

# Popover

<https://playdocs1.orangeriver-ad055946.westus2.azurecontainerapps.io/play-docs/docs/ui-components/Overlay/Popover>

## Popover

The component provides a flexible overlay system for displaying contextual information, help text, and guided tour content. Built with advanced positioning logic and multiple navigation variants, it's perfect for creating interactive user experiences.

```
<ava-popover>
```

## How to use

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

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

## Basic Usage

Simple popover implementation with default settings and basic content display.

```
<aava-button avaPopover [avaPopoverData]="samplePopoverData" [avaPopoverPosition]="'top'"  
[avaPopoverArrow]="'center'" [label]="'Show Popover'" [variant]="'primary'" [outlined]="true"  
pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="learnMorePopoverData"  
[avaPopoverPosition]="'bottom'" [avaPopoverArrow]="'center'" [avaPopoverShowLearnMore]="true" [label]="'Show  
with Learn More'" [variant]="'secondary'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button  
avaPopover [avaPopoverData]="multiStepPopoverData" [avaPopoverPosition]="'right'" [avaPopoverArrow]="'center'"  
[avaPopoverShowButtons]="true" [avaPopoverShowPagination]="true" [label]="'Show Multi-step'"  
[variant]="'success'" [outlined]="true" pressedEffect="ripple"></aava-button>
```

```
<aava-button avaPopover [avaPopoverData]="samplePopoverData" [avaPopoverPosition]="'top'"  
[avaPopoverArrow]="'center'" [label]="'Show Popover'" [variant]="'primary'" [outlined]="true"  
pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="learnMorePopoverData"  
[avaPopoverPosition]="'bottom'" [avaPopoverArrow]="'center'" [avaPopoverShowLearnMore]="true" [label]="'Show  
with Learn More'" [variant]="'secondary'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button  
avaPopover [avaPopoverData]="multiStepPopoverData" [avaPopoverPosition]="'right'" [avaPopoverArrow]="'center'"  
[avaPopoverShowButtons]="true" [avaPopoverShowPagination]="true" [label]="'Show Multi-step'"  
[variant]="'success'" [outlined]="true" pressedEffect="ripple"></aava-button>
```

```
samplePopoverData: PopOverData[] = [ { header: 'Welcome!', description: 'This is a simple popover  
with basic content.', }, ]; learnMorePopoverData: PopOverData[] = [ { header: 'Learn More',  
description: 'This popover includes a learn more link for additional information.', learnMoreUrl:  
'https://example.com', }, ]; multiStepPopoverData: PopOverData[] = [ { header: 'Step 1',  
description: 'This is the first step of the multi-step popover.', }, { header: 'Step 2',  
description: 'This is the second step with additional information.', }, { header: 'Step 3',  
description: 'This is the final step with completion details.', } ];
```

```
samplePopoverData: PopOverData[] = [ { header: 'Welcome!', description: 'This is a simple popover  
with basic content.', }, ]; learnMorePopoverData: PopOverData[] = [ { header: 'Learn More',  
description: 'This popover includes a learn more link for additional information.', learnMoreUrl:  
'https://example.com', }, ]; multiStepPopoverData: PopOverData[] = [ { header: 'Step 1',  
description: 'This is the first step of the multi-step popover.', }, { header: 'Step 2',  
description: 'This is the second step with additional information.', }, { header: 'Step 3',  
description: 'This is the final step with completion details.', } ];
```

## Basic Features

- Flexible Positioning: Automatic positioning with arrow alignment
- Content Management: Support for header, description, and optional learn more links
- Responsive Design: Adapts to different screen sizes and content lengths
- Accessibility: Built-in accessibility features and keyboard navigation

- Animation: Smooth entrance animations with stretch effects

## Positioning Options

Four positioning variants with intelligent arrow placement and automatic boundary detection.

```
<aava-button avaPopover [avaPopoverData]="topPopoverData" [avaPopoverPosition]="'top'" [avaPopoverArrow]="'center'" [label]="'Show Top'" [variant]="'primary'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="bottomPopoverData" [avaPopoverPosition]="'bottom'" [avaPopoverArrow]="'center'" [label]="'Show Bottom'" [variant]="'secondary'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="leftPopoverData" [avaPopoverPosition]="'left'" [avaPopoverArrow]="'center'" [label]="'Show Left'" [variant]="'success'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="rightPopoverData" [avaPopoverPosition]="'right'" [avaPopoverArrow]="'center'" [label]="'Show Right'" [variant]="'warning'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="startArrowPopoverData" [avaPopoverPosition]="'top'" [avaPopoverArrow]="'start'" [label]="'Start Arrow'" [variant]="'info'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="centerArrowPopoverData" [avaPopoverPosition]="'top'" [avaPopoverArrow]="'center'" [label]="'Center Arrow'" [variant]="'primary'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="endArrowPopoverData" [avaPopoverPosition]="'top'" [avaPopoverArrow]="'end'" [label]="'End Arrow'" [variant]="'secondary'" [outlined]="true" pressedEffect="ripple"></aava-button>
```

```
<aava-button avaPopover [avaPopoverData]="topPopoverData" [avaPopoverPosition]="'top'" [avaPopoverArrow]="'center'" [label]="'Show Top'" [variant]="'primary'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="bottomPopoverData" [avaPopoverPosition]="'bottom'" [avaPopoverArrow]="'center'" [label]="'Show Bottom'" [variant]="'secondary'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="leftPopoverData" [avaPopoverPosition]="'left'" [avaPopoverArrow]="'center'" [label]="'Show Left'" [variant]="'success'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="rightPopoverData" [avaPopoverPosition]="'right'" [avaPopoverArrow]="'center'" [label]="'Show Right'" [variant]="'warning'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="startArrowPopoverData" [avaPopoverPosition]="'top'" [avaPopoverArrow]="'start'" [label]="'Start Arrow'" [variant]="'info'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="centerArrowPopoverData" [avaPopoverPosition]="'top'" [avaPopoverArrow]="'center'" [label]="'Center Arrow'" [variant]="'primary'" [outlined]="true" pressedEffect="ripple"></aava-button><aava-button avaPopover [avaPopoverData]="endArrowPopoverData" [avaPopoverPosition]="'top'" [avaPopoverArrow]="'end'" [label]="'End Arrow'" [variant]="'secondary'" [outlined]="true" pressedEffect="ripple"></aava-button>
```

```
topPopoverData: PopOverData[] = [ { header: 'Top Position', description: 'This popover appears above the target element with a downward arrow.', }, ]; bottomPopoverData: PopOverData[] = [ { header: 'Bottom Position', description: 'This popover appears below the target element with an upward arrow.', }, ]; leftPopoverData: PopOverData[] = [ { header: 'Left Position', description: 'This popover appears to the left of the target element with a rightward arrow.', }, ]; rightPopoverData: PopOverData[] = [ { header: 'Right Position', description: 'This popover appears to the right of the target element with a leftward arrow.', }, ]; startArrowPopoverData: PopOverData[] = [ { header: 'Start Arrow', description: 'Arrow positioned at the beginning of the popover.', }, ]; centerArrowPopoverData: PopOverData[] = [ { header: 'Center Arrow', description: 'Arrow centered on the popover (default).', }, ]; endArrowPopoverData: PopOverData[] = [ { header: 'End Arrow', description: 'Arrow positioned at the end of the popover.', }, ];
```

```
topPopoverData: PopOverData[] = [ { header: 'Top Position', description: 'This popover appears above the target element with a downward arrow.', }, ]; bottomPopoverData: PopOverData[] = [ { header: 'Bottom Position', description: 'This popover appears below the target element with an upward arrow.', }, ]; leftPopoverData: PopOverData[] = [ { header: 'Left Position', description: 'This popover appears to the left of the target element with a rightward arrow.', }, ]; rightPopoverData: PopOverData[] = [ { header: 'Right Position', description: 'This popover appears to the right of the target element with a leftward arrow.', }, ]; startArrowPopoverData: PopOverData[] = [ { header: 'Start Arrow', description: 'Arrow positioned at the beginning of the popover.', }, ]; centerArrowPopoverData: PopOverData[] = [ { header: 'Center Arrow', description: 'Arrow centered on the popover (default).', }, ]; endArrowPopoverData: PopOverData[] = [ { header: 'End Arrow', description: 'Arrow positioned at the end of the popover.', }, ];
```

## Available Positions

- Top- Appears above the target element with downward arrow
- Bottom- Appears below the target element with upward arrow
- Left- Appears to the left of the target element with rightward arrow
- Right- Appears to the right of the target element with leftward arrow

## Arrow Alignment

- Start- Arrow positioned at the beginning of the popover
- Center- Arrow centered on the popover (default)
- End- Arrow positioned at the end of the popover

## API Reference

### Inputs

```
Property | Type | Default | Description
config | PopOverConfig | - | Configuration object for popover behavior
data | PopOverData[] | [] | Array of content items to display
```

config

PopOverConfig

data

PopOverData[]

[]

### PopOverConfig Interface

```
Property | Type | Default | Description
arrow | 'start' | 'center' | 'end' | null | null | Arrow alignment position
position | 'top' | 'bottom' | 'left' | 'right' | 'top' | Popover position relative to target
left | number | 0 | Target element left position
top | number | 0 | Target element top position
bottom | number | 0 | Target element bottom position
width | number | 0 | Target element width
height | number | 0 | Target element height
showButtons | boolean? | false | Whether to show navigation buttons
showPagination | boolean? | false | Whether to show page counter
showIcon | boolean? | false | Whether to show icon navigation
showSkip | boolean? | false | Whether to show skip button
showLearnMore | boolean? | false | Whether to show learn more button
```

arrow

'start' | 'center' | 'end' | null

null

position

'top' | 'bottom' | 'left' | 'right'

'top'

left

number

0

top

number

0

bottom

number

0

width

number

0

height

number

0

showButtons

boolean?

false

showPagination

boolean?

false

showIcon

boolean?

false

showSkip

boolean?

false

showLearnMore

boolean?

false

# PopOverData Interface

Property | Type | Default | Description  
header | string | - | Header text for the popover  
description | string | - | Description text for the popover  
learnMoreUrl | string? | - | Optional URL for learn more functionality

header

string

description

string

learnMoreUrl

string?

## Properties

Property | Type | Description  
visible | boolean | Whether the popover is currently visible  
currentIndex | number | Current page index for multi-page content  
currentData | PopOverData | null | Current content data being displayed  
currentPage | string | Current page display string (e.g., "2/5")  
hasPrevious | boolean | Whether previous page is available  
hasNext | boolean | Whether next page is available

visible

boolean

currentIndex

number

currentData

PopOverData | null

currentPage

string

hasPrevious

boolean

hasNext

boolean

## Methods

Method | Parameters | Return Type | Description

```
previous() | event?: any | void | Navigate to previous page
next() | event?: any | void | Navigate to next page
skip() | event?: any | void | Close popover and skip content
learnMore() | event?: any | void | Open learn more URL in new tab
updatePosition() | - | void | Update popover position and arrow placement
setArrowPosition() | - | void | Set CSS custom properties for arrow positioning
```

```
previous()
```

```
event?: any
```

```
void
```

```
next()
```

```
event?: any
```

```
void
```

```
skip()
```

```
event?: any
```

```
void
```

```
learnMore()
```

```
event?: any
```

```
void
```

```
updatePosition()
```

```
void
```

```
setArrowPosition()
```

```
void
```

## CSS Custom Properties

The component uses CSS custom properties for theming and styling:

Property	Default	Description
--popover-background	Dynamic	Background color of the popover
--popover-text	Dynamic	Text color of the popover
--popover-font	Dynamic	Font family for the popover
--popover-padding	Dynamic	Internal padding of the popover
--popover-border-radius	Dynamic	Border radius of the popover
--popover-max-width	Dynamic	Maximum width of the popover
--popover-z-index	Dynamic	Z-index for layering
--popover-shadow	Dynamic	Box shadow for the popover
--popover-border-color	Dynamic	Border color of the popover
--popover-content-gap	Dynamic	Gap between content sections
--popover-header-font-family	Dynamic	Font family for the header
--popover-header-font-size	Dynamic	Font size for the header
--popover-header-font-weight	Dynamic	Font weight for the header
--popover-header-color	Dynamic	Color for the header text
--popover-header-line-height	Dynamic	Line height for the header
--popover-description-font-family	Dynamic	Font family for the description
--popover-description-font-size	Dynamic	Font size for the description
--popover-description-font-weight	Dynamic	Font weight for the description

```
--popover-description-color | Dynamic | Color for the description text
--popover-description-line-height | Dynamic | Line height for the description
--popover-footer-margin-top | Dynamic | Top margin for the footer
--popover-pagination-font-size | Dynamic | Font size for pagination text
--popover-pagination-font-weight | Dynamic | Font weight for pagination text
--popover-pagination-color | Dynamic | Color for pagination text
--popover-pagination-font-family | Dynamic | Font family for pagination text
--popover-pagination-line-height | Dynamic | Line height for pagination text
--popover-button-gap | Dynamic | Gap between navigation buttons
--popover-button-width | Dynamic | Width of navigation buttons
--popover-button-height | Dynamic | Height of navigation buttons
--popover-disabled-opacity | Dynamic | Opacity for disabled button states
--popover-hover-background | Dynamic | Background color for button hover states
--popover-hover-border-radius | Dynamic | Border radius for button hover states
--popover-arrow-border-width | Dynamic | Width of arrow border
--popover-arrow-border-width-inner | Dynamic | Width of inner arrow border
--popover-arrow-border-shadow | Dynamic | Color of arrow border shadow
--popover-arrow-color | Dynamic | Color of arrow fill
```

```
--popover-background
```

```
--popover-text
```

```
--popover-font
```

```
--popover-padding
```

```
--popover-border-radius
```

```
--popover-max-width
```

```
--popover-z-index
```

```
--popover-shadow
```

```
--popover-border-color
```

```
--popover-content-gap
```

```
--popover-header-font-family
```

```
--popover-header-font-size
```

```
--popover-header-font-weight
```

```
--popover-header-color
```

```
--popover-header-line-height
```

```
--popover-description-font-family
```

```
--popover-description-font-size
```

```
--popover-description-font-weight
```

```
--popover-description-color
```

```
--popover-description-line-height
```

```
--popover-footer-margin-top  
--popover-pagination-font-size  
--popover-pagination-font-weight  
--popover-pagination-color  
--popover-pagination-font-family  
--popover-pagination-line-height  
--popover-button-gap  
--popover-button-width  
--popover-button-height  
--popover-disabled-opacity  
--popover-hover-background  
--popover-hover-border-radius  
--popover-arrow-border-width  
--popover-arrow-border-width-inner  
--popover-arrow-border-shadow  
--popover-arrow-color
```

## Best Practices

### Content Guidelines

- Keep it concise: Popovers work best with short, focused content
- Use clear headers: Make the purpose of the popover immediately clear
- Provide actionable content: Include learn more links or navigation when appropriate
- Consider context: Position popovers to avoid covering important interface elements

### Positioning Guidelines

- Choose appropriate positions: Use top/bottom for horizontal content, left/right for vertical content
- Align arrows thoughtfully: Center arrows for balanced content, start/end for directional emphasis
- Avoid boundaries: Ensure popovers don't extend beyond viewport edges
- Consider scrolling: Position popovers to remain visible during page scroll

### Navigation Guidelines

- Match user expectations: Use familiar navigation patterns (prev/next, pagination)
- Provide clear feedback: Show current position and available actions

- Include skip options: Allow users to bypass content when appropriate
- Use consistent styling: Maintain visual consistency across navigation elements

## Technical Notes

### Component Architecture

The popover component uses a modern Angular architecture with:

- PopOverComponent- Main component with positioning and navigation logic
- IconComponentIntegration for icon-based navigation
- ViewChild references for DOM manipulation and positioning
- ChangeDetectionStrategy.OnPush for performance optimization

### Positioning System

The component implements an advanced positioning system:

- Automatic positioning based on target element coordinates
- Arrow alignment with CSS custom properties for precise placement
- Boundary detection to prevent overflow beyond viewport
- Scroll and resize handling for responsive positioning

### Animation System

The component provides smooth entrance animations:

- Stretch effects for natural expansion from target elements
- Position-based animations with appropriate transform origins
- CSS keyframes for consistent and performant animations
- Smooth transitions for opacity and transform changes

### Event Handling

The component manages multiple event types:

- Navigation events for page changes and content progression
- User interaction for skip, learn more, and navigation actions
- Window events for scroll and resize handling
- Lifecycle events for proper cleanup and memory management

### CSS Architecture

The component uses a comprehensive CSS architecture:

- CSS custom properties for theming and customization
- BEM-like naming for maintainable and scalable styles
- Position-based modifiers for different placement variants
- Responsive design with flexible layouts and sizing

### Accessibility Features

The component includes built-in accessibility features:

- Keyboard navigation for all interactive elements
- ARIA attributes for screen reader compatibility

- Focus management for proper tab order and focus indicators
- Semantic markup for clear content structure and meaning