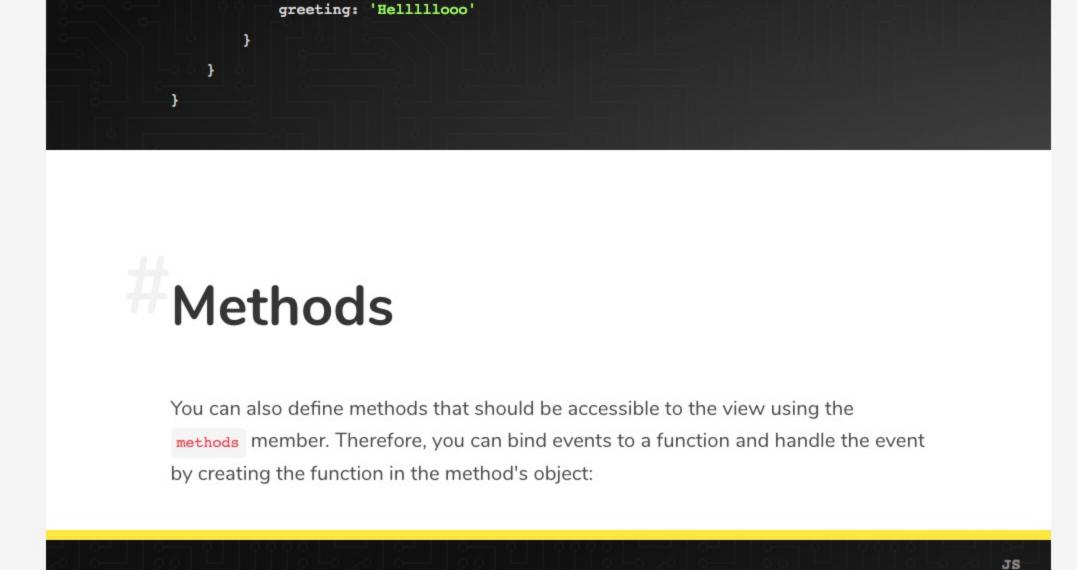
```
NEXT: TEMPLATE SYNTAX
                                                                                                                    Getting Started
                                                                                                                    1 Introduction
           Let's talk for a while about the Vue Instance and what it has to offer. Your app
                                                                                                                                                Free
                                                                                                                    2 Tools
           needs to instantiate Vue before anything can go on:
                                                                                                                    3 Our Task
                                                                                                                    4 Hello World
                                                                                                          JS
           new <u>Vue(/* Object argument */);</u>
                                                                                                                    Vue Basics
                                                                                                                    5 Vue CLI
                                                                                                                    6 Components and the Vue Instance Fre
           In the brand new app we created using the CLI, you can locate the instance in
            src/main.js:
                                                                                                                    7 Template Syntax
                                                                                                                    8 Conditional & List Rendering Free
                                                                                                          JS
                                                                                                                    9 Styles & Classes
           new Vue({
             el: '#app',
                                                                                                                    Routing
             router, // Ignore for now
                                                                                                                    10 Single Page Apps
             template: '<App/>',
             components: { App },
                                                                                                                    11 Creating Routes
           });
                                                                                                                    12 Route Outlets & Links
                                                                                                                    13 Nested & Dynamic Routes
           Let's briefly explain some of the properties of the object argument.
                                                                                                                    Forms
                                                                                                                    14 Two Way Binding (Reactivity) Free
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        Template
                                                                                                                    Vuex
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                                                                                                                    25 State Management
           The template property is where you define component HTML templates. It can be a
           custom component that we will create ourselves as seen in the example above or it
                                                                                                                    26 Getters
           can be traditional HTML:
                                                                                                                    27 Mutations
                                                                                                                    28 Actions
                                                                                                          JS
                                                                                                                    Using Store In Components
           new Vue({
             template: 'Helllllooo'
                                                                                                                    29 State and Actions on Components Fre
           });
                                                                                                                    30 LAB: Product List
                                                                                                                    31 LAB: Product Details
           The template is what is printed to the view when a component is rendered. We
                                                                                                                    32 LAB: Admin Features
           will talk more on template in the next section
                                                                                                                    33 LAB: Spinner, Cart & Strore Subscripti
           Any data that you intend to bind to your view must be defined and returned in the
           data function:
                                                                                                          JS
           new Vue({
             template: '{{greeting}}',
             data () {
               return {
                   greeting: 'Helllllooo'
```



<button v-on:click="incrementCounter">++</button>

The data function returns an object. Any property in the object can be bound to the

JS

JS

HTML

JS

HTML

HTML

JS

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view and also accessible via this. Other functions that are available in the Vue

instance object like data can access the data properties using this .

ES Alert: The data function might look weird, but it's just a shorthand for:

}

data: function() {

return {

new Vue({

template: `

<div>

</div>

{{counter}}

}

});

data() { return { counter }, methods: { incrementCounter() { this.counter++ })

We have a property counter bound to the view. The expectation is that when the

button is clicked, the counter should be incremented by 1. For that, we handle the

click event my invoking the incrementCounter method bound the view. This method

adds one to the counter property. Components Components are the building blocks for Vue. Components are characterized with template and logic with data flowing from the logic to the template and events emitted from the template to the logic. To simplify this a component has:

We used a click event earlier to pass data from the template to the Vue instance. The Vue Instance itself is a component with a template. Components are composable which means a component can house another component in it. This is

example:

new Vue({

el: '#app',

template:

<div>

For a component to house another, you need to define the child component in the parent's components object. Sounds twisted, yeah? Let's see an

known as the component hierarchy which we will discuss later.

• Vue Instance ---- DATA----> Template

• Template ----EVENT----> Vue Instance

const GreetingComponent = { template: `<h1>Hi, you!</h1>`,

<GreetingComponent/> </div> components: { GreetingComponent }, });

Components are simply objects. To add a child component to a parent component,

declare the child component by adding it to the components object:

```
JS
components: { GreetingComponent },
Then you can print the components HTML template in the view:
template: `
    <div>
       <GreetingComponent/>
    </div>
```

What makes a large app is composing lots and lots of components together. But

one component needs to be identified as the entry component. This is what Vue

The entry component must have an el property which points the DOM using a

query selector. The pointer tells Vue where the entry component should be

new Vue({ el: '#app', });

Mounting

looks for to bootstrap your app.

mounted:

<div id="app"></div>

instance method:

new <u>Vue({}).\$mount('#app')</u>

Single File Components

<template>

},

</script>

.products {

background: #F7F8FB;

padding: 30px 0;

<style>

<div>

V ProductList.vue ×

If the el is not provided, components can be manually mounted using the \$mount

```
<div class="products">
               </div>
             </div>
           </template>
ij.
           <script>
             export default {
               created () {
```

if (this.products.length ≡ €

this.\$store.dispatch('allPro)

```
Ln 9, Col 9 Spaces: 2 UTF-8 LF Vue.js 😁
For modularity sake, you can have your components' HTML, CSS and JavaScript
code live in a single file with a .vue file extension:
<!-- ./src/App.vue -->
<template>
  <div id="app">
    <img src="./assets/hello.png">
  </div>
</template>
<script>
export default {
  name: 'app',
};
</script>
<style>
#app {
  font-family: 'Avenir', Helvetica, Arial, sans-serif;
  text-align: center;
 color: #2c3e50;
 margin-top: 60px;
</style>
```

<!-- ./src/App.vue --> <template>

Single Files Components makes it easy to visualize a whole component in one file.

This cuts down the need to navigate files while trying to sync changes between a

With the Vue extension, which comes with VS Code, the .vue files get proper

By choice or brevity sake, you might want to split your CSS and JavaScript into

component template and its logic or event styles.

syntax highlighting.

<div id="app">

</div>

different files. Vue still allows that:

</template> <script src="./src/app.js"></script> <style src="./src/app.css"></style>

The Single File Component discussed above is an example of a local component. It's only available where it was created or when imported in a different context. Local components are plain JavaScript objects that are identical to the objects passed to a Vue instance. Therefore the data function, methods, lifecycle hooks,

Local vs. Global Components

Meanwhile, Vue allows you to create global components which are registered to the global context of your app and can be used anywhere without having to export/import the file it's contained in. Global components are created using Vue's static component method:

computed functions, component properties, etc. are all available.

Vue.component('product', { template: '<div class="card">...</div>' })

```
The component method takes two arguments. The component name and an object
that describes the component. Just like local components, this object is identical to
the object passed to a Vue instance.
```