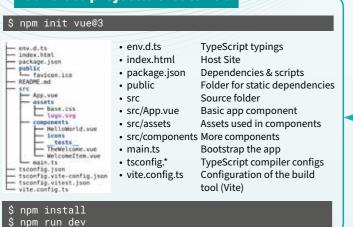


Minimal-App script type="text/javascript"> const AppComponent = { data() { return { message: "Hello Vue!" } } Selector }

Generate projects: Create Vue

Vue.createApp(AppComponent).mount('#app')



Vue:

Vue 3 Overview

Vue has a long history: After React but before Angular, Vue was spearheaded by Evan You. As a former co-developer on the Angular team, his goal was to create a highly flexible library for components in web applications.

Comparable to jQuery, components can be implemented in the simplest case. Components allow isolated content styling. Components allow applications to be composed from individual modules.

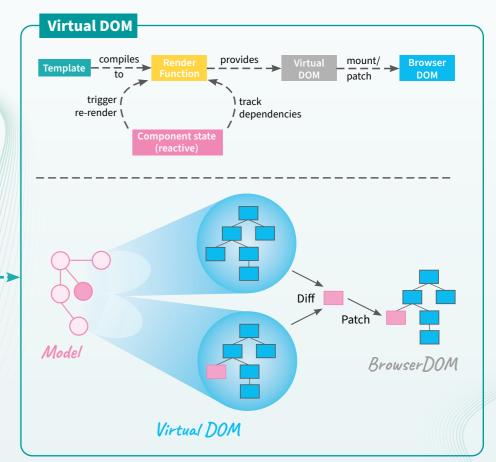
Vue has grown further in version 3 and is now a mature framework thanks to recommended extensions. With create-vue, a new project is quickly set up.

Even though Vue supports different styles for implementation, the single-file component together with TypeScript is the recommended variant for more extensive, professional applications.

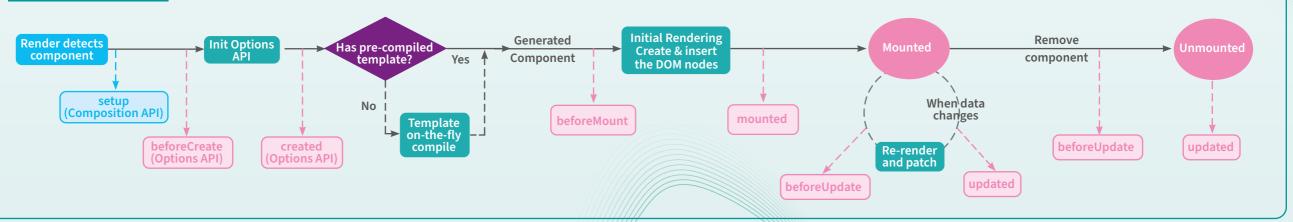
Thanks to Virtual DOM, Vue is extremely fast and lightweight. But at the same time, only actual updates reach the browser DOM.

Components are subject to a life cycle with extensive options to respond to condition changes.

Indicator of the Composition API Setup Script Area: Imports additional components Defines variables, props, emits, ... HTML template, has access to variables from the script Allows CSS style (also SCSS etc. configurable) scoped*: Styles only work in this component



Component lifecycle



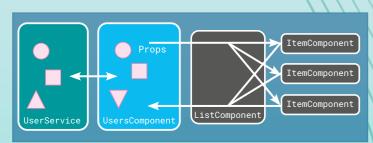
Conditional Rendering

Repeated rendering

```
  v-for="item in items" :key="item.id">
     {{ item }}
```

Connecting other components

```
<script setup lang="ts">
import FirstSample from './components/FirstSample.vue'
import SecondDemo from './components/SecondDemo.vue'
</script>
import names in the CamelCase
are used for referencing both in
the CamelCase and for snake-case
<first-sample></first-sample>
<SecondDemo />
</template>
Components can be self-closing
```



Design: Separation of domain and view components. Domain components transform the state appropriately for reusable view components that can be reused in other contexts.

About the author

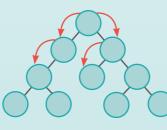


Karsten Sitterberg works as a freelance developer, trainer and consultant for web tech and Java. In his work, he is focusing on HTTP

APIs, TypeScript and Angular. Karsten has a Masters degree in Physics and is an Oracle-certified Java developer. As a columnist, he writes about current trends and backgrounds of topics relevant for both developers and srchitects. He is one of the co-founders of the Frontend-Freunde Meetup series in Münster, Germany.

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Property-Binding



Binding can be used to dynamically bind values to HTML attributes and to custom props. Bindings are marked with "v-bind" or ":".

Event-Handling



Functions can be stored as event handlers for both DOM and custom events. Events are marked with "v-on" or "@".

entwickler.de



const myTodos = ref(['Cook', 'Shop', 'Bake']);
const todosEmpty = computed(() => myTodos.value?.length <= 0);
</script>
Will be recalculated every time myTodos changes

Define custom props and emits

<script setup lang="ts">

Composables

Using the Composable in a component:

<script setup lang="ts">
 import { useMouse } from "@/util/mouse";
 const { x, y } = useMouse();
 </script>