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Badge

Badge generates a small badge to the top-right of its child(ren).



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Basic badge

Examples of badges containing text, using primary and secondary colors. The badge is applied to its children.

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```
import Badge from '@mui/material/Badge';
import MailIcon from '@mui/icons-material/Mail';

export default function SimpleBadge() {
  return (
    <Badge badgeContent={4} color="primary">
      <MailIcon color="action" />
    </Badge>
  );
}
```

Color

Use `color` prop to apply theme palette to component.

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```
import Badge from '@mui/material/Badge';
import Stack from '@mui/material/Stack';
import MailIcon from '@mui/icons-material/Mail';

export default function ColorBadge() {
  return (
    <Stack spacing={2} direction="row">
      <Badge badgeContent={4} color="secondary">
        <MailIcon color="action" />
      </Badge>
      <Badge badgeContent={4} color="success">
        <MailIcon color="action" />
      </Badge>
    </Stack>
  );
}
```

Customization

Here is an example of customizing the component. You can learn more about this in the [overrides documentation page](#).

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```
import Badge, { BadgeProps } from '@mui/material/Badge';
import { styled } from '@mui/material/styles';
import IconButton from '@mui/material/IconButton';
import ShoppingCartIcon from '@mui/icons-material/ShoppingCart';

const StyledBadge = styled(Badge)<BadgeProps>(({ theme }) => ({
  '& .MuiBadge-badge': {
    right: -3,
    top: 13,
    border: `2px solid ${theme.vars ?? theme}.palette.background.paper`,
    padding: '0 4px',
  },
}));

export default function CustomizedBadges() {
```

```
return (
  <IconButton aria-label="cart">
    <StyledBadge badgeContent={4} color="secondary">
      <ShoppingCartIcon />
    </StyledBadge>
  </IconButton>
);
}
```

Badge visibility

The visibility of badges can be controlled using the `invisible` prop.



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```
import * as React from 'react';
import Box from '@mui/material/Box';
import Badge from '@mui/material/Badge';
import ButtonGroup from '@mui/material/ButtonGroup';
import Button from '@mui/material/Button';
import AddIcon from '@mui/icons-material/Add';
import RemoveIcon from '@mui/icons-material/Remove';
import MailIcon from '@mui/icons-material/Mail';
import Switch from '@mui/material/Switch';
import FormControlLabel from '@mui/material/FormControlLabel';

export default function BadgeVisibility() {
  const [count, setCount] = React.useState(1);
  const [invisible, setInvisible] = React.useState(false);

  const handleBadgeVisibility = () => {
    setInvisible(!invisible);
  };

  return (
    <Box
      sx={{
        color: 'action.active',
        display: 'flex',
        flexDirection: 'column',
        '& > *': {
          marginBottom: 2,
        },
      }}>
      <IconButton aria-label="cart">
        <StyledBadge badgeContent={4} color="secondary">
          <ShoppingCartIcon />
        </StyledBadge>
      </IconButton>
      <ButtonGroup>
        <Button type="button">-
        <Button type="button">+
      </ButtonGroup>
      <MailIcon />
      <Switch checked={invisible} onChange={handleBadgeVisibility} />
      Show Badge
    
  );
}
```

```
'& .MuiBadge-root': {
  marginRight: 4,
},
}
>
<div>
  <Badge color="secondary" badgeContent={count}>
    <MailIcon />
  </Badge>
</ButtonGroup>
```

The badge hides automatically when `badgeContent` is zero. You can override this with the `showZero` prop.



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```
import Stack from '@mui/material/Stack';
import Badge from '@mui/material/Badge';
import MailIcon from '@mui/icons-material/Mail';

export default function ShowZeroBadge() {
  return (
    <Stack spacing={4} direction="row" sx={{ color: 'action.active' }}>
      <Badge color="secondary" badgeContent={0}>
        <MailIcon />
      </Badge>
      <Badge color="secondary" badgeContent={0} showZero>
        <MailIcon />
      </Badge>
    </Stack>
  );
}
```

Maximum value

You can use the `max` prop to cap the value of the badge content.



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```
import Stack from '@mui/material/Stack';
import Badge from '@mui/material/Badge';
import MailIcon from '@mui/icons-material/Mail';

export default function BadgeMax() {
  return (
    <Stack spacing={4} direction="row" sx={{ color: 'action.active' }}>
      <Badge color="secondary" badgeContent={99}>
        <MailIcon />
      </Badge>
      <Badge color="secondary" badgeContent={100}>
        <MailIcon />
      </Badge>
      <Badge color="secondary" badgeContent={1000} max={999}>
        <MailIcon />
      </Badge>
    </Stack>
  );
}
```

Dot badge

The `dot` prop changes a badge into a small dot. This can be used as a notification that something has changed without giving a count.



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```
import Box from '@mui/material/Box';
import Badge from '@mui/material/Badge';
import MailIcon from '@mui/icons-material/Mail';

export default function DotBadge() {
  return (
    <Box sx={{ color: 'action.active' }}>
      <Badge color="secondary" variant="dot">
        <MailIcon />
      </Badge>
    </Box>
  );
}
```

Badge overlap

You can use the `overlap` prop to place the badge relative to the corner of the wrapped element.



import Box from '@mui/material/Box';
import Stack from '@mui/material/Stack';
import Badge from '@mui/material/Badge';


```
const shapeStyles = { bgcolor: 'primary.main', width: 40, height: 40 };  
const shapeCircleStyles = { borderRadius: '50%' };  
const rectangle = <Box component="span" sx={shapeStyles} />;  
const circle = (  
  <Box component="span" sx={{ ...shapeStyles, ...shapeCircleStyles }} />  
);  
export default function BadgeOverlap() {  
  return (  
    <Stack spacing={3} direction="row">  
      <Badge color="secondary" badgeContent=" ">  
        {rectangle}  
      </Badge>  
      <Badge color="secondary" badgeContent=" " variant="dot">  
        {rectangle}  
      </Badge>  
      <Badge color="secondary" overlap="circular" badgeContent=" ">  
        {circle}  
      </Badge>  
      <Badge color="secondary" overlap="circular" badgeContent=" " variant="dot">  
        {circle}  
      </Badge>  
    </Stack>  
  );  
}
```

Badge alignment

You can use the `anchorOrigin` prop to move the badge to any corner of the wrapped element.

Vertical

Top

Horizontal

Right

Bottom



Left



```
<Badge
  anchorOrigin={{
    vertical: 'top',
    horizontal: 'right',
  }}
>
```

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Accessibility

+

You can't rely on the content of the badge to be announced correctly. You should provide a full description, for instance, with `aria-label`:



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```
import IconButton from '@mui/material/IconButton';
import Badge from '@mui/material/Badge';
import MailIcon from '@mui/icons-material/Mail';

function notificationsLabel(count: number) {
  if (count === 0) {
    return 'no notifications';
  }
  if (count > 99) {
    return 'more than 99 notifications';
  }
  return `${count} notifications`;
}

export default function AccessibleBadges() {
  return (
    <IconButton aria-label={notificationsLabel(100)}>
      <Badge badgeContent={100} color="secondary">
        <MailIcon />
      </Badge>
    </IconButton>
  );
}
```

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

- [`<Badge />`](#)

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