

Filter

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

Filter

A comprehensive filter component that provides both single and multi-selection modes, grouped filter options, and flexible positioning. Built with accessibility in mind and designed for complex data filtering scenarios in data tables, search interfaces, and content management systems.

How to use

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

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```

Note: The Filter component is standalone and includes all necessary dependencies for checkbox, icon, and common modules.

Basic Usage

Simple filter implementation with multi-selection support and grouped options.

```
<aava-filter size="md" title="Filter Products" [filterGroups]="filterGroups" [showBadge]="true"
(filterChange)="onFilterChange($event)" (clearAll)="onClearAllFilters()"></aava-filter><div class="product-card"
*ngFor="let product of filteredProducts"> <h4>{{ product.name }}</h4> <p>Category: {{ product.category }}</p>
<p class="price">${{ product.price }}</p></div>
```

```
<aava-filter size="md" title="Filter Products" [filterGroups]="filterGroups" [showBadge]="true"
(filterChange)="onFilterChange($event)" (clearAll)="onClearAllFilters()"></aava-filter><div class="product-card"
*ngFor="let product of filteredProducts"> <h4>{{ product.name }}</h4> <p>Category: {{ product.category }}</p>
<p class="price">${{ product.price }}</p></div>
```

```
filterGroups = [ { id: 'category', title: 'Category', options: [ { id: 'electronics',
label: 'Electronics', value: 'electronics' }, { id: 'clothing', label: 'Clothing', value: 'clothing' },
{ id: 'books', label: 'Books', value: 'books' }, { id: 'home', label: 'Home & Garden', value: 'home' },
], }, { id: 'price', title: 'Price Range', options: [ { id: 'under-50', label: 'Under
$50', value: { min: 0, max: 50 } }, { id: '50-100', label: '$50 - $100', value: { min: 50, max: 100 } },
{ id: '100-200', label: '$100 - $200', value: { min: 100, max: 200 } }, ], ],
products = [ { id: 1, name: 'Laptop', category: 'electronics', price: 999 }, { id: 2, name:
'Smartphone', category: 'electronics', price: 699 }, { id: 3, name: 'T-Shirt', category: 'clothing', price: 25
}, { id: 4, name: 'Jeans', category: 'clothing', price: 45 }, { id: 5, name: 'Novel', category: 'books',
price: 15 }, { id: 6, name: 'Cookbook', category: 'books', price: 35 }, { id: 7, name: 'Coffee Table',
category: 'home', price: 299 }, { id: 8, name: 'Garden Chair', category: 'home', price: 89 }, ];
filteredProducts = [...this.products]; activeFilters: Record<string, FilterOption[]> = {};
onFilterChange(filters: Record<string, FilterOption[]>): void { console.log('Filter changed:', filters);
this.activeFilters = filters; this.applyFilters(); } onClearAllFilters(): void { console.log('All filters
cleared'); this.activeFilters = {}; this.filteredProducts = [...this.products]; } private applyFilters():
void { this.filteredProducts = this.products.filter((product) => { // Category filter if (
this.activeFilters['category'] && this.activeFilters['category'].length > 0 ) { const
categoryMatch = this.activeFilters['category'].some( (f: FilterOption) => f.value === product.category
); if (!categoryMatch) return false; } // Price filter if (
this.activeFilters['price'] && this.activeFilters['price'].length > 0 ) { const priceMatch =
this.activeFilters['price'].some( (f: FilterOption) => { const priceRange = f.value as
PriceRange; return ( product.price >= priceRange.min && product.price <= priceRange.max
); } ); if (!priceMatch) return false; } return true; }); }
getActiveFiltersCount(): number { let count = 0; Object.values(this.activeFilters).forEach((group) => {
if (Array.isArray(group)) { count += group.length; } }); return count; }
getSelectedCategories(): string { const categories = this.activeFilters['category']; if (!categories ||
categories.length === 0) return 'None'; return categories.map((c: FilterOption) => c.label).join(', '); }
getSelectedPriceRanges(): string { const prices = this.activeFilters['price']; if (!prices || prices.length
=== 0) return 'None'; return prices.map((p: FilterOption) => p.label).join(', '); }
```

```
filterGroups = [ { id: 'category', title: 'Category', options: [ { id: 'electronics',
label: 'Electronics', value: 'electronics' }, { id: 'clothing', label: 'Clothing', value: 'clothing' },
{ id: 'books', label: 'Books', value: 'books' }, { id: 'home', label: 'Home & Garden', value: 'home' },
], }, { id: 'price', title: 'Price Range', options: [ { id: 'under-50', label: 'Under
$50', value: { min: 0, max: 50 } }, { id: '50-100', label: '$50 - $100', value: { min: 50, max: 100 } },
{ id: '100-200', label: '$100 - $200', value: { min: 100, max: 200 } }, ], ],
```

```

},  ]; products = [    { id: 1, name: 'Laptop', category: 'electronics', price: 999 },    { id: 2, name: 'Smartphone', category: 'electronics', price: 699 },    { id: 3, name: 'T-Shirt', category: 'clothing', price: 25 },    { id: 4, name: 'Jeans', category: 'clothing', price: 45 },    { id: 5, name: 'Novel', category: 'books', price: 15 },    { id: 6, name: 'Cookbook', category: 'books', price: 35 },    { id: 7, name: 'Coffee Table', category: 'home', price: 299 },    { id: 8, name: 'Garden Chair', category: 'home', price: 89 },  ];
filteredProducts = [...this.products]; activeFilters: Record<string, FilterOption[]> = {};
onFilterChange(filters: Record<string, FilterOption[]>): void {    console.log('Filter changed:', filters);
this.activeFilters = filters;    this.applyFilters(); } onClearAllFilters(): void {    console.log('All filters cleared');    this.activeFilters = {};    this.filteredProducts = [...this.products]; } private applyFilters(): void {    this.filteredProducts = this.products.filter((product) => {        // Category filter        if (this.activeFilters['category'] && this.activeFilters['category'].length > 0 ) {            const categoryMatch = this.activeFilters['category'].some(                (f: FilterOption) => f.value === product.category            );            if (!categoryMatch) return false;        }        // Price filter        if (this.activeFilters['price'] && this.activeFilters['price'].length > 0 ) {            const priceMatch = this.activeFilters['price'].some(                (f: FilterOption) => {                    const priceRange = f.value as PriceRange;                    return (                        product.price >= priceRange.min && product.price <= priceRange.max                    );                }            );            if (!priceMatch) return false;        }        return true;    }); }
getActiveFiltersCount(): number {    let count = 0;    Object.values(this.activeFilters).forEach((group) => {
if (Array.isArray(group)) {        count += group.length;    });    return count; }
getSelectedCategories(): string {    const categories = this.activeFilters['category'];    if (!categories || categories.length === 0) return 'None';    return categories.map((c: FilterOption) => c.label).join(', '); }
getSelectedPriceRanges(): string {    const prices = this.activeFilters['price'];    if (!prices || prices.length === 0) return 'None';    return prices.map((p: FilterOption) => p.label).join(', '); }

```

Multi-Selection Mode

Advanced multi-selection capabilities with grouped filters and clear all functionality.

```

<aava-filter size="md" title="Filter Users" [filterGroups]="filterGroups" [showBadge]="true"
[showApplyButton]="true" (filterChange)="onFilterChange($event)" (clearAll)="onClearAllFilters()"
(apply)="onApplyFilters($event)"></aava-filter><table> <thead> <tr> <th>Name</th> <th>Status</th>
<th>Role</th> <th>Department</th> <th>Experience</th> </tr> </thead> <tbody> <tr *ngFor="let
user of filteredUsers"> <td>{{ user.name }}</td> <td> <span class="status-badge"
[ngClass]=" 'status-' + user.status"> {{ user.status }} </span> </td> <td>{{ user.role }}
</td> <td>{{ user.department }}</td> <td>{{ user.experience }}</td> </tr> </tbody></table>

```

```

<aava-filter size="md" title="Filter Users" [filterGroups]="filterGroups" [showBadge]="true"
[showApplyButton]="true" (filterChange)="onFilterChange($event)" (clearAll)="onClearAllFilters()"
(apply)="onApplyFilters($event)"></aava-filter><table> <thead> <tr> <th>Name</th> <th>Status</th>
<th>Role</th> <th>Department</th> <th>Experience</th> </tr> </thead> <tbody> <tr *ngFor="let
user of filteredUsers"> <td>{{ user.name }}</td> <td> <span class="status-badge"
[ngClass]=" 'status-' + user.status"> {{ user.status }} </span> </td> <td>{{ user.role }}
</td> <td>{{ user.department }}</td> <td>{{ user.experience }}</td> </tr> </tbody></table>

```

```

filterGroups = [    {        id: 'status',        title: 'Status',        options: [            { id: 'active', label: 'Active', value: 'active' },            { id: 'inactive', label: 'Inactive', value: 'inactive' },            { id: 'pending', label: 'Pending', value: 'pending' },            { id: 'archived', label: 'Archived', value: 'archived' },        ],    },    {        id: 'role',        title: 'Role',        options: [            { id: 'admin', label: 'Admin', value: 'admin' },            { id: 'user', label: 'User', value: 'user' },            { id: 'moderator', label: 'Moderator', value: 'moderator' },            { id: 'guest', label: 'Guest', value: 'guest' },        ],    },    {        id: 'department',        title: 'Department',        options: [            { id: 'it', label: 'IT', value: 'IT' },            { id: 'hr', label: 'HR', value: 'HR' },            { id: 'finance', label: 'Finance', value: 'Finance' },            { id: 'marketing', label: 'Marketing', value: 'Marketing' },            { id: 'sales', label: 'Sales', value: 'Sales' },        ],    },    {        id: 'experience',        title: 'Experience Level',        options: [            { id: 'junior', label: 'Junior (0-2 years)', value: 'junior' },            { id: 'mid', label: 'Mid-level (3-5 years)', value: 'mid' },            { id: 'senior', label: 'Senior (6-10 years)', value: 'senior' },        ],    },    { id: 1, name: 'John Doe', status: 'active', role: 'admin', department: 'IT', experience: 'senior', },    { id: 2, name: 'Jane Smith', status: 'active', role: 'user', department: 'HR', experience: 'mid', },    { id: 3, name: 'Bob Johnson', status: 'inactive', role: 'moderator', department: 'Finance', experience: 'senior', },    { id: 4, name: 'Alice Brown', status: 'active', role: 'user', department: 'Marketing', experience: 'junior', },    { id: 5, name: 'Charlie Wilson', status: 'pending', role: 'user', department: 'IT', experience: 'mid', },    { id: 6, name: 'Diana Davis', status: 'active', role: 'admin', department: 'HR', experience: 'expert', },    { id: 7, name: 'Evan Miller', status: 'archived', role: 'guest', department: 'Sales', experience: 'junior', },    { id: 8, name: 'Fiona Garcia', status: 'active', role: 'moderator', department: 'IT', experience: 'senior', }, ]; filteredUsers = [...this.users]; activeFilters: Record<string, FilterOption[]> = {};
onFilterChange(filters: Record<string, FilterOption[]>): void {    console.log('Filter changed:', filters);
this.activeFilters = filters;    this.applyFilters(); } onClearAllFilters(): void {    console.log('All filters cleared');    this.activeFilters = {};    this.filteredUsers = [...this.users]; } onApplyFilters(filters: Record<string, FilterOption[]>): void {    console.log('Filters applied:', filters);    this.activeFilters = filters;    this.applyFilters(); } private applyFilters(): void {    this.filteredUsers = this.users.filter((user) => {        // Status filter        if (this.activeFilters['status'] && this.activeFilters['status'].length > 0 ) {            const statusMatch = this.activeFilters['status'].some(                (f: FilterOption) => f.value === user.status            );            if (!statusMatch) return false;        }        // Role filter        if (this.activeFilters['role'] && this.activeFilters['role'].length > 0 ) {            const roleMatch = this.activeFilters['role'].some(                (f: FilterOption) => f.value === user.role            );            if (!roleMatch) return false;        }        // Department filter        if (this.activeFilters['department'] && this.activeFilters['department'].length > 0 ) {            const deptMatch =

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this.activeFilters['department'].some(      (f: FilterOption) => f.value === user.department      );
if (!deptMatch) return false;      }      // Experience filter      if (      this.activeFilters['experience']
&&      this.activeFilters['experience'].length > 0      ) {      const expMatch =
this.activeFilters['experience'].some(      (f: FilterOption) => f.value === user.experience      );
if (!expMatch) return false;      }      return true;      }); } getActiveFiltersCount(): number {      let count =
0;      Object.values(this.activeFilters).forEach((group) => {      if (Array.isArray(group)) {      count +=
group.length;      }      });      return count; } getFilterSummary(): string {      const summaries: string[] = [];
if (this.activeFilters['status']?.length) {      summaries.push(`${this.activeFilters['status'].length}
status(es)`);      }      if (this.activeFilters['role']?.length) {
summaries.push(`${this.activeFilters['role'].length} role(s)`);      }      if
(this.activeFilters['department']?.length) {      summaries.push(
`${this.activeFilters['department'].length} department(s)`      );      }      if
(this.activeFilters['experience']?.length) {      summaries.push(
`${this.activeFilters['experience'].length} experience level(s)`      );      }      return summaries.length > 0 ?
summaries.join(', ') : 'No filters applied'; }

```

```

filterGroups = [      {      id: 'status',      title: 'Status',      options: [      { id: 'active', label:
'Active', value: 'active' },      { id: 'inactive', label: 'Inactive', value: 'inactive' },      { id:
'pending', label: 'Pending', value: 'pending' },      { id: 'archived', label: 'Archived', value: 'archived' },
],      },      {      id: 'role',      title: 'Role',      options: [      { id: 'admin', label: 'Admin', value:
'admin' },      { id: 'user', label: 'User', value: 'user' },      { id: 'moderator', label: 'Moderator',
value: 'moderator' },      { id: 'guest', label: 'Guest', value: 'guest' },      ],      },      {      id:
'department',      title: 'Department',      options: [      { id: 'it', label: 'IT', value: 'IT' },      {
id: 'hr', label: 'HR', value: 'HR' },      { id: 'finance', label: 'Finance', value: 'Finance' },      { id:
'marketing', label: 'Marketing', value: 'Marketing' },      { id: 'sales', label: 'Sales', value: 'Sales' },
],      },      {      id: 'experience',      title: 'Experience Level',      options: [      { id: 'junior', label:
'Junior (0-2 years)', value: 'junior' },      { id: 'mid', label: 'Mid-level (3-5 years)', value: 'mid' },
{ id: 'senior', label: 'Senior (6-10 years)', value: 'senior' },      ],      }, ]; users = [      {      id: 1,
name: 'John Doe',      status: 'active',      role: 'admin',      department: 'IT',      experience: 'senior',
},      {      id: 2,      name: 'Jane Smith',      status: 'active',      role: 'user',      department: 'HR',
experience: 'mid',      },      {      id: 3,      name: 'Bob Johnson',      status: 'inactive',      role:
'moderator',      department: 'Finance',      experience: 'senior',      },      {      id: 4,      name: 'Alice
Brown',      status: 'active',      role: 'user',      department: 'Marketing',      experience: 'junior',      },
{      id: 5,      name: 'Charlie Wilson',      status: 'pending',      role: 'user',      department: 'IT',
experience: 'mid',      },      {      id: 6,      name: 'Diana Davis',      status: 'active',      role: 'admin',
department: 'HR',      experience: 'expert',      },      {      id: 7,      name: 'Evan Miller',      status:
'archived',      role: 'guest',      department: 'Sales',      experience: 'junior',      },      {      id: 8,
name: 'Fiona Garcia',      status: 'active',      role: 'moderator',      department: 'IT',      experience:
'senior',      },      ]; filteredUsers = [...this.users]; activeFilters: Record<string, FilterOption[]> = {};
onFilterChange(filters: Record<string, FilterOption[]>): void {      console.log('Filter changed:', filters);
this.activeFilters = filters;      this.applyFilters(); } onClearAllFilters(): void {      console.log('All filters
cleared');      this.activeFilters = {};      this.filteredUsers = [...this.users]; } onApplyFilters(filters:
Record<string, FilterOption[]>): void {      console.log('Filters applied:', filters);      this.activeFilters =
filters;      this.applyFilters(); } private applyFilters(): void {      this.filteredUsers =
this.users.filter((user) => {      // Status filter      if (      this.activeFilters['status'] &&
this.activeFilters['status'].length > 0      ) {      const statusMatch = this.activeFilters['status'].some(
(f: FilterOption) => f.value === user.status      );      if (!statusMatch) return false;      }      // Role
filter      if (this.activeFilters['role'] && this.activeFilters['role'].length > 0) {      const roleMatch =
this.activeFilters['role'].some(      (f: FilterOption) => f.value === user.role      );      if
(!roleMatch) return false;      }      // Department filter      if (      this.activeFilters['department'] &&
this.activeFilters['department'].length > 0      ) {      const deptMatch =
this.activeFilters['department'].some(      (f: FilterOption) => f.value === user.department      );
if (!deptMatch) return false;      }      // Experience filter      if (      this.activeFilters['experience']
&&      this.activeFilters['experience'].length > 0      ) {      const expMatch =
this.activeFilters['experience'].some(      (f: FilterOption) => f.value === user.experience      );
if (!expMatch) return false;      }      return true;      }); } getActiveFiltersCount(): number {      let count =
0;      Object.values(this.activeFilters).forEach((group) => {      if (Array.isArray(group)) {      count +=
group.length;      }      });      return count; } getFilterSummary(): string {      const summaries: string[] = [];
if (this.activeFilters['status']?.length) {      summaries.push(`${this.activeFilters['status'].length}
status(es)`);      }      if (this.activeFilters['role']?.length) {
summaries.push(`${this.activeFilters['role'].length} role(s)`);      }      if
(this.activeFilters['department']?.length) {      summaries.push(
`${this.activeFilters['department'].length} department(s)`      );      }      if
(this.activeFilters['experience']?.length) {      summaries.push(
`${this.activeFilters['experience'].length} experience level(s)`      );      }      return summaries.length > 0 ?
summaries.join(', ') : 'No filters applied'; }

```

Multi-Selection Features

- Grouped Filters: Organize filters into logical groups with titles
- Multi-Select Groups: Support for both single and multi-selection within groups
- Clear All: Bulk clear functionality for all selected filters
- Active Count Badge: Visual indicator of active filter count
- Apply Button: Optional apply button for controlled filter application

Single-Selection Mode

Streamlined single-selection interface optimized for quick filtering decisions.

```
<aava-filter [singleSelection]="true" title="Sort By" [filterGroups]="sortFilterGroups" [showClearAll]="true"
[showApplyButton]="false" size="md" (singleSelectionChange)="onSortChange($event)"></aava-filter><div
class="product-card" *ngFor="let product of sortedProducts; let i = index"> <span class="order-number">#{{ i + 1
}}</span> <h4>{{ product.name }}</h4> <p>Category: {{ product.category }}</p> <p class="price">${{
product.price }}</p> <p class="date">{{ product.date | date : "shortDate" }}</p></div>
```

```
<aava-filter [singleSelection]="true" title="Sort By" [filterGroups]="sortFilterGroups" [showClearAll]="true"
[showApplyButton]="false" size="md" (singleSelectionChange)="onSortChange($event)"></aava-filter><div
class="product-card" *ngFor="let product of sortedProducts; let i = index"> <span class="order-number">#{{ i + 1
}}</span> <h4>{{ product.name }}</h4> <p>Category: {{ product.category }}</p> <p class="price">${{
product.price }}</p> <p class="date">{{ product.date | date : "shortDate" }}</p></div>
```

```
sortFilterGroups = [ { id: "sortBy", title: "Sort By", options: [ { id: "name-asc", label: "Name
(A-Z)", value: "name_asc" }, { id: "name-desc", label: "Name (Z-A)", value: "name_desc" }, { id: "price-
low", label: "Price (Low to High)", value: "price_asc" }, { id: "price-high", label: "Price (High to Low)",
value: "price_desc" }, { id: "newest", label: "Newest First", value: "date_desc" }, { id: "oldest",
label: "Oldest First", value: "date_asc" }, ], }, ], products = [ { id: 1, name: 'Laptop',
category: 'electronics', price: 999, date: '2024-01-15', }, { id: 2, name: 'Smartphone',
category: 'electronics', price: 699, date: '2024-01-10', }, { id: 3, name: 'T-Shirt',
category: 'clothing', price: 25, date: '2024-01-20', }, { id: 4, name: 'Jeans',
category: 'clothing', price: 45, date: '2024-01-18', }, { id: 5, name: 'Novel', category: 'books',
price: 15, date: '2024-01-12', }, { id: 6, name: 'Cookbook', category: 'books', price: 35,
date: '2024-01-14', }, { id: 7, name: 'Coffee Table', category: 'home', price: 299,
date: '2024-01-16', }, { id: 8, name: 'Garden Chair', category: 'home', price: 89,
date: '2024-01-19', }, { id: 9, name: 'Running Shoes', category: 'sports', price: 120,
date: '2024-01-17', }, { id: 10, name: 'Yoga Mat', category: 'sports', price: 45,
date: '2024-01-13', }, ], sortedProducts = [...this.products]; selectedSort: FilterOption | null = null;
selectedCategory: FilterOption | null = null; selectedStatus: FilterOption | null = null;
onSortChange(selection: Record<string, FilterOption | null>): void { const sortOption = selection['sortBy'];
this.selectedSort = sortOption; console.log('Sort changed:', sortOption); if (sortOption) {
this.applySorting(sortOption.value); } } private applySorting(sortBy: string): void { this.sortedProducts
= [...this.products]; switch (sortBy) { case 'name_asc': this.sortedProducts.sort((a, b) =>
a.name.localeCompare(b.name)); break; case 'name_desc': this.sortedProducts.sort((a, b) =>
b.name.localeCompare(a.name)); break; case 'price_asc': this.sortedProducts.sort((a, b) =>
a.price - b.price); break; case 'price_desc': this.sortedProducts.sort((a, b) => b.price -
a.price); break; case 'date_desc': this.sortedProducts.sort( (a, b) => new
Date(b.date).getTime() - new Date(a.date).getTime() ); break; case 'date_asc':
this.sortedProducts.sort( (a, b) => new Date(a.date).getTime() - new Date(b.date).getTime() );
break; } } getSelectedSortLabel(): string { return this.selectedSort ? this.selectedSort.label : 'None';
} getSelectedCategoryLabel(): string { return this.selectedCategory ? this.selectedCategory.label : 'None'; }
getSelectedStatusLabel(): string { return this.selectedStatus ? this.selectedStatus.label : 'None'; }
```

```
sortFilterGroups = [ { id: "sortBy", title: "Sort By", options: [ { id: "name-asc", label: "Name
(A-Z)", value: "name_asc" }, { id: "name-desc", label: "Name (Z-A)", value: "name_desc" }, { id: "price-
low", label: "Price (Low to High)", value: "price_asc" }, { id: "price-high", label: "Price (High to Low)",
value: "price_desc" }, { id: "newest", label: "Newest First", value: "date_desc" }, { id: "oldest",
label: "Oldest First", value: "date_asc" }, ], }, ], products = [ { id: 1, name: 'Laptop',
category: 'electronics', price: 999, date: '2024-01-15', }, { id: 2, name: 'Smartphone',
category: 'electronics', price: 699, date: '2024-01-10', }, { id: 3, name: 'T-Shirt',
category: 'clothing', price: 25, date: '2024-01-20', }, { id: 4, name: 'Jeans',
category: 'clothing', price: 45, date: '2024-01-18', }, { id: 5, name: 'Novel', category: 'books',
price: 15, date: '2024-01-12', }, { id: 6, name: 'Cookbook', category: 'books', price: 35,
date: '2024-01-14', }, { id: 7, name: 'Coffee Table', category: 'home', price: 299,
date: '2024-01-16', }, { id: 8, name: 'Garden Chair', category: 'home', price: 89,
date: '2024-01-19', }, { id: 9, name: 'Running Shoes', category: 'sports', price: 120,
date: '2024-01-17', }, { id: 10, name: 'Yoga Mat', category: 'sports', price: 45,
date: '2024-01-13', }, ], sortedProducts = [...this.products]; selectedSort: FilterOption | null = null;
selectedCategory: FilterOption | null = null; selectedStatus: FilterOption | null = null;
onSortChange(selection: Record<string, FilterOption | null>): void { const sortOption = selection['sortBy'];
this.selectedSort = sortOption; console.log('Sort changed:', sortOption); if (sortOption) {
this.applySorting(sortOption.value); } } private applySorting(sortBy: string): void { this.sortedProducts
= [...this.products]; switch (sortBy) { case 'name_asc': this.sortedProducts.sort((a, b) =>
a.name.localeCompare(b.name)); break; case 'name_desc': this.sortedProducts.sort((a, b) =>
b.name.localeCompare(a.name)); break; case 'price_asc': this.sortedProducts.sort((a, b) =>
a.price - b.price); break; case 'price_desc': this.sortedProducts.sort((a, b) => b.price -
a.price); break; case 'date_desc': this.sortedProducts.sort( (a, b) => new
Date(b.date).getTime() - new Date(a.date).getTime() ); break; case 'date_asc':
this.sortedProducts.sort( (a, b) => new Date(a.date).getTime() - new Date(b.date).getTime() );
break; } } getSelectedSortLabel(): string { return this.selectedSort ? this.selectedSort.label : 'None';
} getSelectedCategoryLabel(): string { return this.selectedCategory ? this.selectedCategory.label : 'None'; }
getSelectedStatusLabel(): string { return this.selectedStatus ? this.selectedStatus.label : 'None'; }
```

Single-Selection Features

- Radio-like Behavior: Only one option can be selected per group
- Auto-close: Panel automatically closes after selection
- Visual Feedback: Clear selection indicators with check icons
- Simplified Interface: No checkboxes, clean click-to-select interaction

Configuration

Flexible configuration and sizing options for different layout requirements.

```
<aava-filter size="md" title="No Clear All" [filterGroups]="simpleFilterGroups" [showClearAll]="false"
(filterChange)="onFilterChange($event)"></aava-filter><aava-filter size="md" title="Apply Mode"
[filterGroups]="simpleFilterGroups" [showApplyButton]="true" (filterChange)="onFilterChange($event)"
(apply)="onApplyFilters($event)"></aava-filter><aava-filter size="md" title="Right Panel"
[filterGroups]="simpleFilterGroups" position="right" (filterChange)="onFilterChange($event)"></aava-filter>
<aava-filter size="md" title="Disabled Filter" [filterGroups]="simpleFilterGroups" [disabled]="true"></aava-
filter>
```

```
<aava-filter size="md" title="No Clear All" [filterGroups]="simpleFilterGroups" [showClearAll]="false"
(filterChange)="onFilterChange($event)"></aava-filter><aava-filter size="md" title="Apply Mode"
[filterGroups]="simpleFilterGroups" [showApplyButton]="true" (filterChange)="onFilterChange($event)"
(apply)="onApplyFilters($event)"></aava-filter><aava-filter size="md" title="Right Panel"
[filterGroups]="simpleFilterGroups" position="right" (filterChange)="onFilterChange($event)"></aava-filter>
<aava-filter size="md" title="Disabled Filter" [filterGroups]="simpleFilterGroups" [disabled]="true"></aava-
filter>
```

```
simpleFilterGroups = [ { id: 'simple', title: 'Quick Filter', options: [ { id:
'option1', label: 'Option 1', value: 'opt1' }, { id: 'option2', label: 'Option 2', value: 'opt2' },
{ id: 'option3', label: 'Option 3', value: 'opt3' }, ], }, ]; onFilterChange(filters: Record<string,
FilterOption[]>): void { console.log('Filter changed:', filters); } onApplyFilters(filters: Record<string,
FilterOption[]>): void { console.log('Filters applied:', filters); }
```

```
simpleFilterGroups = [ { id: 'simple', title: 'Quick Filter', options: [ { id:
'option1', label: 'Option 1', value: 'opt1' }, { id: 'option2', label: 'Option 2', value: 'opt2' },
{ id: 'option3', label: 'Option 3', value: 'opt3' }, ], }, ]; onFilterChange(filters: Record<string,
FilterOption[]>): void { console.log('Filter changed:', filters); } onApplyFilters(filters: Record<string,
FilterOption[]>): void { console.log('Filters applied:', filters); }
```

Features

Selection Modes

- Multi-Selection: Default mode with checkbox-based selection
- Single-Selection: Radio-like behavior with auto-close
- Group-Level Control: Individual groups can override selection behavior
- Mixed Modes: Support for different selection types per group

User Experience

- Visual Feedback: Active state indicators and selection badges
- Keyboard Navigation: Full keyboard support for accessibility
- Responsive Design: Adapts to different screen sizes
- Smooth Animations: CSS transitions for panel open/close
- State Persistence: Maintains selection state during interactions

Filter Management

- Grouped Organization: Logical grouping of related filter options
- Clear All: Bulk clear functionality for all filters
- Apply Control: Optional apply button for controlled submission

- Active Count: Real-time display of active filter count
- Position Flexibility: Left or right-aligned panels

API Reference

Inputs

Property	Type	Default	Description
size	FilterSize	'md'	Size variant (sm, md, lg, xlg)
title	string	'Filter'	Title displayed on the filter button
filterGroups	FilterGroup[]	[]	Array of filter groups with options
showClearAll	boolean	true	Whether to show clear all button
showApplyButton	boolean	false	Whether to show apply button
isOpen	boolean	false	Whether the filter panel is open
position	'left' 'right'	'left'	Position of the filter panel
maxHeight	string	'400px'	Maximum height of the filter panel
width	string	'auto'	Width of the filter panel
disabled	boolean	false	Whether the filter is disabled
class	string	''	Additional CSS classes
singleSelection	boolean	false	Enable single-selection mode
showBadge	boolean	true	Whether to show active filter count badge
size			
FilterSize			
'md'			
title			
string			
'Filter'			
filterGroups			
FilterGroup[]			
[]			
showClearAll			
boolean			
true			
showApplyButton			
boolean			
false			
isOpen			
boolean			
false			

position
'left' 'right'
'left'
maxHeight
string
'400px'
width
string
'auto'
disabled
boolean
false
class
string
' '
singleSelection
boolean
false
showBadge
boolean
true

Outputs

Event	Type	Description
filterChange	EventEmitter<{ [groupId: string]: FilterOption[] }>	Emitted when filters change (multi-select)
clearAll	EventEmitter	Emitted when clear all is clicked
apply	EventEmitter<{ [groupId: string]: FilterOption[] }>	Emitted when apply button is clicked
toggleFilter	EventEmitter	Emitted when filter panel is toggled
singleSelectionChange	EventEmitter<{ [groupId: string]: FilterOption null }>	Emitted when selection changes (single-select)
filterChange		
EventEmitter<{ [groupId: string]: FilterOption[] }>		

```
clearAll
```

```
EventEmitter<void>
```

```
apply
```

```
EventEmitter<{ [groupId: string]: FilterOption[] }>
```

```
toggleFilter
```

```
EventEmitter<boolean>
```

```
singleSelectionChange
```

```
EventEmitter<{ [groupId: string]: FilterOption | null }>
```

Methods

Method	Parameters	Return	Description
toggleFilterPanel()		None	void Toggle the filter panel open/close
onOptionChange()	groupId: string, option: FilterOption, isChecked: boolean	void	Handle option selection change
onSingleOptionClick()	groupId: string, option: FilterOption	void	Handle single-selection option click
clearAllFilters()		None	void Clear all selected filters
applyFilters()		None	void Apply current filter selection
getActiveFiltersCount()		None	number Get count of active filters
getSizeClasses()		None	string Get CSS classes for current size
getCheckboxSize()		None	'sm' 'md' 'lg' Get appropriate checkbox size for current size
getIconSize()		None	number Get appropriate icon size for current size
isOptionSelected()	groupId: string, option: FilterOption	boolean	Check if option is selected

```
toggleFilterPanel()
```

```
void
```

```
onOptionChange()
```

```
groupId: string, option: FilterOption, isChecked: boolean
```

```
void
```

```
onSingleOptionClick()
```

```
groupId: string, option: FilterOption
```

```
void
```

```
clearAllFilters()
```

```
void
```

```
applyFilters()
```

```
void
```



```
getActiveFiltersCount()
```

```
number
```

```
getSizeClasses()
```

```
string
```

```
getCheckboxSize()
```

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

```
getIconSize()
```

```
number
```

```
isOptionSelected()
```

```
groupId: string, option: FilterOption
```

```
boolean
```

Properties

Property	Type	Description
selectedFilters	{ [groupId: string]: FilterOption[] }	Current multi-selection state (private)
singleSelectedFilters	{ [groupId: string]: FilterOption null }	Current single-selection state (private)

```
selectedFilters
```

```
{ [groupId: string]: FilterOption[] }
```

```
singleSelectedFilters
```

```
{ [groupId: string]: FilterOption | null }
```

Interfaces

FilterOption

```
interface FilterOption { id: string | number; label: string; value: any; selected?: boolean;}
```

```
interface FilterOption { id: string | number; label: string; value: any; selected?: boolean;}
```

FilterGroup

```
interface FilterGroup { id: string; title: string; options: FilterOption[]; multiSelect?: boolean;}
```

```
interface FilterGroup { id: string; title: string; options: FilterOption[]; multiSelect?: boolean;}
```

FilterSize

```
type FilterSize = "sm" | "md" | "lg" | "xlg";
```

```
type FilterSize = "sm" | "md" | "lg" | "xlg";
```

Design Tokens & Theming

AAVA Play Filter uses semantic design tokens for all surfaces, spacing, radius, and motion. The component exposes scoped override tokens for fine-tuning appearance while maintaining design system consistency.

Available Design Tokens for Filter

Token	Purpose	Default Value
--filter-background-primary	Primary background color	Theme-based
--filter-background-hover	Hover background color	Theme-based
--filter-border	Border style	Theme-based
--filter-border-hover	Hover border color	Theme-based
--filter-border-focus	Focus border color	Theme-based
--filter-border-radius	Border radius	Theme-based
--filter-text-color	Text color	Theme-based
--filter-text-active	Active text color	Theme-based
--filter-disabled-opacity	Disabled state opacity	Theme-based

--filter-background-primary

--filter-background-hover

--filter-border

--filter-border-hover

--filter-border-focus

--filter-border-radius

--filter-text-color

--filter-text-active

--filter-disabled-opacity

Token	Purpose	Default Value
--filter-badge-background	Badge background color	Theme-based
--filter-badge-text	Badge text color	Theme-based
--filter-badge-border-radius	Badge border radius	Theme-based

--filter-badge-background

--filter-badge-text

--filter-badge-border-radius

Token	Purpose	Default Value
--filter-panel-background	Panel background color	Theme-based
--filter-panel-border	Panel border style	Theme-based
--filter-panel-shadow	Panel shadow	Theme-based
--filter-header-background	Header background color	Theme-based
--filter-header-border	Header border style	Theme-based
--filter-header-padding	Header padding	Theme-based

--filter-panel-background

```
--filter-panel-border
```

```
--filter-panel-shadow
```

```
--filter-header-background
```

```
--filter-header-border
```

```
--filter-header-padding
```

Token Override Example

```
/* Custom filter theming */.my-custom-filter { --filter-background-primary: #f8fafc; --filter-border: 1px solid #e2e8f0; --filter-border-radius: 8px; --filter-panel-shadow: 0 20px 25px -5px rgba(0, 0, 0, 0.1);}.my-compact-filter { --filter-header-padding: 12px 16px; --filter-badge-border-radius: 12px;}
```

```
/* Custom filter theming */.my-custom-filter { --filter-background-primary: #f8fafc; --filter-border: 1px solid #e2e8f0; --filter-border-radius: 8px; --filter-panel-shadow: 0 20px 25px -5px rgba(0, 0, 0, 0.1);}.my-compact-filter { --filter-header-padding: 12px 16px; --filter-badge-border-radius: 12px;}
```

Best Practices

Design Guidelines

- Logical Grouping: Organize filters into meaningful, related groups
- Clear Labels: Use descriptive, concise labels for filter options
- Consistent Sizing: Choose appropriate size variants for your interface context
- Positioning: Consider layout constraints when choosing left/right positioning
- Badge Usage: Show active filter count for better user awareness

Accessibility

- Keyboard Navigation: Ensure full keyboard support for all interactions
- Screen Reader Support: Provide clear labels and state announcements
- Focus Management: Proper focus handling when panel opens/closes
- Color Contrast: Maintain sufficient contrast for all text and interactive elements
- ARIA Labels: Use appropriate ARIA attributes for filter groups and options

Performance

- OnPush Strategy: Component uses OnPush change detection for optimal performance
- Efficient Rendering: Minimal re-renders during filter state changes
- Memory Management: Proper cleanup of event listeners and references
- Large Datasets: Consider pagination or virtualization for very large filter groups

User Experience

- Selection Modes: Choose between single and multi-selection based on use case
- Auto-close: Use auto-close for single-selection to streamline workflow
- Apply Button: Show apply button when immediate application isn't desired
- Clear All: Always provide clear all functionality for better usability
- Visual Feedback: Clear indication of active filters and selection states

Integration

- State Management: Integrate with your application's state management system
- Event Handling: Use the comprehensive event system for all filter interactions
- Form Integration: Coordinate with form validation and submission logic
- Data Binding: Properly bind filter data to your data source
- Responsive Design: Ensure filter works well on mobile and desktop devices

Responsive Behavior

Mobile Adaptations

The filter component automatically adapts to mobile screens:

- Touch Optimization: Optimized touch targets for mobile interaction
- Responsive Sizing: Appropriate sizing for mobile viewports
- Mobile Positioning: Smart positioning to avoid viewport edges
- Touch Gestures: Support for touch-based interactions

Breakpoint Behavior

- Desktop (>768px): Full filter interface with all features
- Mobile (\leq 768px): Compact layout with optimized spacing
- Panel Sizing: Responsive panel width and height
- Icon Sizing: Appropriate icon sizes for different screens

Content Considerations

- Group Layout: Filter groups adapt to different screen widths
- Option Display: Options maintain readability on small screens
- Button Sizing: Adequate touch target sizes for mobile
- Text Scaling: Appropriate text sizes for different screen sizes