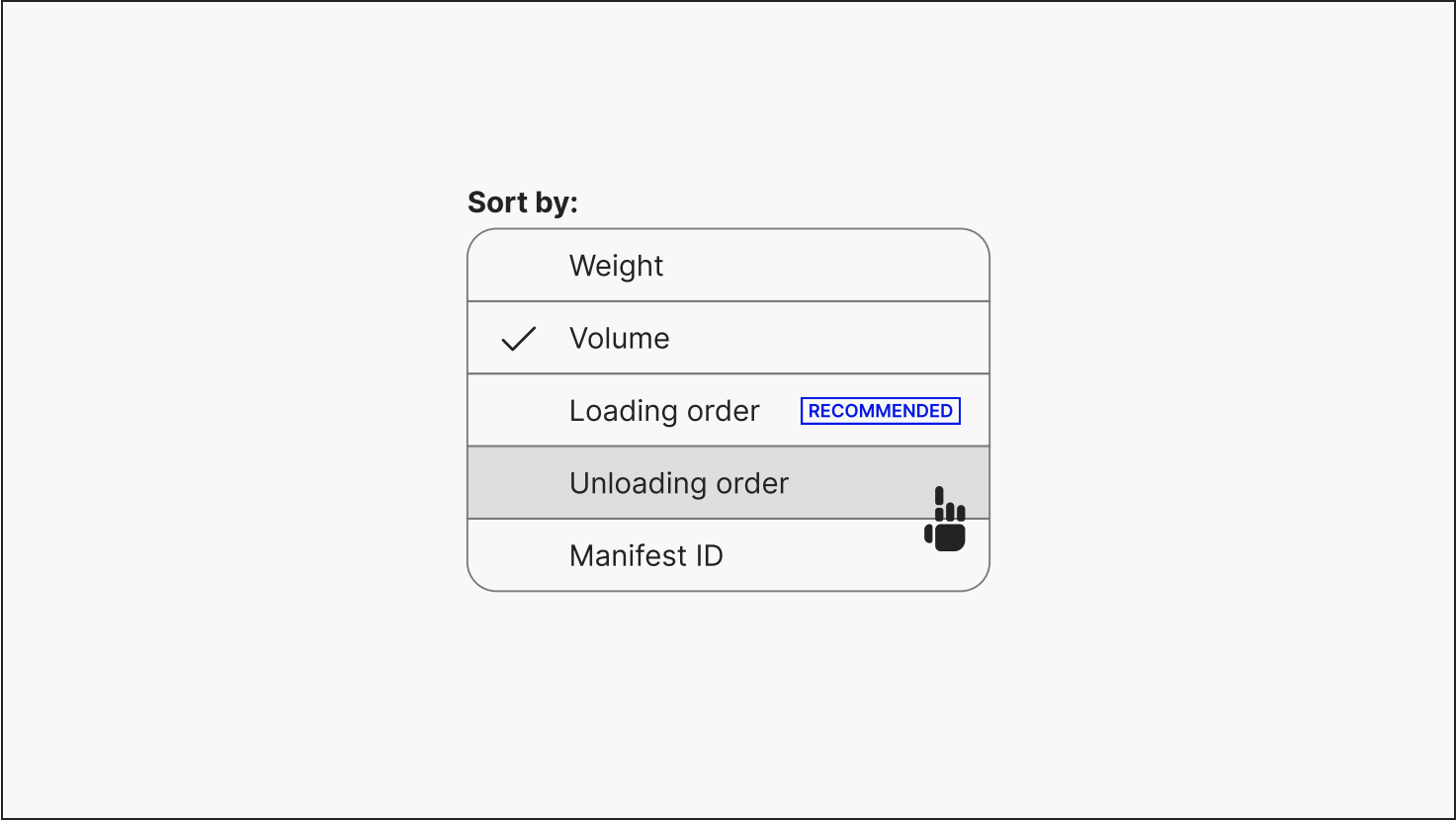


# **Taxonomy for Component States**

# Overview

States are visual feedback for a component’s temporary condition. Users rely on their cues to understand and manipulate the UI. Well-designed states support accessibility, improve usability, and contribute to brand expression and delight.



Select menu demonstrating which option is currently selected and which option is currently hovered.

This document is a quick reference to inventory and label common states, in order to:

- Discuss within a design team and its technical partners
- Scope the work
- Design in a consistent, complete and effective manner
- Structure Figma assets

# Methodology

## Scope

States are a broad notion. This document covers user-triggered component's states.

This excludes application states, that are driven by data status, business logic, system services or back-end calls. It also excludes states that could be displayed on components, but aren't in response to direct user manipulation.

For example, the "Unread" indicator of a "Messages" tab isn't in scope. While the "Unread" status does exist, it characterizes a data attribute (read vs unread) rather than a component feedback (idle vs pressed down). Likewise, the "Incomplete", "In Progress" or "Complete" statuses of a progress stepper are an application state rather than a component state. They are changed not by interacting directly with the progress step control, but by performing actions within the panel associated to it. Finally, the "Recommended" badge above is another example.

Component states are also different from components properties such as size, emphasis, theme etc. Those properties are set at design time and don't change at runtime.

User-triggered states are transient: they cycle in quick succession. Thus a good rule of thumb to tell them apart from other attributes is whether they reset on page load. If yes, they are likely components' states, as covered in this document.

## Conventions

- States are organized into state categories
- Each state name is unique
- Within a category, states are sorted by frequency of use; the first one being the default value

## Sources

- [All the user-facing states](#)
- [W3C](#)
- Vendors component libraries and guidelines

# Taxonomy

### Pointer States

Idle , Hovered , Pressed Down , Disabled , Loading

This category is colloquially called "state", although it's only a subset of them.

"Pressed down" is preferred to "Active", as per WCAG.

### Selection States

Unselected , Selected , Indeterminate

### Focus States

Unfocused , Focused

### Input States

Empty , In progress , Filled

Note that “Empty” means “empty of user input”, not “empty of any content”. There may still be a placeholder, as a component property.

### Validation States

No validation , Instructions , Valid , Invalid

Note that “Instructions” means “explanations in reaction to user input”, not persistent help text. There may still be persistent help text, independently from instructions, as a component property.

### Others

The states listed above are the most common. Further states should be considered on a case-by-case basis, such as “visited” for links or “dragged” for draggable elements.

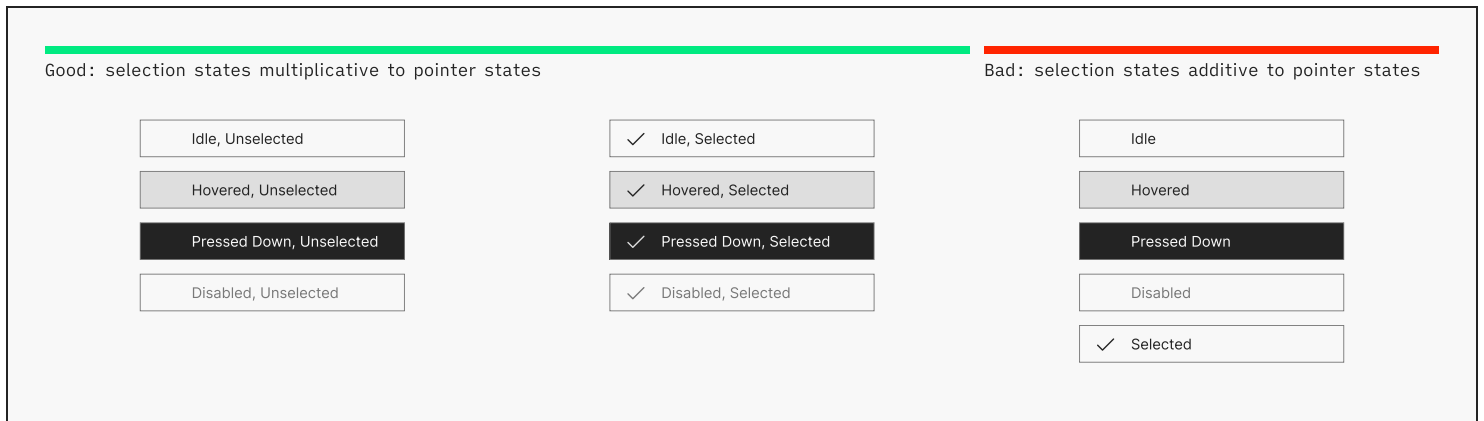
## How-To

Here’s how to use the provided taxonomy to support design activities.

### Scope

For each component, assess which states from the taxonomy do apply. Not all components have all states: for example, a button has no notion of being “selected” or not. A radio button can be selected, but can’t have an “indeterminate” state.

State categories are multiplicative rather than additive. A select menu item gets “Pointer Feedback” (4 applicable states) and “Selection feedback” (2 applicable states). That’s  $4 \times 2 = 8$  states, not  $4 + 2 = 6$  states.



Comparison of multiplicative and additive state categories for select menu items.

Note that that this step isn’t about “adding” states. Rather, it is about making sure existing states are accounted for, so that design decisions can be made with proper context.

## Design

Just because a state exists doesn’t mean it needs a unique design. Some states can be very similar or downright identical in appearance.

States don’t have to be encoded with color only: icons, text, position shift etc. can also be very effective.

Finally, consider the whole component when styling states, like text labels associated to atomic controls.

## Figma

Name properties or variants with the state categories and states from the taxonomy. This improves consistency for the builder and for the user, in turn improving maintainability and understandability. It is ok to omit the word “state” from category names.

Expose states as variants rather than booleans.

Good structure, complete and consistent across components

**Button**

Pointer State

Idle

▼

Focus State

Unfocused

▼

**Select Item**

Pointer State

Idle

▼

Selection State

Unselected

▼

Focus State

Unfocused

▼

**Tab Item**

Pointer State

Idle

▼

Selection State

Unselected

▼

Focus State

Unfocused

▼

Bad structure, incomplete and inconsistent across components

**Button**

State

Default

▼

**Select Item**

Checked

False

▼

State

Default

▼

**Tab Item**

State

Default

▼

Focus

Comparison of well-structured and badly-structured component properties in Figma.

# Recap

**Pointer States:** Idle , Hovered , Pressed Down , Disabled , Loading

**Selection States:** Unselected , Selected , Indeterminate

**Focus States:** Unfocused , Focused

**Input States:** Empty , In progress , Filled

**Validation States:** No validation , Instructions , Valid , Invalid

**Others:** Visited , Dragged , etc on a case-by-case basis