There are two advanced concepts you also should have heard about:

- Prop Fallthrough
- Binding All Props on a Components

## **Prop Fallthrough**

You can set props (and listen to events) on a component which you haven't registered inside of that component.

For example:

## BaseButton.vue

This button component (which might exist to set up a button with some default styling) has no special props that would be registered.

Yet, you can use it like this:

<base-button type="submit" @click="doSomething">Click me</base-button>

Neither the type prop nor a custom click event are defined or used in the BaseButton component.

Yet, this code would work.

Because Vue has built-in support for prop (and event) "fallthrough".

Props and events added on a custom component tag **automatically fall through** to the **root component** in the template of that component. In the above example, type and @click get added to the <button> in the BaseButton component.

You can get access to these fallthrough props on a built-in \$attrs property (e.g. this.\$attrs).

This can be handy to build "utility" or pure presentational components where you don't want to define all props and events individually.

You'll see this in action the component course project ("Learning Resources App") later.

You can learn more about this behavior here: <u>https://v3.vuejs.org/guide/component-attrs.html</u>

## Binding all Props

There is another built-in feature/ behavior related to props.

If you have this component:

## UserData.vue

You could use it like this:

But if you have an object which holds the props you want to set as properties, you can also **shorten the code a bit**:

This is **purely optional** but it's a little convenience feature that could be helpful.