import Switch from '@mui/material/Switch';
import FormGroup from '@mui/material/FormGroup';
import FormControlLabel from '@mui/material/FormControlLabel';
import FormControl from '@mui/material/FormControl';
import FormLabel from '@mui/material/FormLabel';

export default function FormControlLabelPosition() {
  return (
    <FormControl component="fieldset">
      <FormLabel component="legend">Label placement</FormLabel>
      <FormGroup aria-label="position" row>
        <FormControlLabel
          value="bottom"
          control={<Switch color="primary" />}
          label="Bottom"
          labelPlacement="bottom"
        />
        <FormControlLabel
          value="end"
          control={<Switch color="primary" />}
          label="End"
          labelPlacement="end"
        />
      </FormGroup>
    </FormControl>
  );
}
```

When to use

- [Checkboxes vs. Switches](#)

Accessibility

- All form controls should have labels, and this includes radio buttons, checkboxes, and switches. In most cases, this is done by using the `<label>` element ([FormControlLabel](#)).
- When a label can't be used, it's necessary to add an attribute directly to the input component. In this case, you can apply the additional attribute (for example `aria-label`, `aria-labelledby`, `title`) via the `inputProps` prop.

```
<Switch value="checkedA" inputProps={{ 'aria-label': 'Switch A' }} />
```

Copy

API

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

- [`<FormControl />`](#)
- [`<FormControlLabel />`](#)
- [`<FormGroup />`](#)
- [`<FormLabel />`](#)
- [`<Switch />`](#)

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