# Select Component

The Select component provides a dropdown menu for selecting one value from a list of options. Built on Radix UI's Select primitive, it supports various states, sizes, and grouping while maintaining accessibility.

# **Import**

```
import {
   Select,
   SelectGroup,
   SelectValue,
   SelectTrigger,
   SelectContent,
   SelectLabel,
   SelectItem,
   SelectSeparator,
} from "@/components/ui/select"
```

## **API Reference**

## **Props**

## **Select**

```
    value?: string - Controlled value
    defaultValue?: string - Default value
    onValueChange?: (value: string) => void - Value change handler
    disabled?: boolean - Disabled state
```

## SelectTrigger

```
    className?: string - Additional CSS classes
    children: React.ReactNode - Trigger content
```

### **SelectContent**

```
    position?: "popper" | "item-aligned" - Content position strategy
    className?: string - Additional CSS classes
```

### SelectItem

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```
value: string - Item value
disabled?: boolean - Disabled state
className?: string - Additional CSS classes
```

## Styling

## **Base Styles**

```
.select-trigger {
    height: var(--select-trigger-height);
    padding: var(--space-2) var(--space-3);
    background-color: var(--color-surface);
    border: 1px solid var(--color-border);
    border-radius: var(--radius-md);
    color: var(--color-text-primary);
    transition: var(--select-transition);
}

.select-content {
    background-color: var(--color-surface);
    border: 1px solid var(--color-border);
    border-radius: var(--radius-md);
    box-shadow: var(--shadow-md);
}
```

## **States**

#### **Basic States**

```
// Default
<Select>
  <SelectTrigger>
    <SelectValue placeholder="Select option" />
  </SelectTrigger>
  <SelectContent>
    <SelectItem value="option1">Option 1</SelectItem>
  </SelectContent>
</Select>
// Disabled
<Select disabled>
  <SelectTrigger>
    <SelectValue placeholder="Disabled" />
  </SelectTrigger>
</Select>
// Error
<Select>
  <SelectTrigger className="select-error">
    <SelectValue placeholder="Error state" />
  </SelectTrigger>
</Select>
```

# **Examples**

#### **Basic Select**

## With Groups

```
<Select>
  <SelectTrigger>
    <SelectValue placeholder="Select a fruit" />
  </SelectTrigger>
  <SelectContent>
    <SelectGroup>
      <SelectLabel>Fruits</SelectLabel>
      <SelectItem value="apple">Apple/SelectItem>
      <SelectItem value="banana">Banana/SelectItem>
    </SelectGroup>
    <SelectSeparator />
    <SelectGroup>
      <SelectLabel>Vegetables</SelectLabel>
      <SelectItem value="carrot">Carrot</SelectItem>
      <SelectItem value="potato">Potato/SelectItem>
    </SelectGroup>
  </SelectContent>
</Select>
```

## **Animations**

## **Animation Tokens**

```
:root {
    --select-transition: all var(--duration-fast) var(--ease-out);
}
.select-content-enter {
```

```
animation: select-content-in var(--duration-normal) var(--ease-out);
}

@keyframes select-content-in {
    from {
        opacity: 0;
        transform: translateY(-4px);
    }
    to {
        opacity: 1;
        transform: translateY(0);
    }
}
```

# Accessibility

## **Keyboard Navigation**

- Space/Enter: Open/close select menu
- Up/Down: Navigate through options
- Home/End: Jump to first/last option
- Escape: Close select menu
- Tab: Move focus to next element

## **ARIA Support**

# Integration

## With Forms

```
import { useForm, Controller } from "react-hook-form"

function SelectForm() {
  const form = useForm({
   defaultValues: {
    theme: "",
```

```
},
 })
 return (
   <form onSubmit={form.handleSubmit(onSubmit)}>
      <Controller
        control={form.control}
        name="theme"
        render=\{(\{ field \}) => (
          <Select
            onValueChange={field.onChange}
            defaultValue={field.value}
            <SelectTrigger>
              <SelectValue placeholder="Select theme" />
            </SelectTrigger>
            <SelectContent>
              <SelectItem value="light">Light/SelectItem>
              <SelectItem value="dark">Dark</SelectItem>
            </SelectContent>
          </Select>
        )}
      />
   </form>
 )
}
```

# **Design Tokens**

```
:root {
 /* Select specific tokens */
 --select-trigger-height: 2.5rem;
 --select-content-max-height: 24rem;
 --select-item-height: 2rem;
 /* Content dimensions */
 --select-min-width: 8rem;
 --select-padding: var(--space-1);
 /* Indicators */
 --select-indicator-size: 1rem;
 --select-check-size: 0.875rem;
 /* Transitions */
 --select-transition: all var(--duration-fast) var(--ease-out);
 /* Z-index */
  --select-z-index: var(--z-dropdown);
}
```

# Troubleshooting

### Common Issues

### 1. Select not opening

```
// Solution: Ensure trigger is properly connected
<Select>
  <SelectTrigger /> {/* Must be direct child of Select */}
  <SelectContent />
  </Select>
```

### 2. Value not updating

## 3. Positioning issues

```
// Solution: Use position prop
<SelectContent position="popper" sideOffset={4}>
    {/* Content */}
</SelectContent>
```

## **Best Practices**

### 1. Label Usage

- o Always provide clear labels
- Use descriptive placeholder text
- o Include helper text when needed

### 2. Grouping

- Group related options together
- Use separators for clarity
- o Provide group labels

### 3. Accessibility

- o Include proper ARIA labels
- Support keyboard navigation
- o Maintain focus management

#### 4. Performance

- Virtualize large option lists
- o Implement proper loading states
- o Handle async data loading

## **Variants**

### Size Variants

## With Helper Text

## With Loading State

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```
<Select disabled>
  <SelectTrigger className="select-loading">
        <SelectValue placeholder="Loading..." />
        </SelectTrigger>
  </Select>
```