

You

I am using vue 3, teach me how to use props data and emit data

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In Vue 3, passing data between components using props and emitting events is quite similar to Vue 2, but there are some syntax changes due to the Composition API. Let's go through how to use props and emit events in Vue 3:

1.

Using Props:

Props are used to pass data from parent components to child components. Here's how you can define and use props in Vue 3:

In the parent component template:

```
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<template>
  <ChildComponent :message="parentMessage" />
</template>

<script>
import { defineComponent } from 'vue';
import ChildComponent from './ChildComponent.vue';

export default defineComponent({
  components: {
    ChildComponent,
  },
  data() {
    return {
      parentMessage: 'Hello from parent!',
    };
  },
});
</script>
```

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In the child component ('ChildComponent.vue'):

```
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<template>
  <div>{{ message }}</div>
</template>

<script>
import { defineComponent, PropType } from 'vue';

export default defineComponent({
  props: {
    message: {
      type: String,
      required: true,
    },
  },
});
</script>
```

In this example, the parent passes the `parentMessage` as a prop named `message` to the child component.

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2.

Emitting Events:

Events are used to communicate from child components to parent components. Here's how you can emit events in Vue 3:

In the child component:

```
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<template>
  <button @click="sendMessage">Send Message</button>
</template>

<script>
import { defineComponent } from 'vue';

export default defineComponent({
  methods: {
    sendMessage() {
      this.$emit('message-sent', 'Hello from child!');
    },
  },
});
</script>
```

In the parent component template:

```
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<template>
  <ChildComponent @message-sent="handleMessage" />
</template>

<script>
import { defineComponent } from 'vue';
import ChildComponent from './ChildComponent.vue';
```

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```
import { defineComponent } from 'vue';

export default defineComponent({
  components: {
    ChildComponent,
  },
  methods: {
    handleMessage(message) {
      console.log('Received message from child:', message);
    },
  },
});
</script>
```

In this example, when the button is clicked in the child component, it emits a 'message-sent' event with the message 'Hello from child!'. The parent component listens for this event and executes the 'handleMessage' method when it occurs.

These are the basic patterns for using props and emitting events in Vue 3. Make sure you import the necessary functions ('defineComponent', 'PropType', etc.) from Vue.

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