Components.

1. Create a New Component

Start by creating a new component file in your src/components directory. For example, create a file called HelloWorld.vue.

```
<!-- src/components/HelloWorld.vue -->
<template>
   <div class="hello">
    <h1>{{ msg }}</h1>
    </div>
  </template>
  <script>
 export default {
   name: 'HelloWorld',
   props: {
    msg: String
 </script>
 <style scoped>
  1 reference
  .hello {
   font-family: Avenir, Helvetica, Arial, sans-serif;
   text-align: center;
   color: □ □ #2c3e50;
   margin-top: 60px;
  </style>
```

2. Register the Component

In the parent component where you want to use this new component, you need to import and register it. This is typically done in the App.vue file or any other parent component.

3. Use the Component in the Template

Once registered, you can use the custom component as a custom HTML tag in the parent component's template.

4. Passing Props

Props are a way to pass data from a parent component to a child component. In the example above, msg is a prop being passed to the HelloWorld component.

5. Scoped Styles

In the HelloWorld.vue component, the <style scoped> tag ensures that the styles apply only to this component and do not leak out to other parts of the application.

6. Reusing Components

Once a component is created, you can reuse it in multiple places by importing and registering it in any parent component.

Example with Multiple Components

If you have multiple components, such as Header.vue and Footer.vue, you can import and use them similarly.

```
Copy code
<!-- src/components/Header.vue -->
<template>
 <header>
   <h1>Header Component</h1>
  </header>
</template>
<script>
export default {
 name: 'Header'
</script>
<!-- src/components/Footer.vue -->
<template>
  <footer>
   Footer Component
  </footer>
</template>
<script>
export default {
 name: 'Footer'
</script>
```

Then, use them in App.vue:

```
(T) Copy code
<!-- src/App.vue -->
<template>
 <div id="app">
   <Header />
   <HelloWorld msg="Welcome to Your Vue.js App"/>
 </div>
</template>
<script>
import Header from './components/Header.vue'
import HelloWorld from './components/HelloWorld.vue'
import Footer from './components/Footer.vue'
export default {
 name: 'App',
 components: {
   Header,
   HelloWorld,
    Footer
 }
</script>
```

Summary

- 1. Create a Component: Write a .vue file for your component.
- 2. **Register the Component**: Import and register the component in a parent component.
- Use the Component: Use the custom tag of your component in the parent component's template.
- 4. Pass Props: Send data to your components using props.
- 5. **Style Scoped**: Use scoped styles to keep component styles encapsulated.

By following these steps, you can effectively create and use components in Vue.js to build a modular and maintainable application.