

Breadcrumb

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

Breadcrumbs

The provides a comprehensive navigation solution for displaying hierarchical navigation paths. It supports icons, collapsible behavior, multiple sizes, custom separators, and responsive design to enhance user navigation experience.

```
<aava-breadcrumbs>
```

How to use

Import the component and provide an array of breadcrumb items with their navigation properties.

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

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

Basic Usage

Simple breadcrumb navigation with text labels.

```
<aava-breadcrumbs [breadcrumbs]="simpleBreadcrumbs"></aava-breadcrumbs>
```

```
<aava-breadcrumbs [breadcrumbs]="simpleBreadcrumbs"></aava-breadcrumbs>
```

```
simpleBreadcrumbs: BreadcrumbItem[] = [    { label: 'Home', url: '/home', active: false },    { label: 'Category', url: '/category', active: false },    { label: 'Product', url: '/product', active: true },  ];
```

```
simpleBreadcrumbs: BreadcrumbItem[] = [    { label: 'Home', url: '/home', active: false },    { label: 'Category', url: '/category', active: false },    { label: 'Product', url: '/product', active: true },  ];
```

With Icons

Breadcrumbs with icons for enhanced visual representation.

```
<aava-breadcrumbs [breadcrumbs]="mixedBreadcrumbs"></aava-breadcrumbs>
```

```
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```

```
mixedBreadcrumbs: BreadcrumbItem[] = [    { icon: 'home', label: 'Home', url: '/home', active: false },    { icon: 'folder', label: 'Category', url: '/category', active: false },    { icon: 'file', label: 'Product', url: '/product', active: true },  ];
```

```
mixedBreadcrumbs: BreadcrumbItem[] = [    { icon: 'home', label: 'Home', url: '/home', active: false },    { icon: 'folder', label: 'Category', url: '/category', active: false },    { icon: 'file', label: 'Product', url: '/product', active: true },  ];
```

Size Variants

Four different size options (xs, sm, md, lg) for various design contexts.

```
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="xs"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="sm"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="md"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="lg"></aava-breadcrumbs>
```

```
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="xs"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="sm"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="md"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="lg"></aava-breadcrumbs>

sampleBreadcrumbs: BreadcrumbItem[] = [ { icon: 'home', label: 'Home', url: '/home', active: false }, { icon: 'folder', label: 'Products', url: '/products', active: false }, { icon: 'tag', label: 'Category', url: '/products/category', active: false, }, { icon: 'package', label: 'Item Details', url: '/products/category/item', active: true, }, ];
```

```
sampleBreadcrumbs: BreadcrumbItem[] = [ { icon: 'home', label: 'Home', url: '/home', active: false }, { icon: 'folder', label: 'Products', url: '/products', active: false }, { icon: 'tag', label: 'Category', url: '/products/category', active: false, }, { icon: 'package', label: 'Item Details', url: '/products/category/item', active: true, }, ];
```

Collapsible Behavior

Smart collapsing for long navigation paths with ellipsis expansion.

```
<aava-breadcrumbs [breadcrumbs]="longBreadcrumbs" [collapsible]="true" [maxVisibleItems]="5"></aava-breadcrumbs>
```

```
<aava-breadcrumbs [breadcrumbs]="longBreadcrumbs" [collapsible]="true" [maxVisibleItems]="5"></aava-breadcrumbs>
```

```
longBreadcrumbs: BreadcrumbItem[] = [ { icon: 'home', label: 'Home', url: '/home', active: false }, { icon: 'building', label: 'Organization', url: '/organization', active: false, }, { icon: 'folder', label: 'Projects', url: '/projects', active: false }, { icon: 'folder', label: 'Web Development', url: '/web-dev', active: false, }, { icon: 'folder', label: 'Frontend', url: '/frontend', active: false }, { icon: 'package', label: 'Components', url: '/components', active: false }, { icon: 'package', label: 'Breadcrumbs', url: '/breadcrumbs', active: true, }, ];
```

```
longBreadcrumbs: BreadcrumbItem[] = [ { icon: 'home', label: 'Home', url: '/home', active: false }, { icon: 'building', label: 'Organization', url: '/organization', active: false, }, { icon: 'folder', label: 'Projects', url: '/projects', active: false }, { icon: 'folder', label: 'Web Development', url: '/web-dev', active: false, }, { icon: 'folder', label: 'Frontend', url: '/frontend', active: false }, { icon: 'package', label: 'Components', url: '/components', active: false }, { icon: 'package', label: 'Breadcrumbs', url: '/breadcrumbs', active: true, }, ];
```

Custom Separator

Customizable separator icons and sizes.

```
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="chevron-right" [separatorSize]="14"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="arrow-right" [separatorSize]="14"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="slash" [separatorSize]="14"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="chevron-right" [separatorSize]="12"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="chevron-right" [separatorSize]="18"></aava-breadcrumbs>
```

```
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="chevron-right" [separatorSize]="14"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="arrow-right" [separatorSize]="14"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="slash" [separatorSize]="14"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="chevron-right" [separatorSize]="12"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" separatorIcon="chevron-right" [separatorSize]="18"></aava-breadcrumbs>
```

```
sampleBreadcrumbs: BreadcrumbItem[] = [ { icon: 'home', label: 'Home', url: '/home', active: false }, { icon: 'folder', label: 'Category', url: '/category', active: false }, { icon: 'tag', label: 'Subcategory', url: '/subcategory', active: false }, { icon: 'package', label: 'Product', url: '/product', active: true, }, ];
```

```
sampleBreadcrumbs: BreadcrumbItem[] = [ { icon: 'home', label: 'Home', url: '/home', active: false }, { icon: 'folder', label: 'Category', url: '/category', active: false }, { icon: 'tag', label: 'Subcategory', url: '/subcategory', active: false }, { icon: 'package', label: 'Product', url: '/product', active: true, }, ];
```

Dropdown Breadcrumbs

Interactive breadcrumbs with dropdown menus for enhanced navigation options.

```
<aava-breadcrumbs [breadcrumbs]="dropdownBreadcrumbs" [dropdownIconSize]="14" [flyoutStyle]="{{'min-width': '200px'}}"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="consoleBreadcrumbs" [dropdownIconSize]="16" [flyoutStyle]="{{'min-width': '250px'}}" size="md"></aava-breadcrumbs>
```

```
<aava-breadcrumbs [breadcrumbs]="dropdownBreadcrumbs" [dropdownIconSize]="14" [flyoutStyle]="{{'min-width': '200px'}}"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs]="consoleBreadcrumbs" [dropdownIconSize]="16" [flyoutStyle]="{{'min-width': '250px'}}" size="md"></aava-breadcrumbs>
```

```
interface DropdownItem { label: string; url: string; icon?: string;}interface BreadcrumbItem { label?: string; icon?: string; url: string; active: boolean; dropdownItems?: DropdownItem[]; dropdownWidth?: number;}// Basic dropdown breadcrumb exampledropdownBreadcrumbs: BreadcrumbItem[] = [ { label: 'Dashboard', url: '/dashboard', active: false, icon: 'home', dropdownItems: [ { label: 'Analytics', url: '/dashboard/analytics', icon: 'bar-chart' }, { label: 'Reports', url: '/dashboard/reports', icon: 'file-text' }, { label: 'Settings', url: '/dashboard/settings', icon: 'settings' } ] }, { label: 'Projects', url: '/projects', active: false, icon: 'folder', dropdownItems: [ { label: 'Active Projects', url: '/projects/active', icon: 'play' }, { label: 'Archived', url: '/projects/archived', icon: 'archive' }, { label: 'Templates', url: '/projects/templates', icon: 'copy' } ] }, { label: 'Current Project', url: '/projects/current', active: true, icon: 'folder-open' }];// Console navigation with dropdown exampleconsoleBreadcrumbs: BreadcrumbItem[] = [ { label: 'Console', url: '/console', active: false, dropdownItems: [ { label: 'Create Agent', url: '/console/build/agent/create', icon: 'user' }, { label: 'Create Workflow', url: '/console/build/workflow/create', icon: 'workflow' }, { label: 'Create Prompt', url: '/console/build/prompt/create', icon: 'message-square' }, { label: 'Create Tools', url: '/console/build/tools/create', icon: 'tool' }, { label: 'Create Guardrails', url: '/console/build/guardrails/create', icon: 'shield' }, { label: 'Create Knowledge base', url: '/console/build/knowledge/create', icon: 'book' } ] }, { label: 'Build', url: '/console/build', active: false, dropdownItems: [ { label: 'Agents', url: '/console/build/agents', icon: 'users' }, { label: 'Workflows', url: '/console/build/workflows', icon: 'git-branch' }, { label: 'Models', url: '/console/build/models', icon: 'cpu' } ] }, { label: 'Agent', url: '/console/build/agent', active: true }];
```

```
interface DropdownItem { label: string; url: string; icon?: string;}interface BreadcrumbItem { label?: string; icon?: string; url: string; active: boolean; dropdownItems?: DropdownItem[]; dropdownWidth?: number;}// Basic dropdown breadcrumb exampledropdownBreadcrumbs: BreadcrumbItem[] = [ { label: 'Dashboard', url: '/dashboard', active: false, icon: 'home', dropdownItems: [ { label: 'Analytics', url: '/dashboard/analytics', icon: 'bar-chart' }, { label: 'Reports', url: '/dashboard/reports', icon: 'file-text' }, { label: 'Settings', url: '/dashboard/settings', icon: 'settings' } ] }, { label: 'Projects', url: '/projects', active: false, icon: 'folder', dropdownItems: [ { label: 'Active Projects', url: '/projects/active', icon: 'play' }, { label: 'Archived', url: '/projects/archived', icon: 'archive' }, { label: 'Templates', url: '/projects/templates', icon: 'copy' } ] }, { label: 'Current Project', url: '/projects/current', active: true, icon: 'folder-open' }];// Console navigation with dropdown exampleconsoleBreadcrumbs: BreadcrumbItem[] = [ { label: 'Console', url: '/console', active: false, dropdownItems: [ { label: 'Create Agent', url: '/console/build/agent/create', icon: 'user' }, { label: 'Create Workflow', url: '/console/build/workflow/create', icon: 'workflow' }, { label: 'Create Prompt', url: '/console/build/prompt/create', icon: 'message-square' }, { label: 'Create Tools', url: '/console/build/tools/create', icon: 'tool' }, { label: 'Create Guardrails', url: '/console/build/guardrails/create', icon: 'shield' }, { label: 'Create Knowledge base', url: '/console/build/knowledge/create', icon: 'book' } ] }, { label: 'Build', url: '/console/build', active: false, dropdownItems: [ { label: 'Agents', url: '/console/build/agents', icon: 'users' }, { label: 'Workflows', url: '/console/build/workflows', icon: 'git-branch' }, { label: 'Models', url: '/console/build/models', icon: 'cpu' } ] }, { label: 'Agent', url: '/console/build/agent', active: true }];
```

Features

Hierarchical Navigation

- Display navigation paths with clear hierarchy
- Support for unlimited breadcrumb levels
- Automatic active state management

Icon Support

- Optional icons for each breadcrumb item
- Consistent icon sizing and coloring
- Icon-text alignment and spacing

Collapsible Behavior

- Smart collapsing for long navigation paths
- Ellipsis expansion on click
- Configurable maximum visible items
- Maintains navigation context

Size Variants

- Four size options: extra small (xs), small (sm), medium (md), and large (lg)
- Consistent typography and spacing across all sizes
- Responsive sizing behavior with appropriate icon scaling

Custom Separators

- Configurable separator icons
- Adjustable separator sizes
- Consistent styling with breadcrumb items

Dropdown Navigation

- Interactive dropdown menus for breadcrumb items
- Support for nested navigation options
- Configurable dropdown styling and positioning
- Icon support within dropdown items
- Click-outside to close functionality

Accessibility

- ARIA attributes for screen readers
- Keyboard navigation support
- Focus management
- Semantic HTML structure

Responsive Design

- Mobile-friendly navigation
- Adaptive collapsing behavior
- Touch-optimized interactions

API Reference

Inputs

```

Property | Type | Default | Description
breadcrumbs | BreadcrumbItem[] | [] | Array of breadcrumb items to display
size | 'sm' | 'md' | 'lg' | 'xs' | 'md' | Size variant for the breadcrumbs
separatorIcon | string | 'chevron-right' | Icon name for breadcrumb separators
separatorSize | number | 14 | Size of separator icons in pixels
dropdownIconSize | number | 14 | Size of dropdown icons in pixels
flyoutStyle | Record | undefined | Custom styles for dropdown flyout
customStyles | Record | {} | Custom styles for breadcrumb container
collapsible | boolean | true | Enable collapsible behavior for long paths
maxVisibleItems | number | 5 | Maximum items to show before collapsing

```

breadcrumbs

BreadcrumbItem[]

```
[]
```

```
size
```

```
'sm' | 'md' | 'lg' | 'xs'
```

```
'md'
```

```
separatorIcon
```

```
string
```

```
'chevron-right'
```

```
separatorSize
```

```
number
```

```
14
```

```
dropdownIconSize
```

```
number
```

```
14
```

```
flyoutStyle
```

```
Record<string, string>
```

```
undefined
```

```
customStyles
```

```
Record<string, string>
```

```
{}
```

```
collapsible
```

```
boolean
```

```
true
```

```
maxVisibleItems
```

```
number
```

```
5
```

Interfaces

```
interface DropdownItem { label: string; // Dropdown item label url: string; // Dropdown item URL icon?: string; // Optional icon for dropdown item}interface BreadcrumbItem { label?: string; // Optional text label icon?: string; // Optional icon name url: string; // Required URL for navigation active: boolean; // Required active state dropdownItems?: DropdownItem[]; // Optional dropdown items dropdownWidth?: number; // Optional dropdown width}
```

```
interface DropdownItem { label: string; // Dropdown item label url: string; // Dropdown item URL icon?: string; // Optional icon for dropdown item}interface BreadcrumbItem { label?: string; // Optional text label icon?: string; // Optional icon name url: string; // Required URL for navigation active: boolean; // Required active state dropdownItems?: DropdownItem[]; // Optional dropdown items dropdownWidth?: number; // Optional dropdown width}
```

Methods

Method | Parameters | Description

onBreadcrumbClick() | event: Event, index: number | Handle breadcrumb item click and navigation

onEllipsisClick() | None | Expand collapsed breadcrumbs on ellipsis click

onBreadcrumbKeydown() | event: KeyboardEvent, index: number | Handle keyboard navigation

getIconColor() | isLast: boolean | Get appropriate icon color based on state

getOriginalIndex() | displayedIndex: number | Map displayed index to original breadcrumb index

onBreadcrumbClick()

event: Event, index: number

onEllipsisClick()

onBreadcrumbKeydown()

event: KeyboardEvent, index: number

getIconColor()

isLast: boolean

getOriginalIndex()

displayedIndex: number

Computed Properties

Property | Type | Description

displayedBreadcrumbs | BreadcrumbItem[] | Current breadcrumbs to display (considering collapse)

shouldCollapse | boolean | Whether breadcrumbs should be collapsed

shouldShowEllipsis | boolean | Whether to show ellipsis for collapsed items

displayedBreadcrumbs

BreadcrumbItem[]

shouldCollapse

boolean

shouldShowEllipsis

boolean

CSS Custom Properties

Container Properties

```
Property | Description
--breadcrumbs-background | Background color of breadcrumb container
--breadcrumbs-font | Font family and properties for breadcrumb container
```

```
--breadcrumbs-background
```

```
--breadcrumbs-font
```

Item Properties

```
Property | Description
--breadcrumbs-item-text | Text color for breadcrumb items
--breadcrumbs-item-border-radius | Border radius for breadcrumb items
--breadcrumbs-item-transition | Transition properties for breadcrumb items
--breadcrumbs-item-hover-text | Text color on hover
--breadcrumbs-item-active-background | Background color for active items
--breadcrumbs-item-disabled-text | Text color for disabled items
--breadcrumbs-item-disabled-cursor | Cursor for disabled items
```

```
--breadcrumbs-item-text
```

```
--breadcrumbs-item-border-radius
```

```
--breadcrumbs-item-transition
```

```
--breadcrumbs-item-hover-text
```

```
--breadcrumbs-item-active-background
```

```
--breadcrumbs-item-disabled-text
```

```
--breadcrumbs-item-disabled-cursor
```

Current Item Properties

```
Property | Description
--breadcrumbs-item-current-text | Text color for current/active item
--breadcrumbs-item-current-font-weight | Font weight for current item
```

```
--breadcrumbs-item-current-text
```

```
--breadcrumbs-item-current-font-weight
```

Size Variants

```
Property | Description
--breadcrumbs-size-xs-font | Font properties for extra small size
--breadcrumbs-size-sm-font | Font properties for small size
--breadcrumbs-size-md-font | Font properties for medium size
--breadcrumbs-size-lg-font | Font properties for large size
```

```
--breadcrumbs-size-xs-font
```

```
--breadcrumbs-size-sm-font
```

```
--breadcrumbs-size-md-font
```

```
--breadcrumbs-size-lg-font
```

CSS Classes

Container Classes

- .breadcrumb- Main breadcrumb container
- .breadcrumb.xs- Extra small size variant
- .breadcrumb.sm- Small size variant
- .breadcrumb.md- Medium size variant (default)
- .breadcrumb.lg- Large size variant

```
.breadcrumb
```

```
.breadcrumb.xs
```

```
.breadcrumb.sm
```

```
.breadcrumb.md
```

```
.breadcrumb.lg
```

Item Classes

- .breadcrumb-item- Individual breadcrumb item container
- .breadcrumb-separator- Separator icon styling
- .breadcrumb-ellipsis- Ellipsis container for collapsed items
- .ellipsis- Ellipsis text styling
- .dropdown-container- Container for dropdown breadcrumb items
- .dropdown-button- Button element for dropdown triggers
- .dropdown-menu- Dropdown menu container
- .dropdown-item- Individual dropdown menu items

```
.breadcrumb-item
```

```
.breadcrumb-separator
```

```
.breadcrumb-ellipsis
```

```
.ellipsis
```

```
.dropdown-container
```

```
.dropdown-button
```

```
.dropdown-menu
```

```
.dropdown-item
```

State Classes

- .active- Active breadcrumb item
- .inactive- Inactive breadcrumb item
- .disabled- Disabled breadcrumb item

```
.active
```

```
.inactive
```

```
.disabled
```

Best Practices

Navigation Structure

- Keep breadcrumb paths logical and intuitive
- Use descriptive labels that match page titles
- Ensure URLs are valid and accessible

Icon Usage

- Use consistent icon naming conventions
- Choose icons that clearly represent navigation levels
- Maintain icon-text alignment and spacing

Dropdown Navigation

- Use dropdowns for breadcrumb items that have multiple sub-navigation options
- Provide meaningful labels and icons for dropdown items
- Configure appropriate dropdown width using dropdownWidth property
- Use flyoutStyle to customize dropdown appearance and positioning

```
dropdownWidth
```

```
flyoutStyle
```

Collapsible Behavior

- Set appropriate maxVisibleItems based on design context
- Test collapsing behavior with various path lengths
- Ensure ellipsis expansion provides meaningful navigation

```
maxVisibleItems
```

Accessibility

- Provide meaningful labels for screen readers
- Test keyboard navigation thoroughly
- Ensure sufficient color contrast for all states

Responsive Design

- Test breadcrumbs on various screen sizes
- Consider mobile navigation patterns
- Optimize touch targets for mobile devices

Performance

- Avoid excessive breadcrumb levels
- Use efficient navigation logic
- Optimize icon rendering and caching

Use Cases

E-commerce Sites

- Product category navigation
- Search result breadcrumbs
- Shopping cart navigation

Content Management Systems

- Document hierarchy navigation
- Folder structure display
- Content editing paths

Web Applications

- User dashboard navigation
- Settings and configuration paths
- Multi-step form navigation

Documentation Sites

- Documentation hierarchy
- Search result navigation
- Related content linking

Admin Panels

- User management navigation
- System configuration paths
- Report and analytics navigation

Console Applications

- Build tool navigation with dropdown options
- Agent and workflow creation paths
- Quick access to related creation tools

Accessibility

ARIA Support

- Properaria-currentattributes for current page
- Semantic navigation structure

- Screen reader friendly labels

aria-current

Keyboard Navigation

- Tab navigation through breadcrumb items
- Arrow key navigation between items
- Enter/Space activation for navigation

Focus Management

- Clear focus indicators
- Logical tab order
- Focus restoration after navigation

Screen Reader Support

- Descriptive labels for navigation items
- Context information for collapsed items
- Clear indication of current location

Responsive Behavior

Mobile Optimization

- Touch-friendly tap targets
- Optimized spacing for mobile screens
- Collapsible behavior for limited space

Tablet Adaptation

- Balanced layout for medium screens
- Appropriate icon and text sizing
- Maintained navigation context

Desktop Enhancement

- Full navigation path display
- Hover effects and interactions
- Enhanced visual hierarchy

Browser Support

- Modern Browsers: Full support for all features
- CSS Grid/Flexbox: Required for layout
- ES6+ Features: Required for component functionality
- Angular Router: Required for navigation functionality