Timeline

The timeline displays a list of events in chronological order.
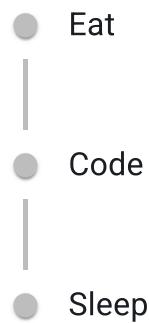
ⓘ This component is not documented in the **Material Design guidelines** ↗ , but it is available in Material UI.

🗨 Feedback   📦 Bundle size   Figma   ◆ Sketch

Basic timeline

A basic timeline showing list of events.

● Eat

● Code

● Sleep

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```
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';

export default function BasicTimeline() {
```

```
  return (
    <Timeline>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Eat</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Code</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
        </TimelineSeparator>
        <TimelineContent>Sleep</TimelineContent>
      </TimelineItem>
    </Timeline>
  );
}
```

Left-positioned timeline

The main content of the timeline can be positioned on the left side relative to the time axis.
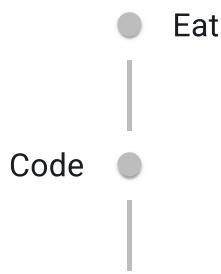
Eat   ●

Code   ●

Sleep   ●

Repeat   ●

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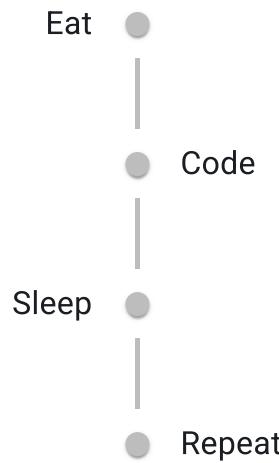
```
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';

export default function LeftPositionedTimeline() {
  return (
    <Timeline position="left">
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Eat</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Code</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Sleep</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
        </TimelineSeparator>
        <TimelineContent>Repeat</TimelineContent>
      </TimelineItem>
```

Alternating timeline

The timeline can display the events on alternating sides.

Eat

Code

Sleep ●

Repeat ●

```ts
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';

export default function AlternateTimeline() {
  return (
    <Timeline position="alternate">
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Eat</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Code</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Sleep</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
        </TimelineSeparator>
        <TimelineContent>Repeat</TimelineContent>
      </TimelineItem>
    </Timeline>
```

Reverse Alternating timeline

The timeline can display the events on alternating sides in reverse order.

Eat ●
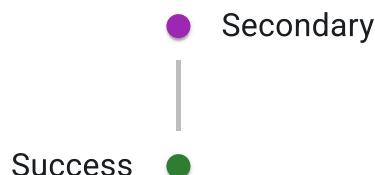
● Code

Sleep ●

● Repeat

```typescript
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';

export default function AlternateReverseTimeline() {
  return (
    <Timeline position="alternate-reverse">
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Eat</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Code</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Sleep</TimelineContent>
```

```
    </TimelineItem>
    <TimelineItem>
      <TimelineSeparator>
        <TimelineDot />
      </TimelineSeparator>
      <TimelineContent>Repeat</TimelineContent>
    </TimelineItem>
```

Color

The `TimelineDot` can appear in different colors from theme palette.

● Secondary

Success ●
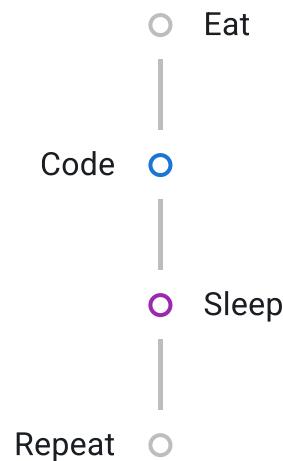
<div>Edit in Chat | JS | TS   Collapse code</div>

```
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';

export default function ColorsTimeline() {
  return (
    <Timeline position="alternate">
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot color="secondary" />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Secondary</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot color="success" />
        </TimelineSeparator>
        <TimelineContent>Success</TimelineContent>
      </TimelineItem>
    </Timeline>
```

```
  );
}
```

Outlined

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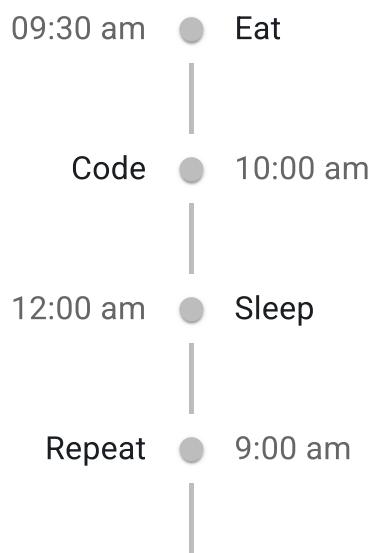
```
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';

export default function OutlinedTimeline() {
  return (
    <Timeline position="alternate">
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot variant="outlined" />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Eat</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot variant="outlined" color="primary" />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Code</TimelineContent>
      </TimelineItem>
      <TimelineItem>
```

```
          <TimelineSeparator>
            <TimelineDot variant="outlined" color="secondary" />
            <TimelineConnector />
          </TimelineSeparator>
          <TimelineContent>Sleep</TimelineContent>
        </TimelineItem>
        <TimelineItem>
          <TimelineSeparator>
            <TimelineDot variant="outlined" />
          </TimelineSeparator>
          <TimelineContent>Repeat</TimelineContent>
        </TimelineItem>
      </Timeline>
```

Opposite content

The timeline can display content on opposite sides.
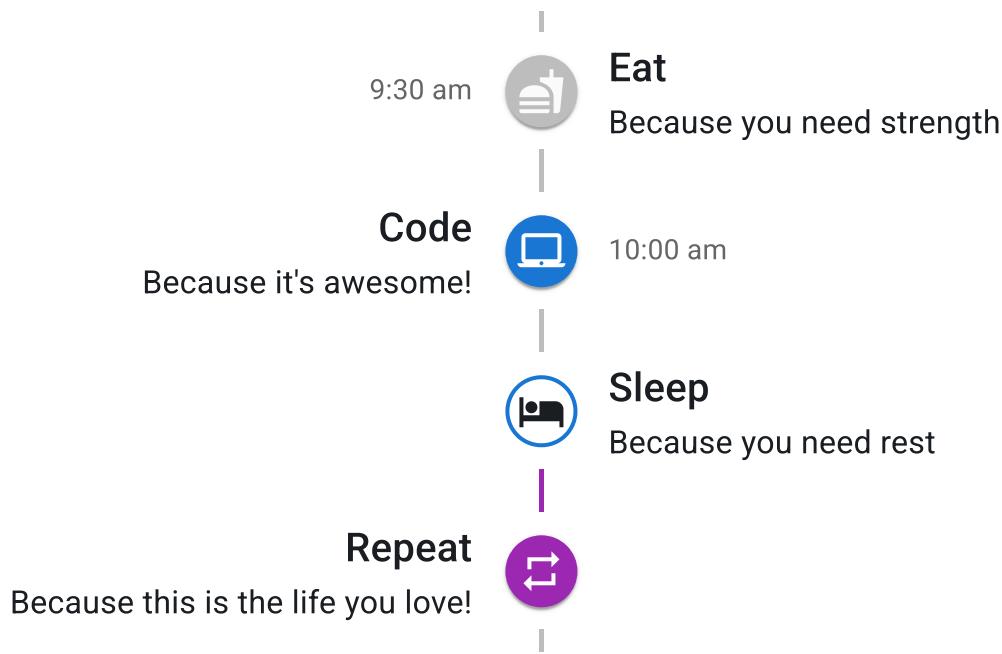
09:30 am ● Eat

Code ● 10:00 am

12:00 am ● Sleep

Repeat ● 9:00 am

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```
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';
import TimelineOppositeContent from '@mui/lab/TimelineOppositeContent';

export default function OppositeContentTimeline() {
  return (
    <Timeline position="alternate">
      <TimelineItem>
        <TimelineOppositeContent color="text.secondary">
```

```
      09:30 am
    </TimelineOppositeContent>
    <TimelineSeparator>
      <TimelineDot />
      <TimelineConnector />
    </TimelineSeparator>
    <TimelineContent>Eat</TimelineContent>
  </TimelineItem>
  <TimelineItem>
    <TimelineOppositeContent color="text.secondary">
      10:00 am
    </TimelineOppositeContent>
    <TimelineSeparator>
      <TimelineDot />
      <TimelineConnector />
    </TimelineSeparator>
    <TimelineContent>Code</TimelineContent>
  </TimelineItem>
  <TimelineItem>
    <TimelineOppositeContent color="text.secondary">
      12:00 am
    </TimelineOppositeContent>
    <TimelineSeparator>
      <TimelineDot />
      <TimelineConnector />
```

Customization

Here is an example of customizing the component. You can learn more about this in the **overrides documentation page**.

9:30 am ● Eat
Because you need strength

Code ● 10:00 am
Because it's awesome!

● Sleep
Because you need rest

Repeat ●
Because this is the life you love!

```tsx
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineOppositeContent from '@mui/lab/TimelineOppositeContent';
import TimelineDot from '@mui/lab/TimelineDot';
import FastfoodIcon from '@mui/icons-material/Fastfood';
import LaptopMacIcon from '@mui/icons-material/LaptopMac';
import HotelIcon from '@mui/icons-material/Hotel';
import RepeatIcon from '@mui/icons-material/Repeat';
import Typography from '@mui/material/Typography';

export default function CustomizedTimeline() {
  return (
    <Timeline position="alternate">
      <TimelineItem>
        <TimelineOppositeContent
          sx={{ m: 'auto 0' }}
          align="right"
          variant="body2"
          color="text.secondary"
        >
          9:30 am
        </TimelineOppositeContent>
        <TimelineSeparator>
          <TimelineConnector />
          <TimelineDot>
            <FastfoodIcon />
          </TimelineDot>
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent sx={{ py: '12px', px: 2 }}>
          <Typography variant="h6" component="span">
            Eat
          </Typography>
          <Typography>Because you need strength</Typography>
        </TimelineContent>
```

Alignment

There are different ways in which a Timeline can be placed within the container.
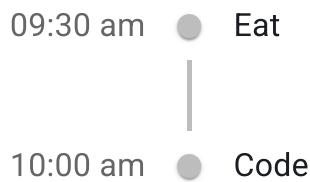
You can do it by overriding the styles.

A Timeline centers itself in the container by default.

The demos below show how to adjust the relative width of the left and right sides of a Timeline:

Left-aligned
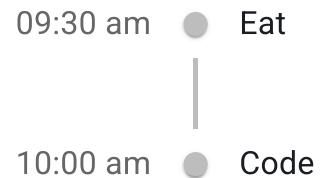
09:30 am	⬤	Eat
	│	
10:00 am	⬤	Code

Hide code

```ts
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';
import TimelineOppositeContent, {
  timelineOppositeContentClasses,
} from '@mui/lab/TimelineOppositeContent';

export default function LeftAlignedTimeline() {
  return (
    <Timeline
      sx={{
        [`& .${timelineOppositeContentClasses.root}`]: {
          flex: 0.2,
        },
      }}
    >
      <TimelineItem>
        <TimelineOppositeContent color="textSecondary">
          09:30 am
        </TimelineOppositeContent>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Eat</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineOppositeContent color="textSecondary">
          10:00 am
        </TimelineOppositeContent>
        <TimelineSeparator>
          <TimelineDot />
        </TimelineSeparator>
        <TimelineContent>Code</TimelineContent>
      </TimelineItem>
```

Right-aligned

09:30 am ● Eat

10:00 am ● Code

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```ts
import Timeline from '@mui/lab/Timeline';
import TimelineItem from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent, { timelineContentClasses } from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';
import TimelineOppositeContent from '@mui/lab/TimelineOppositeContent';

export default function RightAlignedTimeline() {
  return (
    <Timeline
      sx={{
        [`& .${timelineContentClasses.root}`]: {
          flex: 0.2,
        },
      }}
    >
      <TimelineItem>
        <TimelineOppositeContent color="textSecondary">
          09:30 am
        </TimelineOppositeContent>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Eat</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineOppositeContent color="textSecondary">
          10:00 am
        </TimelineOppositeContent>
        <TimelineSeparator>
          <TimelineDot />
        </TimelineSeparator>
        <TimelineContent>Code</TimelineContent>
      </TimelineItem>
    </Timeline>
  );
```

Left-aligned with no opposite content

Eat

Code

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```tsx
import Timeline from '@mui/lab/Timeline';
import TimelineItem, { timelineItemClasses } from '@mui/lab/TimelineItem';
import TimelineSeparator from '@mui/lab/TimelineSeparator';
import TimelineConnector from '@mui/lab/TimelineConnector';
import TimelineContent from '@mui/lab/TimelineContent';
import TimelineDot from '@mui/lab/TimelineDot';

export default function NoOppositeContent() {
  return (
    <Timeline
      sx={{
        [`& .${timelineItemClasses.root}:before`]: {
          flex: 0,
          padding: 0,
        },
      }}
    >
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
          <TimelineConnector />
        </TimelineSeparator>
        <TimelineContent>Eat</TimelineContent>
      </TimelineItem>
      <TimelineItem>
        <TimelineSeparator>
          <TimelineDot />
        </TimelineSeparator>
        <TimelineContent>Code</TimelineContent>
      </TimelineItem>
    </Timeline>
  );
}
```

API

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

- `<Timeline />`
- `<TimelineConnector />`
- `<TimelineContent />`
- `<TimelineDot />`
- `<TimelineItem />`
- `<TimelineOppositeContent />`
- `<TimelineSeparator />`

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