

# Creating Animations with Vue

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## Introduction to Vue Animations



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# Overview



**Understanding Vue Transitions**

**Ways to Implement Transitions**

**Transition Component**

**Transition Structure**

**Project Overview**

**Examples of Transitions**

**Custom Class Names**



# Understanding Vue Transitions

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Most people think transitions  
are just decorations.



# Well Designed Transitions



**Highlight important information**

**Capture and direct your user's attention**

**Suggest a natural flow for your app**

**Provide guidance to users**

**Improve the quality of your app**

**Strengthen your brand**





# UX Improvements

Transitions help improve the user experience, conversion, and retention rates.



Win-win for your organization,  
and most importantly,  
your users.

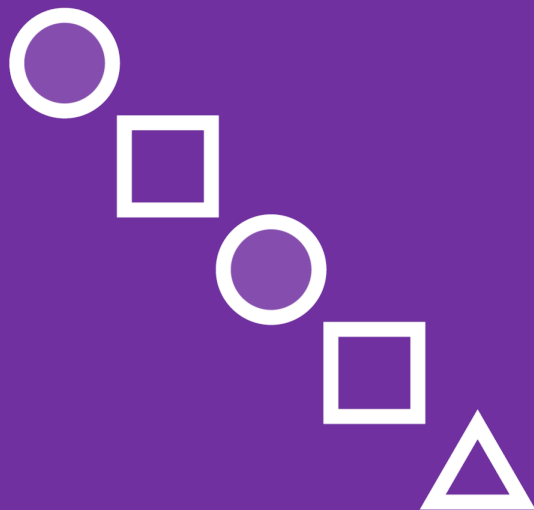


# Ways to Implement Transitions

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## Vue offers

Different ways to implement transitions, to accommodate a broad range of developers.



# Transition Implementation Options

## CSS Transitions

Animation styling

## JavaScript Hooks

Requires DOM editing

## Third Party

External CSS/JS



# Best Transition Implementation Fit



**Animation styling - HTML & CSS experience**

**React, Angular, JS – editing the DOM**

**Knowledge of a specific library - external**

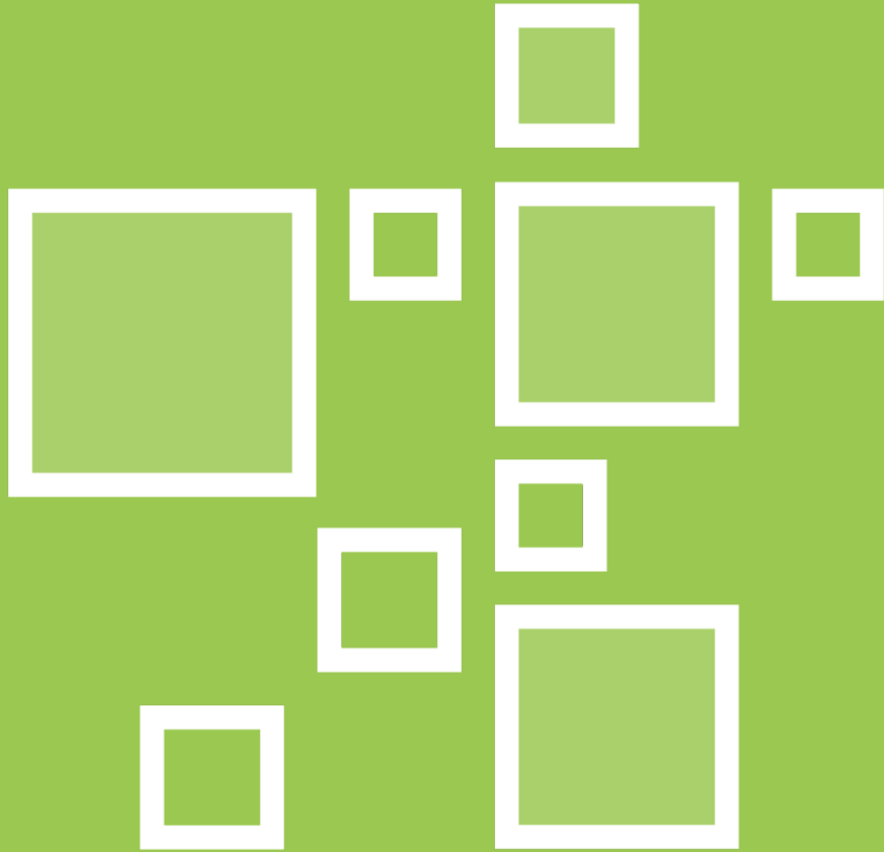
Choose the option you feel most comfortable with, and can most easily implement.



# Transition Component

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# Sets Hooks & Classes

To your changing components so you can style them throughout different stages of the transition.



```
<transition>
```

```
<p>Hello world!</p>
```

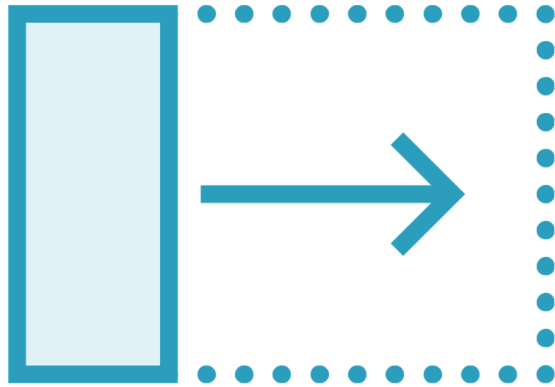
```
</transition>
```

## Transition Component

**The transition component wraps the element we want to animate.**

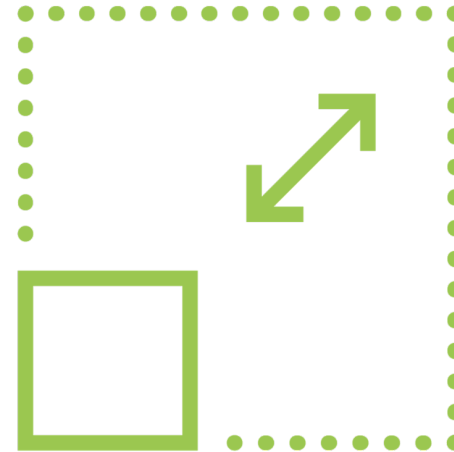
**The transition element applies CSS classes to the element it wraps.**

# Types of Transition Classes



**Entering**

**Transition classes for entering an animation**



**Leaving**

**Transition classes for leaving an animation**



v-enter-from

◀ **Starting state for enter. Added before the element is inserted.**

v-enter-active

◀ **Active state for enter. Applied during the entire entering phase. Added before the element is inserted.**

v-enter-to

◀ **Ending state for enter. Added one frame after the element is inserted.**

v-leave-from

◀ **Starting state for leave. Added immediately when a leaving transition is triggered.**

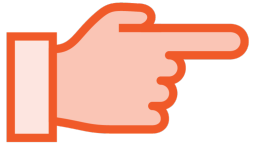
v-leave-active

◀ **Active state for leave. Applied during the entire leaving phase.**

v-leave-to

◀ **Ending state for leave. Added one frame after a leaving transition is triggered.**

# The v- Prefix



The **v-** prefix is the default when using a **<transition>** with no name



The **v-** prefix is not the default when using a **<transition>** with a name, such as **<transition name="ani">**



Then the **v-enter-from** class would instead be **ani-enter-from**



# Transition Structure

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To understand transitions, we  
need to understand opacity.

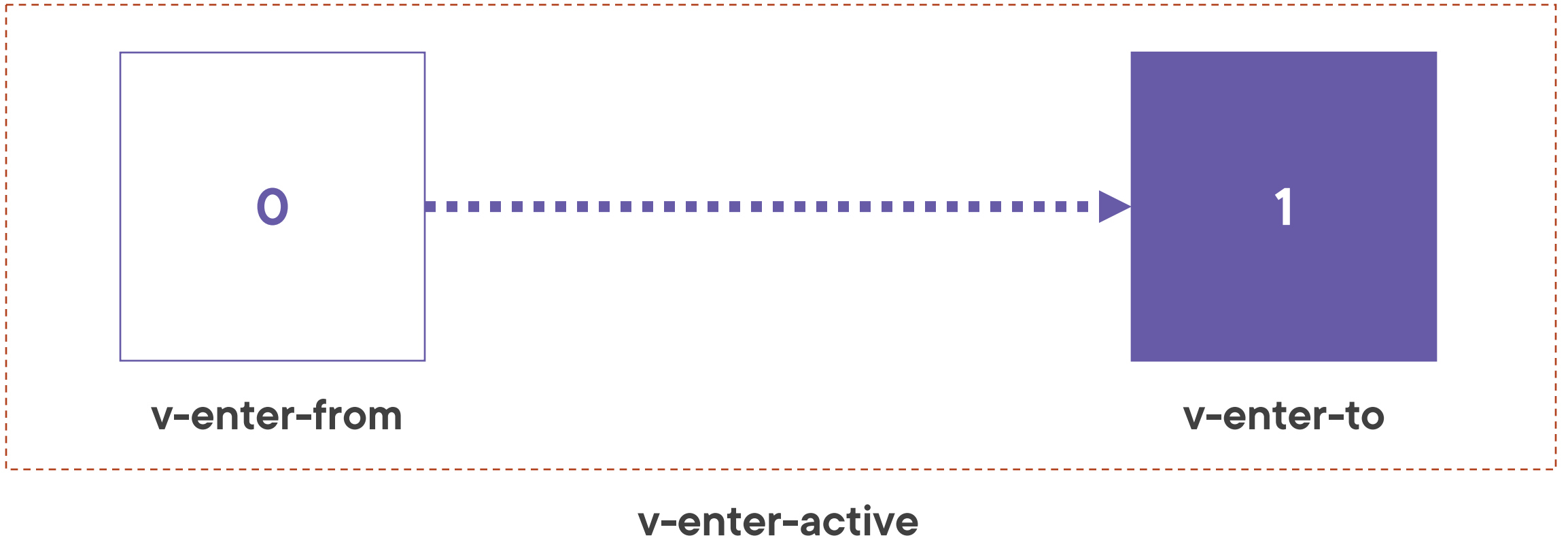


# Opacity

**Opacity is the degree to which content behind an element is hidden, and is the opposite of transparency.**



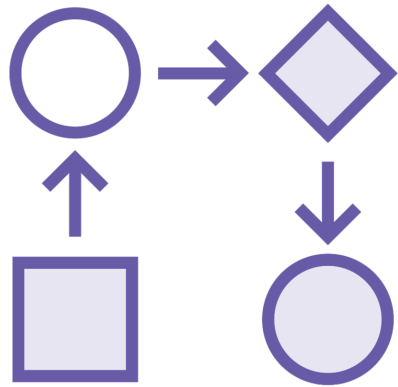
# Opacity - Entering a Transition



# Opacity - Leaving a Transition

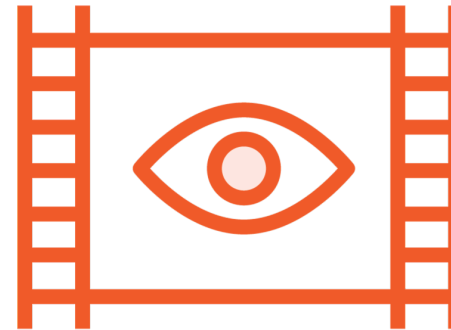


# CSS Transitions Types



## CSS Transitions

The most common transition types uses CSS transitions



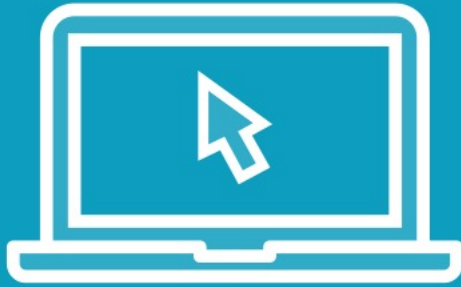
## CSS Animations

The v-enter-from is removed on an **animationend** event





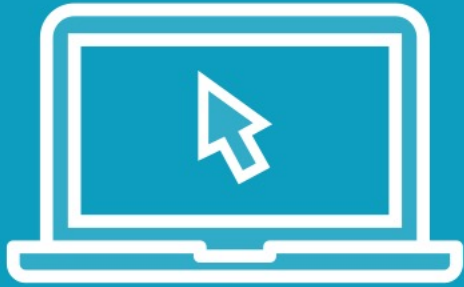
# Demo



## Demo – Project Overview



# Demo



## Demo – Transitions



# Custom Class Names

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# Custom Transitions Classes



**enter-from-class**

**enter-active-class**

**enter-to-class**

**leave-from-class**

**leave-active-class**

**leave-to-class**



Alternatively, there are also JavaScript hooks emitted by the transition element.



# Available JavaScript Hooks



**before-enter / before-leave**

**enter / leave**

**after-enter / after-leave**

**enter-cancelled / leave-cancelled**

```
<transition @before-enter='beforeEnter'>
  <p>Hello world!</p>
</transition>
```

## Declaring Event Handlers

**This is how we can declare a JavaScript event handler.**

**Then, we can handle the event in the JavaScript code.**

// done is an optional callback method

```
beforeEnter(e1, done) {  
    done()  
}
```

## Transition Event Handler

**The first parameter is the element that is being animated.**

**The second parameter is an optional callback method.**



# Summary



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