Spinner

https://playdocs1.orangeriver-ad055946.westus2.azurecontainerapps.io/play-docs/docs/ui-components/Feedback/Spinner

Spinner

ASpinneris a loading indicator that provides visual feedback to users during asynchronous operations. It helps maintain user engagement by clearly communicating that a process is in progress, reducing perceived wait times and improving user experience.

Import

```
import { AavaSpinnerComponent } from "@aava/play-core";
```


```
import { AavaSpinnerComponent } from "@aava/play-core";
```


Basic Usage

```
<aava-spinner  type="circular"  color="primary"  size="lg"  [animation]="true"></aava-spinner>
```


```
<aava-spinner  type="circular"  color="primary"  size="lg"  [animation]="true"></aava-spinner>
```


The spinner component supports multiple visual styles, sizes, and colors to match your application's design system.

Sizes

```
<aava-spinner  type="circular"  color="primary"  size="xs"  [animation]="true"></aava-spinner><aava-spinner
type="circular"  color="primary"  size="sm"  [animation]="true"></aava-spinner><aava-spinner  type="circular"
color="primary"  size="md"  [animation]="true"></aava-spinner><aava-spinner  type="circular"  color="primary"
size="lg"  [animation]="true"></aava-spinner><aava-spinner  type="circular"  color="primary"  size="xl"
[animation]="true"></aava-spinner>
```


```
<aava-spinner  type="circular"  color="primary"  size="xs"  [animation]="true"></aava-spinner><aava-spinner
type="circular"  color="primary"  size="sm"  [animation]="true"></aava-spinner><aava-spinner  type="circular"
color="primary"  size="md"  [animation]="true"></aava-spinner><aava-spinner  type="circular"  color="primary"
size="lg"  [animation]="true"></aava-spinner><aava-spinner  type="circular"  color="primary"  size="xl"
[animation]="true"></aava-spinner>
```


Available spinner sizes:

• xs (Extra Small): Smallest spinner for inline use

• sm (Small): Compact spinner for inline use

• md (Medium): Default size for general use

• lg (Large): Prominent spinner for important operations

• xl (Extra Large): Maximum size for high-impact loading states

Colors

```
<aava-spinner  type="circular"  color="primary"  size="lg"  [animation]="true"></aava-spinner><aava-spinner
type="circular"  color="secondary"  size="lg"  [animation]="true"></aava-spinner><aava-spinner  type="circular"
color="success"  size="lg"  [animation]="true"></aava-spinner><aava-spinner  type="circular"  color="warning"
size="lg"  [animation]="true"></aava-spinner><aava-spinner  type="circular"  color="danger"  size="lg"
[animation]="true"></aava-spinner>
```


```
<aava-spinner  type="circular"  color="primary"  size="lg"  [animation]="true"></aava-spinner><aava-spinner
type="circular"  color="secondary"  size="lg"  [animation]="true"></aava-spinner><aava-spinner  type="circular"
color="success"  size="lg"  [animation]="true"></aava-spinner><aava-spinner  type="circular"  color="warning"
size="lg"  [animation]="true"></aava-spinner><aava-spinner  type="circular"  color="danger"  size="lg"
[animation]="true"></aava-spinner>
```

Semantic color variants:

• primary: Default brand color

• secondary: Secondary brand color

• success: Success state indication

• warning: Warning state indication

• danger: Error or critical state indication

Accessibility

Built-in accessibility features ensuring inclusive user experience for loading states.

Accessibility Features

• ARIA Labels: Usearia-labeloraria-labelledbyto describe the loading state

• Live Regions: Announce loading state changes to screen readers usingaria-live

• Focus Management: Ensure proper focus handling during loading states

• Reduced Motion: Respect user preferences for reduced motion withprefers-reduced-motion

• Timeout Handling: Provide fallback mechanisms for extended loading times

• Screen Reader Support: Semantic HTML structure for assistive technologies

• Keyboard Navigation: Maintain keyboard accessibility during loading states

• Color Contrast: Ensure sufficient contrast for all spinner variants

• Status Communication: Clear communication of loading progress and completion

```
aria-label
```

```
aria-labelledby
```

```
aria-live
```

```
prefers-reduced-motion
```

API Reference

Inputs

```
Property | Type | Default | Description
type | SpinnerType | 'circular' | Visual style of the spinner
size | SpinnerSize | 'md' | Size of the spinner
color | SpinnerColor | 'primary' | Color variant of the spinner
animation | boolean | true | Whether to animate the spinner
progressIndex | number | undefined | Progress value for determinate loading (0-100)
```

```
type
```

```
SpinnerType
```

```
'circular'
```

```
size
```

```
SpinnerSize
```

'md'

color

SpinnerColor

'primary'

animation

boolean

true

progressIndex

number

undefined

CSS Custom Properties

Property | Description | Default
--spinner-size-xs | Extra small spinner dimensions | 16px
--spinner-size-sm | Small spinner dimensions | 20px
--spinner-size-md | Medium spinner dimensions | 24px
--spinner-size-lg | Large spinner dimensions | 48px
--spinner-size-xl | Extra large spinner dimensions | 64px

--spinner-size-xs

16px

--spinner-size-sm

20px

--spinner-size-md

24px

--spinner-size-lg

48px

--spinner-size-xl

64px

Property | Description | Default
--spinner-primary-track | Primary spinner track color | rgba(59, 130, 246, 0.2)
--spinner-primary-fill | Primary spinner fill color | rgb(59, 130, 246)
--spinner-secondary-track | Secondary spinner track color | rgba(107, 114, 128, 0.2)
--spinner-secondary-fill | Secondary spinner fill color | rgb(107, 114, 128)
--spinner-success-track | Success spinner track color | rgba(34, 197, 94, 0.2)
--spinner-success-fill | Success spinner fill color | rgb(34, 197, 94)
--spinner-warning-track | Warning spinner track color | rgba(245, 158, 11, 0.2)

--spinner-warning-fill | Warning spinner fill color | rgb(245, 158, 11)
--spinner-error-track | Error spinner track color | rgba(239, 68, 68, 0.2)
--spinner-error-fill | Error spinner fill color | rgb(239, 68, 68)

--spinner-primary-track

rgba(59, 130, 246, 0.2)

--spinner-primary-fill

rgb(59, 130, 246)

--spinner-secondary-track

rgba(107, 114, 128, 0.2)

--spinner-secondary-fill

rgb(107, 114, 128)

--spinner-success-track

rgba(34, 197, 94, 0.2)

--spinner-success-fill

rgb(34, 197, 94)

--spinner-warning-track

rgba(245, 158, 11, 0.2)

--spinner-warning-fill

rgb(245, 158, 11)

--spinner-error-track

rgba(239, 68, 68, 0.2)

--spinner-error-fill

rgb(239, 68, 68)

Property | Description | Default
--spinner-animation-duration | Spinner rotation duration | 3s
--spinner-animation-timing | Spinner animation timing function | linear

--spinner-animation-duration

3s

--spinner-animation-timing

```
linear
```

Best Practices

Design Guidelines

- Context Appropriate: Use appropriate sizes for the context and available space
- Semantic Colors: Choose colors that align with your design system and semantic meaning
- Prominent Placement: Position spinners prominently for critical operations
- Loading States: Consider using skeleton screens for complex loading states
- Clear Context: Provide clear context about what is loading
- Consistent Timing: Use consistent animation timing across your application
- Visual Hierarchy: Size spinners according to the importance of the loading operation

Performance

- Timing Thresholds: Only show spinners for operations that take more than 200ms
- Animation Optimization: Use CSS animations instead of JavaScript for better performance
- Progress Indicators: Use progress mode for operations with known duration
- State Management: Implement proper loading state management to prevent flickering
- Resource Efficiency: Avoid unnecessary re-renders during loading states
- Bundle Size: Consider lazy loading spinner variants not immediately needed

User Experience

- Clear Messaging: Provide clear messaging about what is loading
- Consistent Patterns: Use consistent spinner styles throughout your application
- Cancel Options: Consider providing cancel options for long-running operations
- Error Handling: Implement proper error handling for failed operations
- Progress Feedback: For long operations, show progress or estimated time
- Completion States: Provide clear indication when loading is complete