

# Table

<https://playdocs1.orangeriver-ad055946.westus2.azurecontainerapps.io/play-docs/docs/ui-components/Data-Display/Table>

## Table

The `DataGridComponent` provides a comprehensive data table solution with advanced features including sorting, filtering, custom cell templates, and responsive design. It uses a flexible column definition system with content projection for maximum customization.

```
DataGridComponent
```

## How to use

Import the component and its directives, then define your table structure with custom templates.

```
import { AavaDataGridComponent, AavaColumnDefDirective, AavaHeaderCellDefDirective, AavaCellDefDirective, AavaTagComponent, } from "@aava/play-core";
```

```
import { AavaDataGridComponent, AavaColumnDefDirective, AavaHeaderCellDefDirective, AavaCellDefDirective, AavaTagComponent, } from "@aava/play-core";
```

## Basic Usage

Simple table with basic data display and column definitions.

```
<div class="demo-page"> <!-- Demo Content --> <div class="demo-content"> <div class="container"> <!--
Employee Table Section --> <div class="demo-section"> <div class="table-container"> <aava-
data-grid [dataSource]="basicData" [displayedColumns]="displayedColumns"
class="styled-data-grid" > <ng-container aavaColumnDef="name"> <ng-container
*aavaHeaderCellDef> <div class="header-cell"> <span class="header-text">Employee
Name</span> </div> </ng-container> <ng-container *aavaCellDef="let row">
<div class="data-cell name-cell"> <span class="employee-name">{{ row.name }}</span>
</div> </ng-container> </ng-container> <ng-container aavaColumnDef="email">
<ng-container *aavaHeaderCellDef> <div class="header-cell"> <span class="header-
text">Email Address</span> </div> </ng-container> <span class="header-
*aavaCellDef="let row"> <div class="data-cell email-cell"> <span class="email-
text">{{ row.email }}</span> </div> </ng-container> </ng-container>
<ng-container aavaColumnDef="department"> <ng-container *aavaHeaderCellDef> <div
class="header-cell"> <span class="header-text">Department</span> </div>
</ng-container> <ng-container *aavaCellDef="let row"> <div class="data-cell department-
cell"> <span class="department-badge">{{ row.department }}</span> </div>
</ng-container> </ng-container> <ng-container aavaColumnDef="status"> <ng-
container *aavaHeaderCellDef> <div class="header-cell"> <span class="header-
text">Status</span> </div> </ng-container> <ng-container *aavaCellDef="let
row"> <div class="data-cell status-cell"> <aava-tag
[label]="row.status" [color]="getStatusColor(row.status)" size="sm"
></aava-tag> </div> </ng-container> </ng-container> </aava-data-
grid> </div> </div> </div> </div></div>
```

```
<div class="demo-page"> <!-- Demo Content --> <div class="demo-content"> <div class="container"> <!--
Employee Table Section --> <div class="demo-section"> <div class="table-container"> <aava-
data-grid [dataSource]="basicData" [displayedColumns]="displayedColumns"
class="styled-data-grid" > <ng-container aavaColumnDef="name"> <ng-container
*aavaHeaderCellDef> <div class="header-cell"> <span class="header-text">Employee
Name</span> </div> </ng-container> <ng-container *aavaCellDef="let row">
<div class="data-cell name-cell"> <span class="employee-name">{{ row.name }}</span>
</div> </ng-container> </ng-container> <ng-container aavaColumnDef="email">
<ng-container *aavaHeaderCellDef> <div class="header-cell"> <span class="header-
text">Email Address</span> </div> </ng-container> <span class="header-
*aavaCellDef="let row"> <div class="data-cell email-cell"> <span class="email-
text">{{ row.email }}</span> </div> </ng-container> </ng-container>
<ng-container aavaColumnDef="department"> <ng-container *aavaHeaderCellDef> <div
class="header-cell"> <span class="header-text">Department</span> </div>
</ng-container> <ng-container *aavaCellDef="let row"> <div class="data-cell department-
cell"> <span class="department-badge">{{ row.department }}</span> </div>
</ng-container> </ng-container> <ng-container aavaColumnDef="status"> <ng-
container *aavaHeaderCellDef> <div class="header-cell"> <span class="header-
text">Status</span> </div> </ng-container> <ng-container *aavaCellDef="let
row"> <div class="data-cell status-cell"> <aava-tag
```

```
[label]="row.status" [color]="getStatusColor(row.status)" size="sm"
></aava-tag> </div> </ng-container> </ng-container> </aava-data-
grid> </div> </div> </div> </div></div>
```

```
basicData = [ { id: 1, name: 'Alice Johnson', email: 'alice.johnson@example.com',
department: 'Engineering', status: 'Active', }, { id: 2, name: 'Bob Smith', email:
'bob.smith@example.com', department: 'Marketing', status: 'Active', }, { id: 3, name:
'Carlos Martinez', email: 'carlos.martinez@example.com', department: 'Sales', status: 'Pending',
}, { id: 4, name: 'Diana Lee', email: 'diana.lee@example.com', department: 'Engineering',
status: 'Inactive', }, { id: 5, name: 'Ethan Brown', email: 'ethan.brown@example.com',
department: 'HR', status: 'Active', }, ]; displayedColumns = ['name', 'email', 'department', 'status'];
/** * Get the appropriate color for status tags */ getStatusColor( status: string ): 'success' |
'warning' | 'error' | 'info' | 'default' { switch (status.toLowerCase()) { case 'active': return
'success'; case 'pending': return 'warning'; case 'inactive': return 'error';
default: return 'default'; } }
```

```
basicData = [ { id: 1, name: 'Alice Johnson', email: 'alice.johnson@example.com',
department: 'Engineering', status: 'Active', }, { id: 2, name: 'Bob Smith', email:
'bob.smith@example.com', department: 'Marketing', status: 'Active', }, { id: 3, name:
'Carlos Martinez', email: 'carlos.martinez@example.com', department: 'Sales', status: 'Pending',
}, { id: 4, name: 'Diana Lee', email: 'diana.lee@example.com', department: 'Engineering',
status: 'Inactive', }, { id: 5, name: 'Ethan Brown', email: 'ethan.brown@example.com',
department: 'HR', status: 'Active', }, ]; displayedColumns = ['name', 'email', 'department', 'status'];
/** * Get the appropriate color for status tags */ getStatusColor( status: string ): 'success' |
'warning' | 'error' | 'info' | 'default' { switch (status.toLowerCase()) { case 'active': return
'success'; case 'pending': return 'warning'; case 'inactive': return 'error';
default: return 'default'; } }
```

## Sorting

Table with sortable columns and visual sort indicators.

```
<div class="demo-content"> <div class="demo-section"> <div class="demo-card"> <div class="card-content">
<aava-data-grid [dataSource]="employeeData" [displayedColumns]="displayedColumns" >
<ng-container avaColumnDef="name" [sortable]="true"> <ng-container *avaHeaderCellDef>Employee Name</ng-
container> <ng-container *avaCellDef="let row">{{ row.name }}</ng-container> </ng-container>
<ng-container avaColumnDef="position" [sortable]="true"> <ng-container *avaHeaderCellDef>Position</ng-
container> <ng-container *avaCellDef="let row" >{{ row.position }}</ng-container
> </ng-container> <ng-container avaColumnDef="salary" [sortable]="true"> <ng-
container *avaHeaderCellDef>Annual Salary</ng-container> <ng-container *avaCellDef="let row"
>${{ row.salary | number }}</ng-container > </ng-container> <ng-container
avaColumnDef="experience" [sortable]="true"> <ng-container *avaHeaderCellDef>Experience (Years)</ng-
container> <ng-container *avaCellDef="let row" >{{ row.experience }} years</ng-container
> </ng-container> <ng-container avaColumnDef="joinDate" [sortable]="true"> <ng-
container *avaHeaderCellDef>Join Date</ng-container> <ng-container *avaCellDef="let row" >
{{ row.joinDate | date }}</ng-container > </ng-container> <ng-container
avaColumnDef="department"> <ng-container *avaHeaderCellDef>Department</ng-container> <ng-
container *avaCellDef="let row" >{{ row.department }}</ng-container > </ng-
container> </aava-data-grid> </div> </div> </div></div>
```

```
<div class="demo-content"> <div class="demo-section"> <div class="demo-card"> <div class="card-content">
<aava-data-grid [dataSource]="employeeData" [displayedColumns]="displayedColumns" >
<ng-container avaColumnDef="name" [sortable]="true"> <ng-container *avaHeaderCellDef>Employee Name</ng-
container> <ng-container *avaCellDef="let row">{{ row.name }}</ng-container> </ng-container>
<ng-container avaColumnDef="position" [sortable]="true"> <ng-container *avaHeaderCellDef>Position</ng-
container> <ng-container *avaCellDef="let row" >{{ row.position }}</ng-container
> </ng-container> <ng-container avaColumnDef="salary" [sortable]="true"> <ng-
container *avaHeaderCellDef>Annual Salary</ng-container> <ng-container *avaCellDef="let row"
>${{ row.salary | number }}</ng-container > </ng-container> <ng-container
avaColumnDef="experience" [sortable]="true"> <ng-container *avaHeaderCellDef>Experience (Years)</ng-
container> <ng-container *avaCellDef="let row" >{{ row.experience }} years</ng-container
> </ng-container> <ng-container avaColumnDef="joinDate" [sortable]="true"> <ng-
container *avaHeaderCellDef>Join Date</ng-container> <ng-container *avaCellDef="let row" >
{{ row.joinDate | date }}</ng-container > </ng-container> <ng-container
avaColumnDef="department"> <ng-container *avaHeaderCellDef>Department</ng-container> <ng-
container *avaCellDef="let row" >{{ row.department }}</ng-container > </ng-
container> </aava-data-grid> </div> </div> </div></div>
```

```
employeeData = [ { id: 1, name: "Alice Johnson", position: "Senior Developer", salary: 95000,
joinDate: "2020-03-15", experience: 8, department: "Engineering", }, { id: 2, name: "Bob Smith",
position: "Marketing Manager", salary: 75000, joinDate: "2019-07-22", experience: 6, department:
"Marketing", }, { id: 3, name: "Carlos Martinez", position: "Sales Representative", salary: 55000,
joinDate: "2021-11-08", experience: 3, department: "Sales", }, { id: 4, name: "Diana Lee",
position: "UX Designer", salary: 70000, joinDate: "2020-09-12", experience: 5, department: "Design",
}, { id: 5, name: "Ethan Brown", position: "Data Analyst", salary: 65000, joinDate: "2022-01-30",
experience: 2, department: "Analytics", }, { id: 6, name: "Fiona Green", position: "Project
```

```
Manager",    salary: 85000,    joinDate: "2018-05-10",    experience: 9,    department: "Operations", }, {
id: 7,    name: "George Wang",    position: "DevOps Engineer",    salary: 90000,    joinDate: "2019-12-03",
experience: 7,    department: "Engineering", }, { id: 8,    name: "Hannah Kim",    position: "Content
Writer",    salary: 45000,    joinDate: "2021-08-15",    experience: 1,    department: "Marketing",
},];displayedColumns = ["name", "position", "salary", "experience", "joinDate"];salesData = [ { month: "January",
revenue: 125000, orders: 340, conversion: 3.2 }, { month: "February", revenue: 135000, orders: 385, conversion:
3.8 }, { month: "March", revenue: 142000, orders: 420, conversion: 4.1 }, { month: "April", revenue: 128000,
orders: 365, conversion: 3.5 }, { month: "May", revenue: 155000, orders: 445, conversion: 4.3 }, { month:
"June", revenue: 168000, orders: 478, conversion: 4.6 },];salesColumns = ["month", "revenue", "orders",
"conversion"];
```

```
employeeData = [ { id: 1,    name: "Alice Johnson",    position: "Senior Developer",    salary: 95000,
joinDate: "2020-03-15",    experience: 8,    department: "Engineering", }, { id: 2,    name: "Bob Smith",
position: "Marketing Manager",    salary: 75000,    joinDate: "2019-07-22",    experience: 6,    department:
"Marketing", }, { id: 3,    name: "Carlos Martinez",    position: "Sales Representative",    salary: 55000,
joinDate: "2021-11-08",    experience: 3,    department: "Sales", }, { id: 4,    name: "Diana Lee",
position: "UX Designer",    salary: 70000,    joinDate: "2020-09-12",    experience: 5,    department: "Design",
}, { id: 5,    name: "Ethan Brown",    position: "Data Analyst",    salary: 65000,    joinDate: "2022-01-30",
experience: 2,    department: "Analytics", }, { id: 6,    name: "Fiona Green",    position: "Project
Manager",    salary: 85000,    joinDate: "2018-05-10",    experience: 9,    department: "Operations", }, {
id: 7,    name: "George Wang",    position: "DevOps Engineer",    salary: 90000,    joinDate: "2019-12-03",
experience: 7,    department: "Engineering", }, { id: 8,    name: "Hannah Kim",    position: "Content
Writer",    salary: 45000,    joinDate: "2021-08-15",    experience: 1,    department: "Marketing",
},];displayedColumns = ["name", "position", "salary", "experience", "joinDate"];salesData = [ { month: "January",
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3.8 }, { month: "March", revenue: 142000, orders: 420, conversion: 4.1 }, { month: "April", revenue: 128000,
orders: 365, conversion: 3.5 }, { month: "May", revenue: 155000, orders: 445, conversion: 4.3 }, { month:
"June", revenue: 168000, orders: 478, conversion: 4.6 },];salesColumns = ["month", "revenue", "orders",
"conversion"];
```

## Filtering

Advanced filtering capabilities with multiple filter conditions and operators.

```
<div class="demo-content"> <div class="demo-section"> <div class="demo-card"> <div class="card-content">
<aava-data-grid [dataSource]="inventoryData" [displayedColumns]="inventoryColumns" >
<ng-container avaColumnDef="sku" [filter]="true" [sortable]="true"> <ng-container
*avaHeaderCellDef>SKU</ng-container> <ng-container *avaCellDef="let row"> <code
class="sku-code">{{ row.sku }}</code> </ng-container> </ng-container> <ng-container
avaColumnDef="product" [filter]="true" [sortable]="true" > <ng-container
*avaHeaderCellDef>Product Name</ng-container> <ng-container *avaCellDef="let row">{{ row.product }}
</ng-container> </ng-container> <ng-container avaColumnDef="category"
[filter]="true" [sortable]="true" > <ng-container *avaHeaderCellDef>Category</ng-
container> <ng-container *avaCellDef="let row"> <span class="category-tag">{{ row.category
}}</span> </ng-container> </ng-container> <ng-container avaColumnDef="stock"
[filter]="true" [sortable]="true"> <ng-container *avaHeaderCellDef>Stock</ng-container> <ng-
container *avaCellDef="let row"> <span class="stock-indicator"
[class]="row.stock < 50 ? 'low-stock' : 'normal-stock'" > {{ row.stock }} units
</span> </ng-container> </ng-container> <ng-container avaColumnDef="price"
[filter]="true" [sortable]="true"> <ng-container *avaHeaderCellDef>Price</ng-container> <ng-
container *avaCellDef="let row">${{ row.price }}</ng-container> </ng-container> </aava-data-grid>
</div> </div> </div></div>
```

```
<div class="demo-content"> <div class="demo-section"> <div class="demo-card"> <div class="card-content">
<aava-data-grid [dataSource]="inventoryData" [displayedColumns]="inventoryColumns" >
<ng-container avaColumnDef="sku" [filter]="true" [sortable]="true"> <ng-container
*avaHeaderCellDef>SKU</ng-container> <ng-container *avaCellDef="let row"> <code
class="sku-code">{{ row.sku }}</code> </ng-container> </ng-container> <ng-container
avaColumnDef="product" [filter]="true" [sortable]="true" > <ng-container
*avaHeaderCellDef>Product Name</ng-container> <ng-container *avaCellDef="let row">{{ row.product }}
</ng-container> </ng-container> <ng-container avaColumnDef="category"
[filter]="true" [sortable]="true" > <ng-container *avaHeaderCellDef>Category</ng-
container> <ng-container *avaCellDef="let row"> <span class="category-tag">{{ row.category
}}</span> </ng-container> </ng-container> <ng-container avaColumnDef="stock"
[filter]="true" [sortable]="true"> <ng-container *avaHeaderCellDef>Stock</ng-container> <ng-
container *avaCellDef="let row"> <span class="stock-indicator"
[class]="row.stock < 50 ? 'low-stock' : 'normal-stock'" > {{ row.stock }} units
</span> </ng-container> </ng-container> <ng-container avaColumnDef="price"
[filter]="true" [sortable]="true"> <ng-container *avaHeaderCellDef>Price</ng-container> <ng-
container *avaCellDef="let row">${{ row.price }}</ng-container> </ng-container> </aava-data-grid>
</div> </div> </div></div>
```

```
customerData = [ { id: 1,    name: "Alice Johnson",    email: "alice.johnson@techcorp.com",    company:
"TechCorp Inc.",    status: "Active",    location: "New York",    industry: "Technology",    revenue: 250000, },
{ id: 2,    name: "Bob Smith",    email: "bob.smith@retail.co",    company: "Retail Solutions Co.",    status:
"Inactive",    location: "Los Angeles",    industry: "Retail",    revenue: 180000, }, { id: 3,    name:
"Carlos Martinez",    email: "carlos@manufacturing.biz",    company: "Manufacturing Plus",    status: "Pending",
```

```
location: "Chicago", industry: "Manufacturing", revenue: 320000, }, { id: 4, name: "Diana Lee", email: "diana.lee@healthsys.org", company: "HealthSys Group", status: "Active", location: "Houston", industry: "Healthcare", revenue: 420000, }, { id: 5, name: "Ethan Brown", email: "ethan@finance.net", company: "Finance Solutions", status: "Active", location: "Miami", industry: "Finance", revenue: 380000, }, { id: 6, name: "Fiona Green", email: "fiona.green@education.edu", company: "Education First", status: "Inactive", location: "Seattle", industry: "Education", revenue: 95000, }, { id: 7, name: "George Wang", email: "george@consulting.pro", company: "Consulting Experts", status: "Active", location: "Boston", industry: "Consulting", revenue: 275000, }, { id: 8, name: "Hannah Kim", email: "hannah.kim@media.tv", company: "Media Productions", status: "Pending", location: "San Francisco", industry: "Media", revenue: 150000, }, { id: 9, name: "Ian Davis", email: "ian@logistics.freight", company: "Logistics Express", status: "Active", location: "Denver", industry: "Logistics", revenue: 200000, }, { id: 10, name: "Julia Roberts", email: "julia@realestate.homes", company: "Real Estate Pros", status: "Active", location: "Phoenix", industry: "Real Estate", revenue: 310000, },];displayedColumns = [ "name", "email", "company", "status", "location", "industry",];inventoryData = [ { sku: "TECH-001", product: "Wireless Mouse", category: "Electronics", stock: 150, price: 29.99, }, { sku: "TECH-002", product: "Bluetooth Keyboard", category: "Electronics", stock: 85, price: 79.99, }, { sku: "BOOK-001", product: "JavaScript Handbook", category: "Books", stock: 45, price: 34.95, }, { sku: "FURN-001", product: "Ergonomic Chair", category: "Furniture", stock: 12, price: 299.99, }, { sku: "TECH-003", product: "USB-C Cable", category: "Electronics", stock: 200, price: 14.99, }, { sku: "BOOK-002", product: "Design Principles", category: "Books", stock: 28, price: 42.5, }, { sku: "FURN-002", product: "Standing Desk", category: "Furniture", stock: 8, price: 449.99, }, { sku: "TECH-004", product: "Laptop Stand", category: "Electronics", stock: 67, price: 89.99, },];inventoryColumns = ["sku", "product", "category", "stock", "price"];
```

```
customerData = [ { id: 1, name: "Alice Johnson", email: "alice.johnson@techcorp.com", company: "TechCorp Inc.", status: "Active", location: "New York", industry: "Technology", revenue: 250000, }, { id: 2, name: "Bob Smith", email: "bob.smith@retail.co", company: "Retail Solutions Co.", status: "Inactive", location: "Los Angeles", industry: "Retail", revenue: 180000, }, { id: 3, name: "Carlos Martinez", email: "carlos@manufacturing.biz", company: "Manufacturing Plus", status: "Pending", location: "Chicago", industry: "Manufacturing", revenue: 320000, }, { id: 4, name: "Diana Lee", email: "diana.lee@healthsys.org", company: "HealthSys Group", status: "Active", location: "Houston", industry: "Healthcare", revenue: 420000, }, { id: 5, name: "Ethan Brown", email: "ethan@finance.net", company: "Finance Solutions", status: "Active", location: "Miami", industry: "Finance", revenue: 380000, }, { id: 6, name: "Fiona Green", email: "fiona.green@education.edu", company: "Education First", status: "Inactive", location: "Seattle", industry: "Education", revenue: 95000, }, { id: 7, name: "George Wang", email: "george@consulting.pro", company: "Consulting Experts", status: "Active", location: "Boston", industry: "Consulting", revenue: 275000, }, { id: 8, name: "Hannah Kim", email: "hannah.kim@media.tv", company: "Media Productions", status: "Pending", location: "San Francisco", industry: "Media", revenue: 150000, }, { id: 9, name: "Ian Davis", email: "ian@logistics.freight", company: "Logistics Express", status: "Active", location: "Denver", industry: "Logistics", revenue: 200000, }, { id: 10, name: "Julia Roberts", email: "julia@realestate.homes", company: "Real Estate Pros", status: "Active", location: "Phoenix", industry: "Real Estate", revenue: 310000, },];displayedColumns = [ "name", "email", "company", "status", "location", "industry",];inventoryData = [ { sku: "TECH-001", product: "Wireless Mouse", category: "Electronics", stock: 150, price: 29.99, }, { sku: "TECH-002", product: "Bluetooth Keyboard", category: "Electronics", stock: 85, price: 79.99, }, { sku: "BOOK-001", product: "JavaScript Handbook", category: "Books", stock: 45, price: 34.95, }, { sku: "FURN-001", product: "Ergonomic Chair", category: "Furniture", stock: 12, price: 299.99, }, { sku: "TECH-003", product: "USB-C Cable", category: "Electronics", stock: 200, price: 14.99, }, { sku: "BOOK-002", product: "Design Principles", category: "Books", stock: 28, price: 42.5, }, { sku: "FURN-002", product: "Standing Desk", category: "Furniture", stock: 8, price: 449.99, }, { sku: "TECH-004", product: "Laptop Stand", category: "Electronics", stock: 67, price: 89.99, },];inventoryColumns = ["sku", "product", "category", "stock", "price"];
```

# Features

## Flexible Column System

- Content projection-based column definitions
- Custom header and cell templates
- Configurable sorting and filtering per column
- Dynamic column visibility

## Advanced Sorting

- Multi-column sorting support
- Visual sort indicators (ascending/descending)
- Configurable sort behavior per column
- Sort state management

# Powerful Filtering

- Multiple filter conditions and operators
- Real-time filtering with search
- Filter panel with advanced options
- Clear and apply filter actions

# Custom Templates

- Flexible cell content templates
- Custom header templates
- Template context with row data and index
- Support for complex cell content

# Responsive Design

- Horizontal scrolling for wide tables
- Mobile-friendly design
- Adaptive column sizing
- Touch-optimized interactions

# Performance Optimized

- OnPush change detection strategy
- Efficient data handling
- Optimized rendering
- Memory management

# API Reference

## Inputs

Property	Type	Default	Description
dataSource	any[]	[]	Array of data objects to display in the table
displayedColumns	string[]	[]	Array of column names to display
dataSource			
any[]			
[]			
displayedColumns			
string[]			
[]			

## Outputs

Property	Type	Description
dataSorted	EventEmitter	Emitted when data is sorted with sorted data

dataSorted
EventEmitter<any[]>

## Directives

Property	Type	Default	Description
avaColumnDef	string	-	Column name/identifier (required)
sortable	boolean	false	Enable sorting for this column
filter	boolean	false	Enable filtering for this column
avaColumnDef			
string			
sortable			
boolean			
false			
filter			
boolean			
false			
Property	Type	Description	
Template	TemplateRef	Template for custom header cell content	
TemplateRef<any>			
Property	Type	Description	
Template	TemplateRef	Template for custom cell content with context	
TemplateRef<any>			

## Interfaces

interface FilterCondition {   label: string; // Display label for filter condition   value: string; // Value for filter condition}
interface FilterCondition {   label: string; // Display label for filter condition   value: string; // Value for filter condition}

## Methods

Method	Parameters	Description
onSort()	column: AvaColumnDefDirective	Handle column sorting
applySort()	None	Apply current sort to data
applyFilter()	columnName: string, event: Event	Apply filter to specific column
clearFilter()	columnName: string, event: any	Clear filter for specific column
openPanel()	columnName: string, event: any	Open filter panel for column
checkForOpen()	columnName: string	Check if filter panel is open for column
onSort()		

column: AvaColumnDefDirective
applySort()
applyFilter()
columnName: string, event: Event
clearFilter()
columnName: string, event: any
openPanel()
columnName: string, event: any
checkForOpen()
columnName: string

## Properties

Property   Type   Description
sortColumn   string   null   Currently sorted column
sortDirection   'asc'   'desc'   ''   Current sort direction
sortedData   any[]   Currently sorted and filtered data
filterColumn   Array<{column: string, type: string, value: any, open: boolean}>   Active filters
defaultFilterConditions   FilterCondition[]   Available filter conditions
sortColumn
string   null
sortDirection
'asc'   'desc'   ''
sortedData
any[]
filterColumn
Array<{column: string, type: string, value: any, open: boolean}>
defaultFilterConditions
FilterCondition[]

## CSS Custom Properties

The component uses CSS custom properties for dynamic styling:

## Container Properties

Property	Description
--grid-font-family-body	Font family for table content
--grid-text-color	Text color for table content
--grid-background-color-odd	Background color for odd rows
--grid-background-color-even	Background color for even rows
--grid-border	Border color for grid elements

--grid-font-family-body

--grid-text-color

--grid-background-color-odd

--grid-background-color-even

--grid-border

## Table Properties

Property	Description
--table-border	Border color for table elements

--table-border

## CSS Classes

The component uses CSS classes for styling and state management:

## Container Classes

Class	Description
.ava-data-table-wrapper	Main table container
.data-table-wrapper	Inner table wrapper with scrolling
.ava-data-table	Main table element

.ava-data-table-wrapper

.data-table-wrapper

.ava-data-table

## Cell Classes

Class	Description
.cell-wrapper	Header cell content wrapper
.grid-column-container	Column header container
.filter	Filter icon container
.filter-wrapper	Filter panel container
.default-filter-actions	Filter action buttons container
.cell-link	Link styling within cells

.cell-wrapper

.grid-column-container

.filter

.filter-wrapper



.default-filter-actions
.cell-link

## State Classes

Class	Description
.sort-icon	Sort indicator icon
Various pseudo-classes	Hover and focus states

.sort-icon
------------

## Best Practices

## Data Structure

- Use consistent data structure across all rows
- Ensure column names match displayedColumns array
- Provide meaningful default values for missing data
- Optimize data for sorting and filtering

## Column Definitions

- Use descriptive column names
- Enable sorting only for relevant columns
- Enable filtering for searchable data
- Provide meaningful header labels

## Custom Templates

- Keep cell templates simple and focused
- Use template context for row data access
- Implement proper error handling in templates
- Consider accessibility in custom content

## Performance

- Limit data size for optimal performance
- Use OnPush change detection strategy
- Implement virtual scrolling for large datasets
- Optimize filter and sort operations

## Accessibility

- Provide proper ARIA labels
- Ensure keyboard navigation support
- Use semantic HTML structure
- Maintain color contrast ratios

## Responsive Design

- Test table on various screen sizes

- Implement horizontal scrolling for wide tables
- Consider mobile-specific interactions
- Optimize touch targets for mobile

## **Accessibility**

### **ARIA Support**

- Proper table semantics
- Sort and filter announcements
- Screen reader friendly navigation
- Status updates for dynamic content

### **Keyboard Navigation**

- Tab navigation through table elements
- Arrow key navigation between cells
- Enter/Space activation for actions
- Escape key for closing panels

### **Focus Management**

- Clear focus indicators
- Logical tab order
- Focus restoration after actions
- Focus trapping in modals/panels

### **Screen Reader Support**

- Descriptive labels for actions
- Context information for data
- Status announcements
- Clear navigation structure

### **Browser Support**

- Modern Browsers: Full support for all features
- CSS Grid/Flexbox: Required for layout
- ES6+ Features: Required for component functionality
- Template Ref: Required for content projection
- Change Detection: OnPush strategy support