

Card

Cards contain content and actions about a single subject.



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Introduction



Cards are surfaces that display content and actions on a single topic. The Material UI Card component includes several complementary utility components to handle various use cases:

- Card: a surface-level container for grouping related components.
- Card Content: the wrapper for the Card content.
- Card Header: an optional wrapper for the Card header.
- Card Media: an optional container for displaying images, videos, etc.
- Card Actions: an optional wrapper that groups a set of buttons.
- Card Action Area: an optional wrapper that allows users to interact with the specified area of the Card.

Word of the Day

be·nev·o·lent

adjective

well meaning and kindly.
"a benevolent smile"

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```
import Box from '@mui/material/Box';
import Card from '@mui/material/Card';
import CardActions from '@mui/material/CardActions';
import CardContent from '@mui/material/CardContent';
import Button from '@mui/material/Button';
import Typography from '@mui/material/Typography';

const bull = (
  <Box
    component="span"
    sx={{ display: 'inline-block', mx: '2px', transform: 'scale(0.8)' }}
  >
    •
  </Box>
);

export default function BasicCard() {
  return (
    <Card sx={{ minWidth: 275 }}>
      <CardContent>
        <Typography gutterBottom sx={{ color: 'text.secondary', fontSize: 14 }}>
          Word of the Day
        </Typography>
        <Typography variant="h5" component="div">
          be{bull}nev{bull}o{bull}lent
        </Typography>
        <Typography sx={{ color: 'text.secondary', mb: 1.5 }}>adjective</Typography>
        <Typography variant="body2">
          well meaning and kindly.
          <br />
          {'a benevolent smile'}
        </Typography>
      </CardContent>
      <CardActions>
        <Button size="small">Learn More</Button>
      </CardActions>
    </Card>
  );
}
```

Basics



```
import Card from '@mui/material/Card';
import CardContent from '@mui/material/CardContent';
```

Copy

- ✓ Although cards can support multiple actions, UI controls, and an overflow menu, use restraint and remember that cards are meant to be entry points to more complex and detailed information.

Outlined Card



Set `variant="outlined"` to render an outlined card.

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```
import * as React from 'react';
import Box from '@mui/material/Box';
import Card from '@mui/material/Card';
import CardActions from '@mui/material/CardActions';
import CardContent from '@mui/material/CardContent';
import Button from '@mui/material/Button';
import Typography from '@mui/material/Typography';

const bull = (
  <Box
    component="span"
    sx={{ display: 'inline-block', mx: '2px', transform: 'scale(0.8)' }}
  >
    •
  </Box>
);

const card = (
  <React.Fragment>
    <CardContent>
      <Typography gutterBottom sx={{ color: 'text.secondary', fontSize: 14 }}>
        Word of the Day
      </Typography>
      <Typography variant="h5" component="div">
        be{bull}nev{bull}o{bull}lent
      </Typography>
      <Typography sx={{ color: 'text.secondary', mb: 1.5 }}>adjective</Typography>
      <Typography variant="body2">
        well meaning and kindly.
        <br />
        {"a benevolent smile"}
      </Typography>
    </CardContent>
    <CardActions>
      <Button size="small">Learn More</Button>
    </CardActions>
  </React.Fragment>
);
```


Complex Interaction




On desktop, card content can expand. (Click the downward chevron to view the recipe.)

R

Shrimp and Chorizo Paella
September 14, 2016



This impressive paella is a perfect party dish and a fun meal to cook together with your guests. Add 1 cup of frozen peas along with the mussels, if you like.

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```
import * as React from 'react';
import { styled } from '@mui/material/styles';
import Card from '@mui/material/Card';
import CardHeader from '@mui/material/CardHeader';
import CardMedia from '@mui/material/CardMedia';
import CardContent from '@mui/material/CardContent';
import CardActions from '@mui/material/CardActions';
import Collapse from '@mui/material/Collapse';
import Avatar from '@mui/material/Avatar';
import IconButton, { IconButtonProps } from '@mui/material/IconButton';
import Typography from '@mui/material/Typography';
import { red } from '@mui/material/colors';
import FavoriteIcon from '@mui/icons-material/Favorite';
import ShareIcon from '@mui/icons-material/Share';
import ExpandMoreIcon from '@mui/icons-material/ExpandMore';
import MoreVertIcon from '@mui/icons-material/MoreVert';

interface ExpandMoreProps extends IconButtonProps {
  expand: boolean;
}
```

```
const ExpandMore = styled(({ props: ExpandMoreProps }) => {
  const { expand, ...other } = props;
  return <IconButton {...other} />;
})(({ theme }) => ({
  marginLeft: 'auto',
  transition: theme.transitions.create('transform', {
    duration: theme.transitions.duration.shortest,
  }),
  variants: [
    {
      props: ({ expand }) => !expand,
      style: {
        transform: 'rotate(0deg)',
      },
    },
    {
      props: ({ expand }) => !expand
```

Media



Example of a card using an image to reinforce the content.



Lizard

Lizards are a widespread group of squamate reptiles, with over 6,000 species, ranging across all continents except Antarctica

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```
import Card from '@mui/material/Card';
import CardActions from '@mui/material/CardActions';
import CardContent from '@mui/material/CardContent';
import CardMedia from '@mui/material/CardMedia';
import Button from '@mui/material/Button';
import Typography from '@mui/material/Typography';

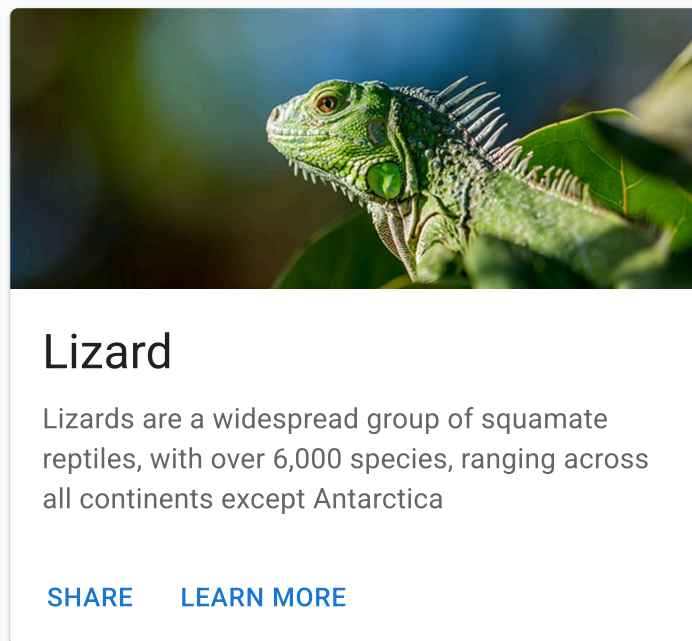
export default function MediaCard() {
  return (
```

```

<Card sx={{ maxWidth: 345 }}>
  <CardMedia
    sx={{ height: 140 }}
    image="/static/images/cards/contemplative-reptile.jpg"
    title="green iguana"
  />
  <CardContent>
    <Typography gutterBottom variant="h5" component="div">
      Lizard
    </Typography>
    <Typography variant="body2" sx={{ color: 'text.secondary' }}>
      Lizards are a widespread group of squamate reptiles, with over 6,000
      species, ranging across all continents except Antarctica
    </Typography>
  </CardContent>
  <CardActions>
    <Button size="small">Share</Button>
    <Button size="small">Learn More</Button>
  </CardActions>
</Card>
);
}

```

By default, we use the combination of a `<div>` element and a *background image* to display the media. It can be problematic in some situations, for example, you might want to display a video or a responsive image. Use the `component` prop for these use cases:



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```

import Card from '@mui/material/Card';
import CardActions from '@mui/material/CardActions';
import CardContent from '@mui/material/CardContent';

```

```

import CardMedia from '@mui/material/CardMedia';
import Button from '@mui/material/Button';
import Typography from '@mui/material/Typography';

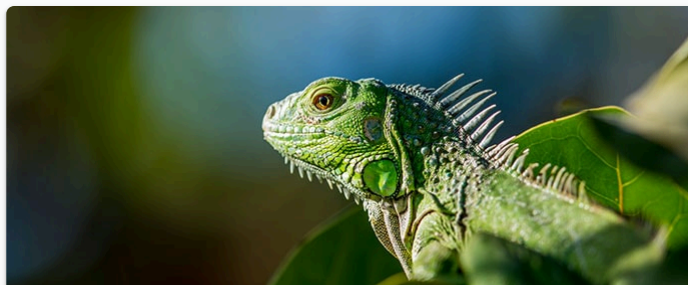
export default function ImgMediaCard() {
  return (
    <Card sx={{ maxWidth: 345 }}>
      <CardMedia
        component="img"
        alt="green iguana"
        height="140"
        image="/static/images/cards/contemplative-reptile.jpg"
      />
      <CardContent>
        <Typography gutterBottom variant="h5" component="div">
          Lizard
        </Typography>
        <Typography variant="body2" sx={{ color: 'text.secondary' }}>
          Lizards are a widespread group of squamate reptiles, with over 6,000
          species, ranging across all continents except Antarctica
        </Typography>
      </CardContent>
      <CardActions>
        <Button size="small">Share</Button>
        <Button size="small">Learn More</Button>
      </CardActions>
    </Card>
  );
}

```

Primary action



Often a card allow users to interact with the entirety of its surface to trigger its main action, be it an expansion, a link to another screen or some other behavior. The action area of the card can be specified by wrapping its contents in a `CardActionArea` component.



Lizard

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```
import Card from '@mui/material/Card';
import CardContent from '@mui/material/CardContent';
import CardMedia from '@mui/material/CardMedia';
import Typography from '@mui/material/Typography';
import CardActionArea from '@mui/material/CardActionArea';

export default function ActionAreaCard() {
  return (
    <Card sx={{ maxWidth: 345 }}>
      <CardActionArea>
        <CardMedia
          component="img"
          height="140"
          image="/static/images/cards/contemplative-reptile.jpg"
          alt="green iguana"
        />
        <CardContent>
          <Typography gutterBottom variant="h5" component="div">
            Lizard
          </Typography>
          <Typography variant="body2" sx={{ color: 'text.secondary' }}>
            Lizards are a widespread group of squamate reptiles, with over 6,000
            species, ranging across all continents except Antarctica
          </Typography>
        </CardContent>
      </CardActionArea>
    </Card>
  );
}
```

A card can also offer supplemental actions which should stand detached from the main action area in order to avoid event overlap.



Lizard

Lizards are a widespread group of squamate reptiles, with over 6,000 species, ranging across all continents except Antarctica

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```
import Card from '@mui/material/Card';
import CardContent from '@mui/material/CardContent';
import CardMedia from '@mui/material/CardMedia';
import Typography from '@mui/material/Typography';
import Button from '@mui/material/Button';
import CardActionArea from '@mui/material/CardActionArea';
import CardActions from '@mui/material/CardActions';

export default function MultiActionAreaCard() {
  return (
    <Card sx={{ maxWidth: 345 }}>
      <CardActionArea>
        <CardMedia
          component="img"
          height="140"
          image="/static/images/cards/contemplative-reptile.jpg"
          alt="green iguana"
        />
        <CardContent>
          <Typography gutterBottom variant="h5" component="div">
            Lizard
          </Typography>
          <Typography variant="body2" sx={{ color: 'text.secondary' }}>
            Lizards are a widespread group of squamate reptiles, with over 6,000
            species, ranging across all continents except Antarctica
          </Typography>
        </CardContent>
      </CardActionArea>
      <CardActions>
        <Button size="small" color="primary">
          Share
        </Button>
      </CardActions>
    </Card>
  );
}
```

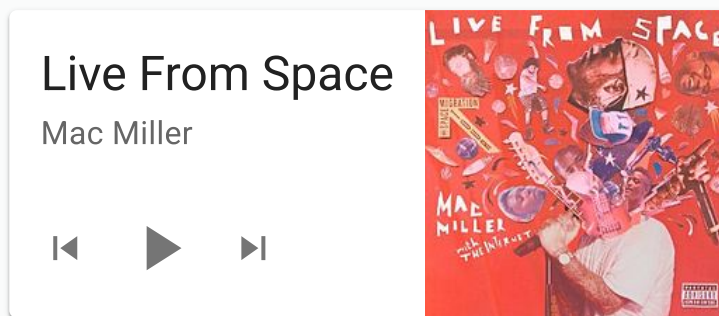
```
);  
}
```

UI Controls



Supplemental actions within the card are explicitly called out using icons, text, and UI controls, typically placed at the bottom of the card.

Here's an example of a media control card.

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```
import { useTheme } from '@mui/material/styles';  
import Box from '@mui/material/Box';  
import Card from '@mui/material/Card';  
import CardContent from '@mui/material/CardContent';  
import CardMedia from '@mui/material/CardMedia';  
import IconButton from '@mui/material/IconButton';  
import Typography from '@mui/material/Typography';  
import SkipPreviousIcon from '@mui/icons-material/SkipPrevious';  
import PlayArrowIcon from '@mui/icons-material/PlayArrow';  
import SkipNextIcon from '@mui/icons-material/SkipNext';  
  
export default function MediaControlCard() {  
  const theme = useTheme();  
  
  return (  
    <Card sx={{ display: 'flex' }}>  
      <Box sx={{ display: 'flex', flexDirection: 'column' }}>  
        <CardContent sx={{ flex: '1 0 auto' }}>  
          <Typography component="div" variant="h5">  
            Live From Space  
          </Typography>  
          <Typography  
            variant="subtitle1"  
            component="div"  
            sx={{ color: 'text.secondary' }}  
          >  
            Mac Miller  
          </Typography>  
        </CardContent>  
        <CardMedia  
          component="img"  
          alt="Live From Space album cover by Mac Miller" data-bbox="535 288 725 425"/>  
        </CardMedia>  
      </Box>  
      <Box sx={{ display: 'flex', flexDirection: 'column', flex: 1 0 auto }}>  
        <IconButton  
          component="div"  
          variant="action"  
          sx={{ color: 'text.secondary', padding: '10px' }}>  
          <SkipPreviousIcon data-bbox="298 385 318 405"/>  
        </IconButton>  
        <IconButton  
          component="div"  
          variant="action"  
          sx={{ color: 'text.secondary', padding: '10px' }}>  
          <PlayArrowIcon data-bbox="358 385 383 405"/>  
        </IconButton>  
        <IconButton  
          component="div"  
          variant="action"  
          sx={{ color: 'text.secondary', padding: '10px' }}>  
          <SkipNextIcon data-bbox="418 385 438 405"/>  
        </IconButton>  
      </Box>  
    </Card>  
  );  
}
```

```

</CardContent>
<Box sx={{ display: 'flex', alignItems: 'center', pl: 1, pb: 1 }}>
  <IconButton aria-label="previous">
    {theme.direction === 'rtl' ? <SkipNextIcon /> : <SkipPreviousIcon />}
  </IconButton>
  <IconButton aria-label="play/pause">
    <PlayArrowIcon sx={{ height: 38, width: 38 }} />
  </IconButton>
  <IconButton aria-label="next">
    {theme.direction === 'rtl' ? <SkipPreviousIcon /> : <SkipNextIcon />}
  </IconButton>
</Box>
</CardContent>
</Card>

```

Active state styles



To customize a Card's styles when it's in an active state, you can attach a `data-active` attribute to the Card Action Area component and apply styles with the `&[data-active]` selector, as shown below:

Plants

Plants are essential for all life.

Animals

Animals are a part of nature.

Humans

Humans depend on plants and animals for survival.

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```

import * as React from 'react';
import Box from '@mui/material/Box';
import Card from '@mui/material/Card';
import CardContent from '@mui/material/CardContent';
import Typography from '@mui/material/Typography';
import CardActionArea from '@mui/material/CardActionArea';

const cards = [
  {
    id: 1,
    title: 'Plants',
    description: 'Plants are essential for all life.',
  },
  {
    id: 2,
    title: 'Animals',
    description: 'Animals are a part of nature.',
  },
  {
    id: 3,
    title: 'Humans',
    description: 'Humans depend on plants and animals for survival.',
  },
];

function SelectActionCard() {

```

```
const [selectedCard, setSelectedCard] = React.useState(0);
return (
  <Box
    sx={{
      width: '100%',
      display: 'grid',
      gridTemplateColumns: 'repeat(auto-fill, minmax(min(200px, 100%), 1fr))',
      gap: 2,
    }}
  >
    {cards.map((card, index) => (
      <Card key={card.id}>
```

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

API



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

- [<Card />](#)
- [<CardActionArea />](#)
- [<CardActions />](#)
- [<CardContent />](#)
- [<CardHeader />](#)
- [<CardMedia />](#)
- [<Collapse />](#)
- [<Paper />](#)

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