Trap Focus

Trap focus within a DOM node.

TrapFocus is a component that manages focus for its descendants. This is useful when implementing overlays such as modal dialogs, which should not allow the focus to escape while open.

When `open={true}` the trap is enabled, and pressing `Tab` or `Shift+Tab` will rotate focus within the inner focusable elements of the component.

{{"component": "modules/components/ComponentLinkHeader.js", "design": false}}

Example

{{"demo": "BasicTrapFocus.js"}}

Unstyled

- 📦 [2.0 kB gzipped](#)

As the component does not have any styles, it also comes with the Base package.

```
import TrapFocus from '@mui/base/TrapFocus';
```

Disable enforce focus

Clicks within the focus trap behave normally, but clicks outside the focus trap are blocked.

You can disable this behavior with the `disableEnforceFocus` prop.

{{"demo": "DisableEnforceFocus.js"}}

Lazy activation

By default, the component moves the focus to its descendants as soon as it opens: `open={true}`.

You can disable this behavior and make it lazy with the `disableAutoFocus` prop. When auto focus is disabled, as in the demo below, the component only traps the focus once it gets focused.

{{"demo": "LazyTrapFocus.js"}}

Portal

The following demo uses the `Portal` component to render a subset of the trap focus children into a new "subtree" outside of the current DOM hierarchy; so that they no longer form part of the focus loop.

{{"demo": "PortalTrapFocus.js"}}