

VUE WITH PINEGROW AND BEYOND



pinegrow

<http://pinegrow.com>



11ty



Vue Designer

<https://vuedesigner.com>

About this series (4 videos)

1. Progressive Enhancement of HTML with Petite-Vue



2. Progressive Hydration of Islands with 11ty in Static HTML



3. Progressive Enhancement of HTML with Standard-Vue



4. Progressive Hydration of Islands with Astro, Iles & Nuxt



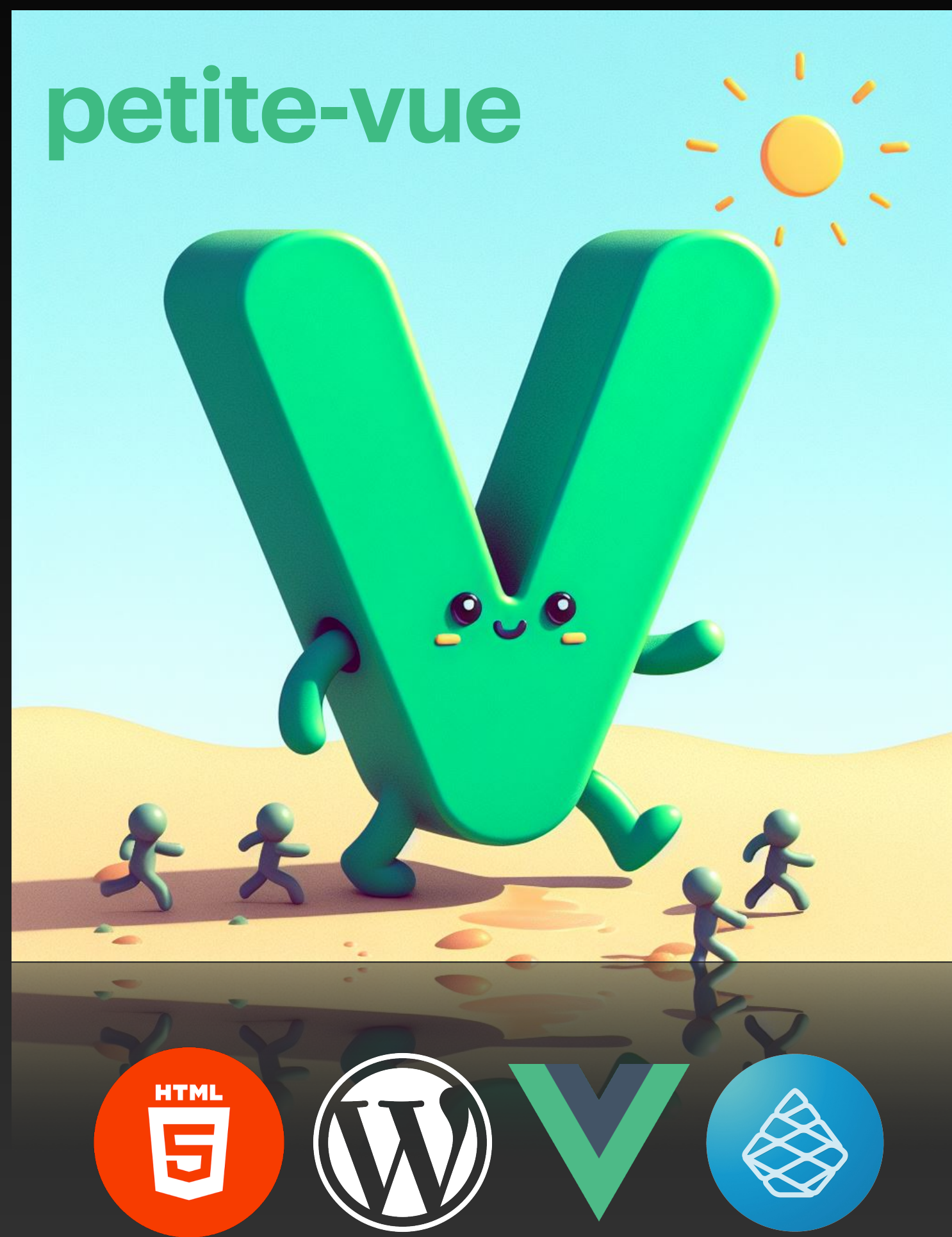
Pinegrow for HTML Projects

- Static HTML pages
- No build tools (for HTML)
- Refresh when working with Javascript



Vue Designer for Vue + Vite

- .vue components, app tree, state binding
- Vite-powered meta-frameworks
- HMR authoring experience



PROGRESSIVE ENHANCEMENT OF HTML WITH PETITE-VUE (1)



pinegrow

<http://pinegrow.com>

Frameworks Lite for Pinegrow

<https://github.com/TechAkayy/frameworks-lite-for-pinegrow> - free & open-source (MIT)

The screenshot shows the GitHub repository page for 'frameworks-lite-for-pinegrow' by user TechAkayy. The repository is public and has 0 stars, 0 forks, and 0 unwatchers. A notification settings modal is open, titled 'Custom', with the instruction 'Select events you want to be notified of in addition to participating and @mentions.' The modal lists several notification options: Issues, Pull requests, Releases (checked), Discussions (disabled for this repository), and Security alerts. Two pink arrows point to the 'Releases' checkbox and the 'Apply' button. The repository's file tree is visible in the background, showing folders like .vscode, screenshots, src, .gitattributes, and .gitignore.

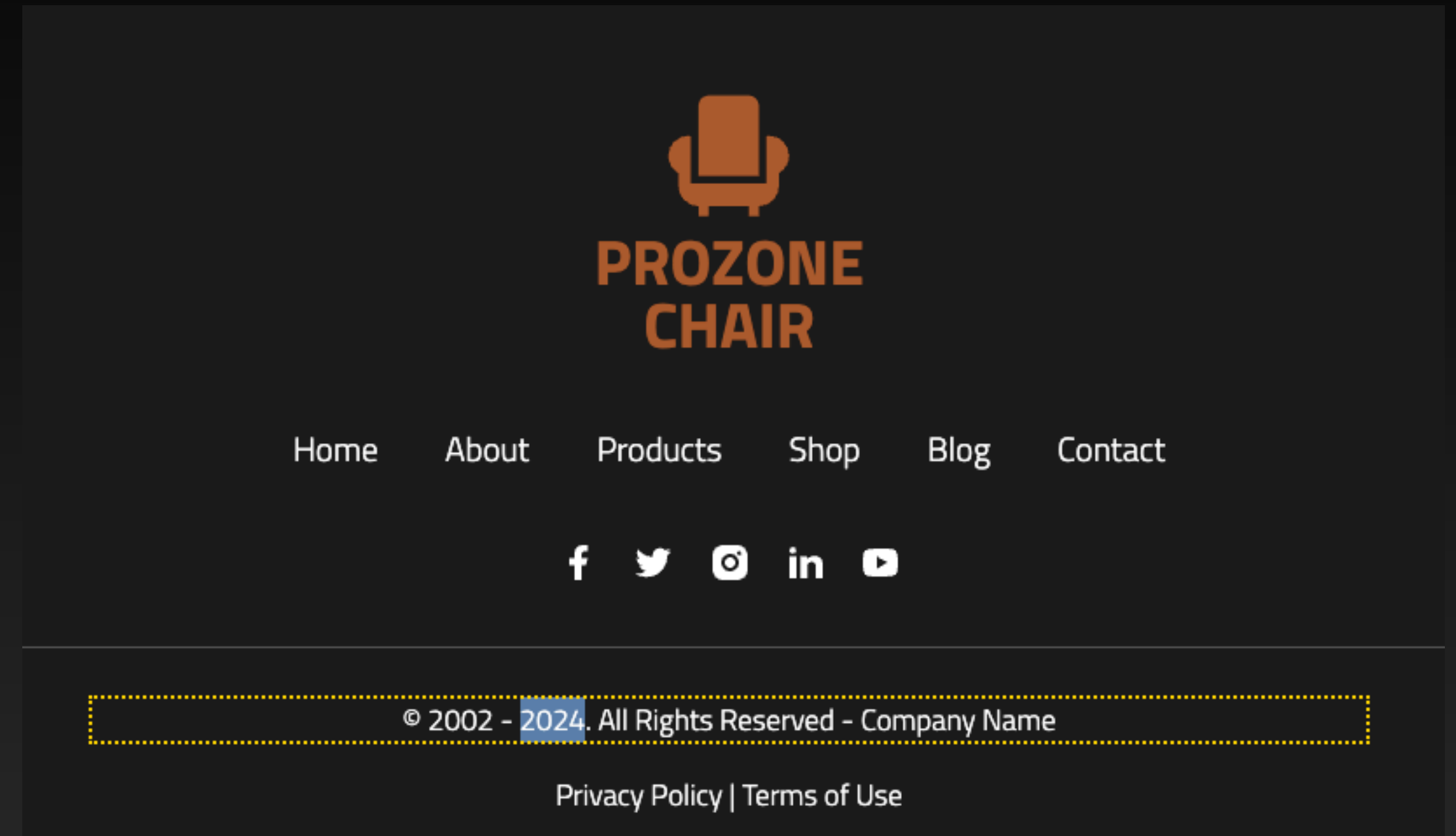
File/Folder	Commit
TechAkayy	Updated links in readme (1cc1fa3 · 29 minutes ago)
.vscode	first commit
screenshots	Updated screenshot
src	first commit
.gitattributes	first commit
.gitignore	first commit

..., refer to
t &
tion

Task 1 - Text Interpolation

In the Footer,

1. Display the current year as the end of year range.
2. Note that the page is served from a static hosting, so no server-side rendering (for eg, using php).



Task 1 - Revue

The screenshot shows a web browser with a Vue.js framework selection menu open. The menu lists several options: Petite Vue (checked), Alpine.js, Standard Vue, Add CDN Script (choose one of below two options, don't mix them up), Global App, Individual Islands, Cloak inline style, Add v-cloak inline style, How/when to hydrate islands?, Add @11ty/is-land, Open Devtools, Auto reload on update (checked), and Github Docs. A tooltip for 'Auto hydrated/init (simplest - added to head)' is visible, stating 'Added to head tag, includes defer and init attributes.' The background shows a DevTools component inspector for a 'Support' component, displaying its props and styles.

The screenshot shows the header and footer of a website for 'PROZONE CHAIR'. The header features the company logo (a chair icon) and the name 'PROZONE CHAIR'. Below the logo is a navigation menu with links for Home, About, Products, Shop, Blog, and Contact. At the bottom of the header are social media icons for Facebook, Twitter, Instagram, LinkedIn, and YouTube. The footer contains a copyright notice: '© 2002 - 2024. All Rights Reserved - Company Name' and links for Privacy Policy and Terms of Use.

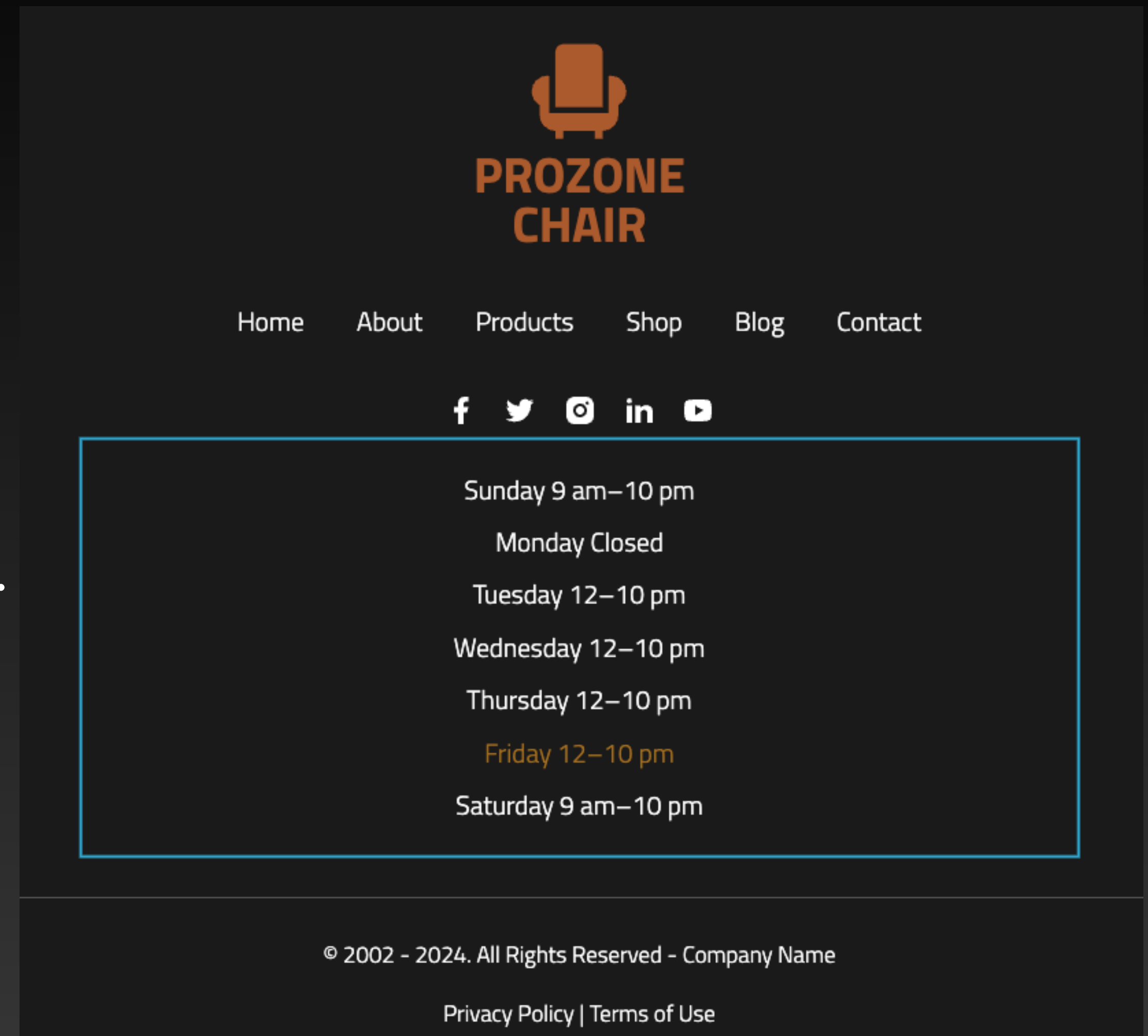
The screenshot shows a code editor with several Vue.js directives highlighted in yellow. The directives are: `v-scope="{}`, `{{ new Date().getFullYear() }}`, `v-effect="$el.textContent = count"`, `v-text`, and `v-html`.

**PROZONE
CHAIR**

Task 2 - Loops, Data binding, Conditionals

In the Footer,

1. Display the opening hours for the whole week.
2. Use an local array for now! The data is maintained in a headless CMS (sunday to saturday), so we will replace the local array with a api fetch later.
3. Highlight today's opening hours in primary color.



Module Script

1. **Singleton** - loaded only once, even if imported multiple times.
2. **Deferred by default** - execute after HTML content is parsed. Can be anywhere within the document.
3. **Modern ES module syntax** - modular code with import/export.
4. **Strict mode** - all objects (let, const, var, function, class) are private unless explicitly exported.
5. **No File Protocol** - External module imports don't support file protocol.

```
script | EDIT CODE
search
1 <script type="module">
2   import { createApp } from 'https://unpkg.com/petite-vue?module'
3   //...
4 </script>
5
6 <script type="module" src="./opening-hours.js"></script>
7
8 <script type="module">
9   import './opening-hours.js'
10  import { foo } from 'package'
11  //...
12 </script>
13
```


Task 2 - Revue

```
script | EDIT CODE
search
1 <script type="module" data-pg-name="App-Petite Vue">
2   import { createApp } from 'https://unpkg.com/petite-vue?
   module'
3
4   const state = {
5     // state exposed to all expressions within v-scope
     regions
6     weekdays: [
7       'Sunday 9 am-10 pm',
8       'Monday Closed',
9       'Tuesday 12-10 pm',
10      'Wednesday 12-10 pm',
11      'Thursday 12-10 pm',
12      'Friday 12-10 pm',
13      'Saturday 9 am-10 pm',
14    ],
15    get todaysOpeningHours() {
16      return this.weekdays[new Date().getDay()]
17    },
```

Home About Products Shop Blog Contact



Sunday 9 am-10 pm
Monday Closed
Tuesday 12-10 pm
Wednesday 12-10 pm
Thursday 12-10 pm
Friday 12-10 pm
Saturday 9 am-10 pm

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[Privacy Policy](#) | [Terms of Use](#)

v-for / :key

v-bind (:)

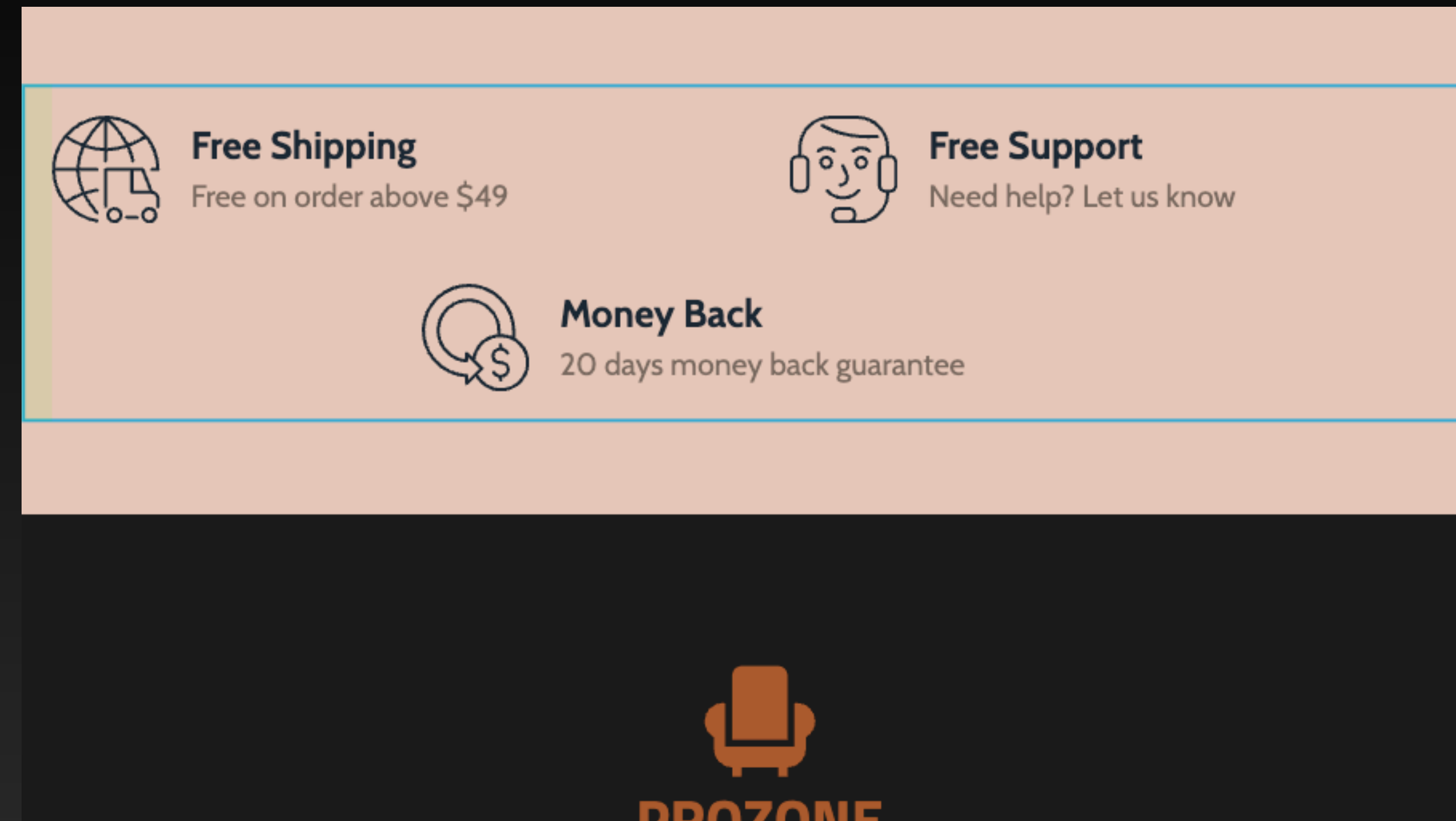
v-show

v-if, v-else, v-else-if

Task (experimental) - Client-side rendering











In the Deals section (just above Footer),

1. If you are following along, skip doing this task at your end.
2. The three deals boxes, can they be looped?
 - a. Free Shipping
 - b. Free Support
 - c. Money Back
3. SEO impact while client-side rendering



Use Cases - Petite-Vue

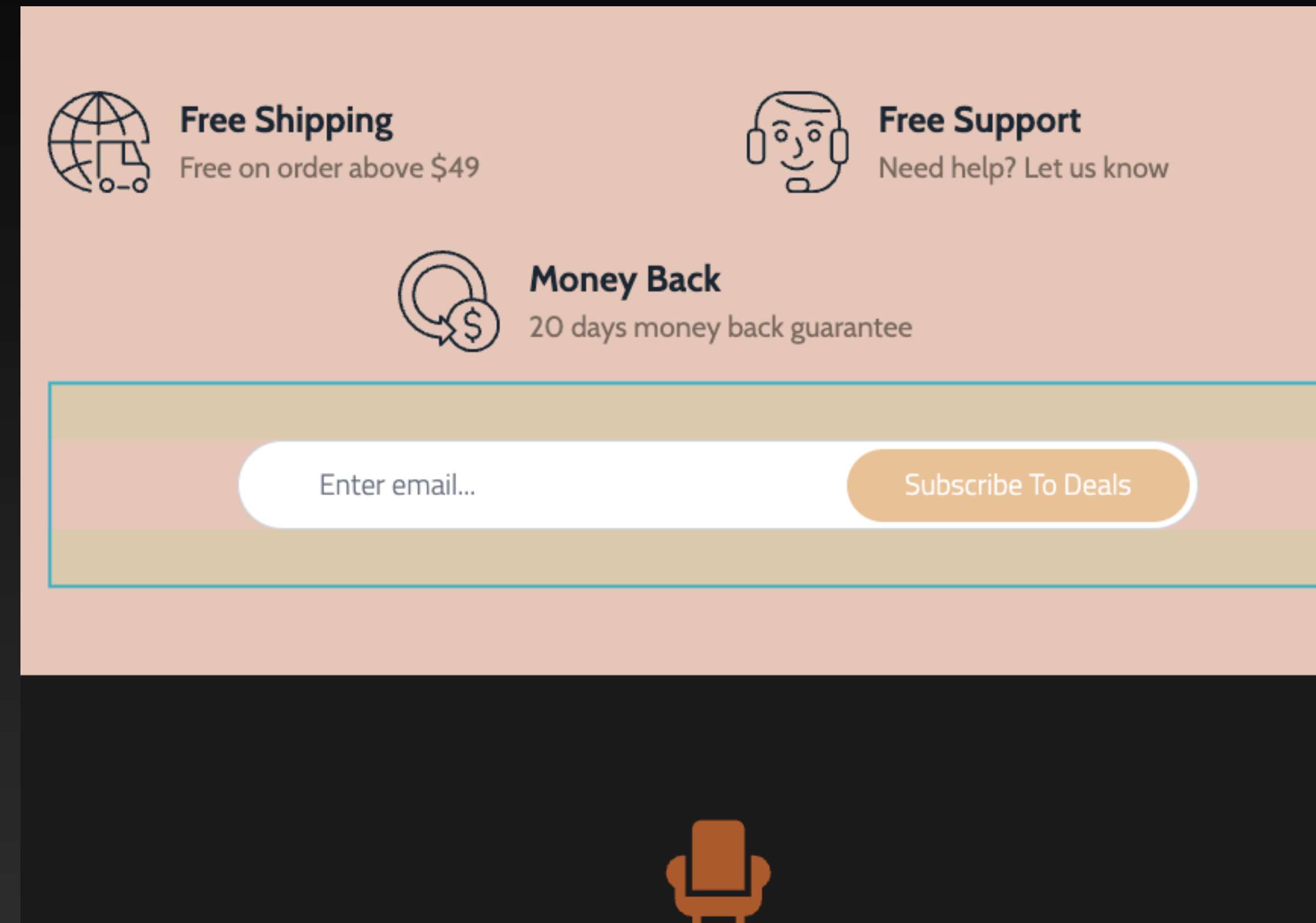
Progressive enhancement is ideally done on top of SSG / SSR
"sprinkles" of interactions (CSR)

	MPA	SPA
SSG	 Eleventy  Iles  Astro	 Vitepress  Nuxt
SSR	 Wordpress  Laravel  Astro	 Nuxt  Quasar

Task 3 - Two-way data binding, Events

In the Deals section (just above Footer),

1. Add a subscription form to let users enter their email and subscribe to deals.
2. Enable the subscribe button only if a valid email is entered.
3. Validate the email address when leaving the input and display an error message below.
4. The subscribe button shall post the email to an API endpoint later. For now, just console log the email address.



Task 3 - Revue

script | EDIT CODE

search

```
23   email: '',
24   invalidMessage: '',
25   validateEmail() {
26     const re = /^(([^<>()\\[\]\/\.,;:\s@"]+(\.[^<>()\\[\]\/\.,;:\s@"]+
27     *)|"(.*")|(\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}
28     |([a-zA-Z-0-9]+\.)+[a-zA-Z]{2,}))$/
29     if (re.test(this.email)) {
30       this.invalidMessage = ''
31     } else {
32       this.invalidMessage = 'Enter an valid email address!'
33     }
34   },
35   subscribe() {
36     if (!this.invalidMessage) {
37       console.log(this.email)
38     }
39   },
40   createApp(state).mount()
41 </script>
```



Free Shipping

Free on order above \$49



Free Support

Need help? Let us know



Money Back

20 days money back guarantee

invalid@coffee

Subscribe To Deals

Enter an valid email address!

v-model

v-bind:attr

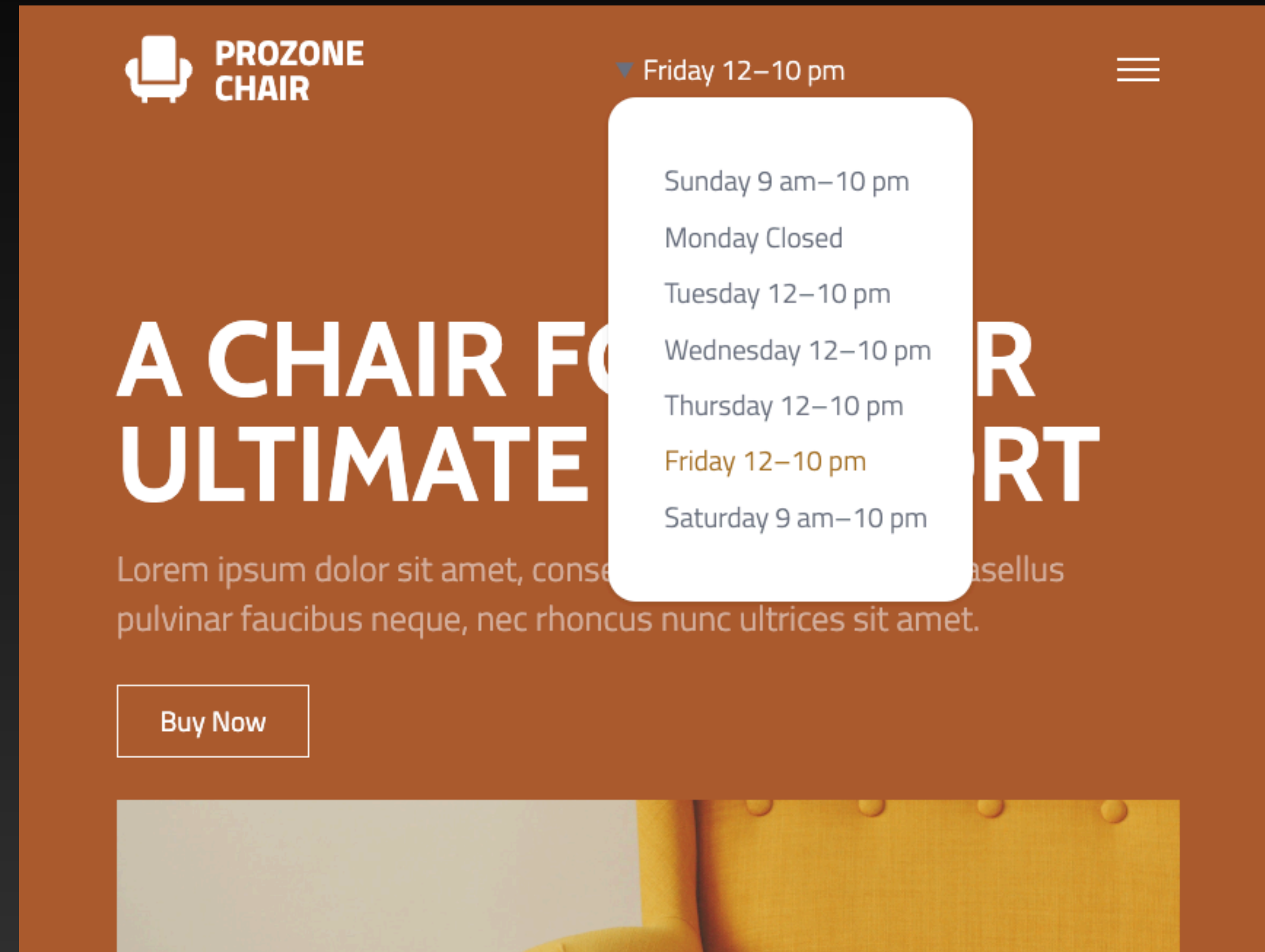
v-on:blur

v-on:click

Task 4 - Components, Cloak

In the Navbar,

1. Display today's opening hours
2. When clicked, display the opening hours for the whole week in a popover.
3. Clicking on it again (or) clicking away should close the popover.
4. Ensure there is no "blip" of unrendered characters, across the whole page, for eg, `{{ foo }}`.



Task 4 - Revue

```
script | EDIT CODE
search
12      'Friday 12-10 pm',
13      'Saturday 9 am-10 pm',
14    ],
15    get todaysOpeningHours() {
16      return this.weekDays[new Date().getDay()]
17    },
18    AllOpeningHours() {
19      return {
20        $template: '#component-all-opening-hours'
21      }
22    },

```

Component-All Opening Hours template#com

INFO HTML

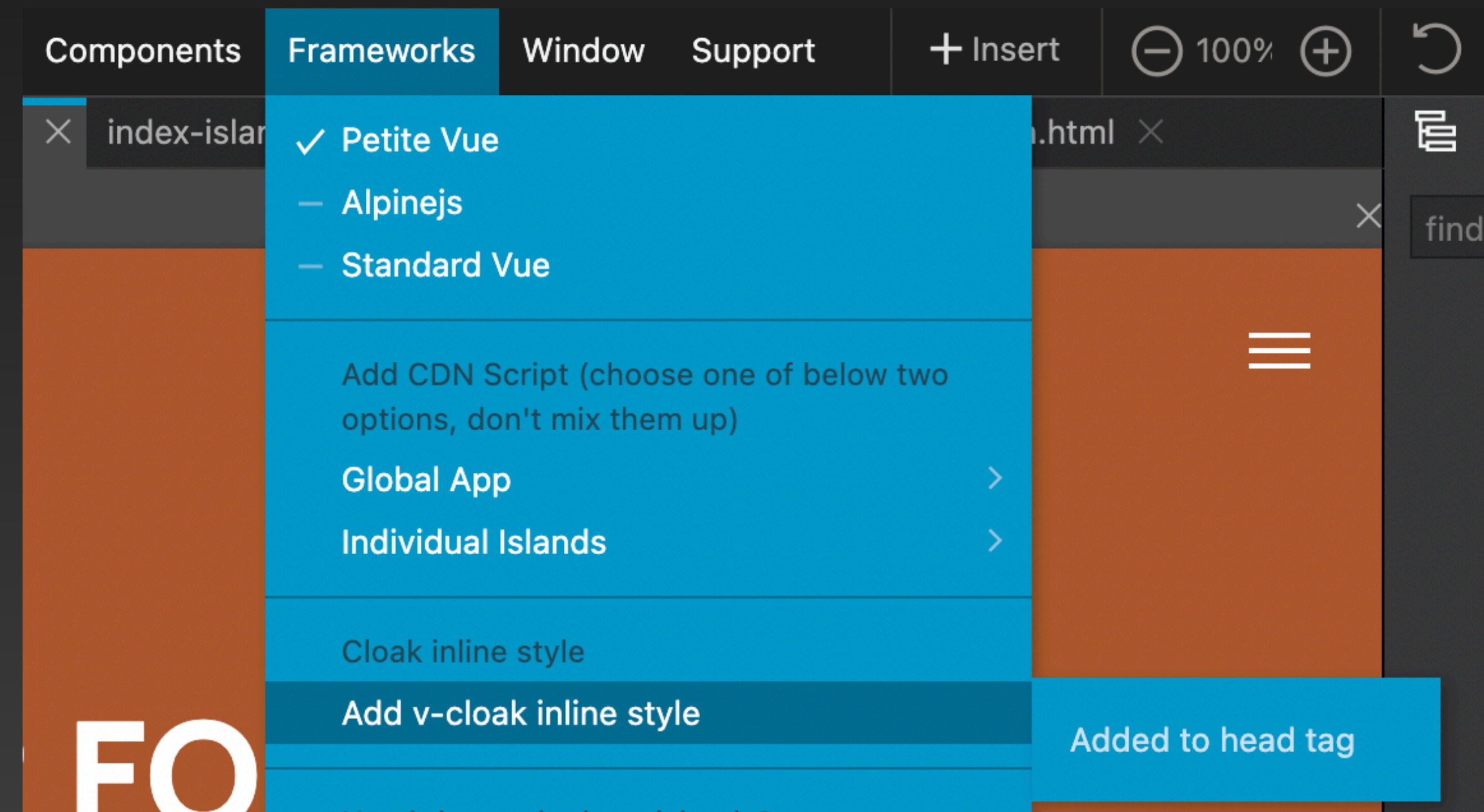
Id: component-all-opening-hours

Name: Component-All Opening Hours

Title:

Edit HTML

+ Add class



Wordpress + Progressive Enhancement

The image shows a web editor interface with three main panels:

- Code Editor:** Displays a Vue.js script with the following code:

```
1 <script type="module" data-pg-name="App-Petite Vue" wp-no-enqueue>
2   import { createApp } from 'https://unpkg.com/petite-vue?module'
3
4   const state = {
5     // state exposed to all expressions within v-scope regions
6     weekdays: [
7       'Sunday 9 am-10 pm',
8       'Monday Closed',
9       'Tuesday 12-10 pm',
10      'Wednesday 12-10 pm',
11      'Thursday 12-10 pm',
12      'Friday 12-10 pm',
13      'Saturday 9 am-10 pm',
14    ],
15    get todaysOpeningHours() {
16      return this.weekdays[new Date().getDay()]
17    },
18    AllOpeningHours() {
19      return {
20        $template: '#component-all-opening-hours'
21      }
22    }
23  }
24
25  createApp({
26    state,
27    template: '#app-petite-vue'
28  }).mount('#app')
```
- Component List:** Shows a tree view of components. The component `App-Petite Vue script` is highlighted in blue. A pink arrow points from this component to the `wp-no-enqueue` attribute in the code editor.
- WordPress Actions:** Shows a list of actions. The `Do Not Enqueue` action is highlighted in blue. A pink arrow points from this action to the `wp-no-enqueue` attribute in the code editor.

Two blue callout boxes are present on the right side:

- Inline Module Script - Do Not Enqueue** (points to the `wp-no-enqueue` attribute)
- Imported Module Script - TODO -** (points to the `import` statement)



1. Scope	<code>v-scope="{ count: 0 }</code>	<code>x-data="{ count: 0 }"</code>
2. Initialization / lifecycle	<code>@vue:mounted="count=10"</code>	<code>x-init="count=10"</code>
3. Text interpolation	Count is: <code>{{ count }}</code> , <code>v-cloak</code>	Count is: <code></code>
4. Re-evaluation	<code>v-effect="count=15"</code>	<code>x-effect="count=15"</code>
5. Show/hide conditionally	<code>v-show</code>	<code>x-show</code>
6. Render conditionally	<code>v-if, v-else, v-else-if</code>	<code>x-if</code>
7. Looping	<code>v-for / :key</code>	<code>x-for / :key</code>
8. Data Binding (attributes, class, style)	<code>v-bind (:)</code>	<code>x-bind (:)</code>
9. Two-way binding	<code>v-model</code>	<code>x-model</code>
10. Event	<code>v-on (@)</code>	<code>x-on (@)</code>
11. Text/Html content	<code>v-text / v-html</code>	<code>x-text / x-html</code>
12. Template Refs	<code>ref</code>	<code>x-ref</code>
** Other Features **	Components, Custom Directives & Global Store	and more...

Petite-vue is 2 yrs old,
Alpinejs 4-5 yrs old

DIY

Alpinejs can be installed
via npm

Alpinejs Transitions &
Magics

Alpinejs Plugins















Alpinejs UI Components /
Design Blocks

* Not an exhaustive
comparison

petite-vue

1. Progressive enhancement.
2. Same template syntax as standard **Vue**.
3. Optimized for "**sprinkling**" a small amount of interactions on an **server-rendered HTML** document.
 - a. Light-weight ~6kb (cdn), no build step
 - b. DOM *is* the template (no virtual-dom)
 - c. Similar to Alpinejs, but part of the Vue ecosystem
 - d. Feature-complete, stable for years to come...

Some tips

1. Understand `v-show` versus `v-if` 
2. `v-on:click`, not `@click`  
3. Avoid arrow functions  
4. `x-for`, `x-if` must be on a `<template>` tag, only one root container 
5. `x-for/v-for :key`, if re-ordering is important  
6. `v-html`, `x-html` - avoid them, xss vulnerabilities  
7. Understand SEO impact while client-side rendering  
8. Alpine.js & Vue devtools  
9. Share you tips in the comments.

Petite-Vue Templates & Examples

Create a new page or project

Choose what kind of page you wish to create:

Bootstrap 5 Blocks

Tailwind CSS Blocks

Interactions Blueprints

Bootstrap 4 Blocks

Frameworks Lite 1.1

Bootstrap 5

Tailwind CSS

Plain HTML

Tailwind UI

Foundation 6.6

Bootstrap 3 Blocks for WP

Bootstrap 3 Blocks


Bootstrap 4

Foundation 5

Frameworks Lite 1.1 components & blocks. | By Ahmed Kaja




petite-vue-global-app.html



petite-vue-islands.html



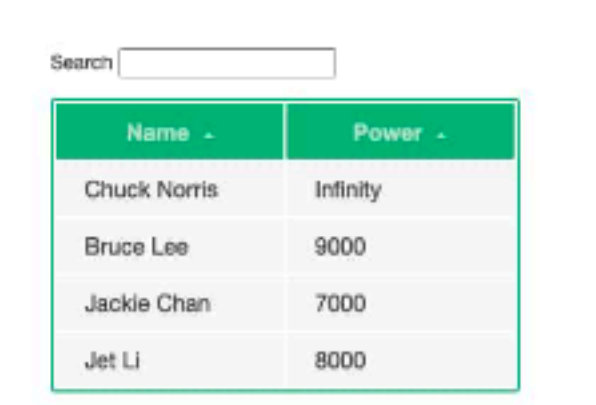
alpinejs-global-app.html



standard-vue-islands.html



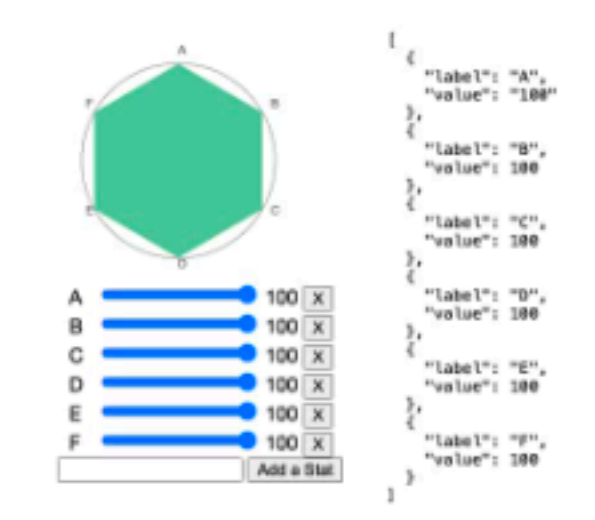
example-commits.html



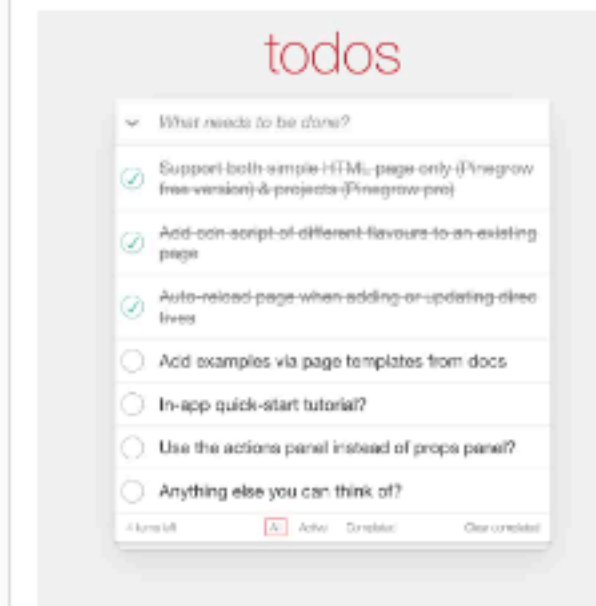
example-grid.html



example-markdown.html



example-svg.html



example-todomvc.html



example-tree.html

Production



Production CDN URLs

The short CDN URL is meant for prototyping. For production usage, use a fully resolved CDN URL to avoid resolving and redirect cost:

- Global build: `https://unpkg.com/petite-vue@0.2.2/dist/petite-vue.iife.js`
 - exposes `PetiteVue` global, supports auto init
- ESM build: `https://unpkg.com/petite-vue@0.2.2/dist/petite-vue.es.js`
 - Must be used with `<script type="module">`



Don't forget the "defer" attribute in the `<script>` tag.

Notice the `@3.x.x` in the provided CDN link. This will pull the latest version of Alpine version 3. For stability in production, it's recommended that you hardcode the latest version in the CDN link.

```
<script defer src="https://cdn.jsdelivr.net/npm/alpinejs@3.13.3/dist/cdn.min.js"></s
```




PROGRESSIVE HYDRATION OF ISLANDS WITH 11ty IN STATIC HTML (2)



pinegrow

<http://pinegrow.com>

Monolithic Architecture

The image displays a web browser window on the left and a code editor on the right. The browser shows a page for 'PROZONE CHAIR' with a large headline 'A CHAIR FOR YOUR ULTIMATE COMFORT' and a yellow chair image. The code editor shows the component tree for 'index-global-app.html'. A blue box labeled 'Top-down hydration' is positioned over the root of the component tree, with lines pointing to the root node and its children, illustrating the flow of hydration from the root down to the components.

index-global-app.html SM 640 px

PROZONE CHAIR Friday 12–10 pm

A CHAIR FOR YOUR ULTIMATE COMFORT

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus pulvinar faucibus neque, nec rhoncus nunc ultrices sit amet.

Top-down hydration

INDEX-GLOBAL-APP.HTML html

- body font-light
- Pt-App script | import { createApp }...
- Pt-Component - All Opening Hours template#component-all-o...
- header bg-secondary-500 relative
 - div container mx-auto relative
 - nav flex flex-wrap items-center justify-between p-4
 - Pt-Scope - Today's Opening Hours div v-scope #todays-openi
- main
 - section bg-secondary-500 relative
 - div container mx-auto pb-24 pt-24 px-4 relative
 - section bg-secondary-100 py-12
 - div container mx-auto px-4 relative
 - Pt-Scope - Subscribe To Deals div v-scope py-8
 - div container mx-auto px-4
 - div mx-auto SM w-9/12 XL w-8/12
 - form
 - div flex justify-center pt-2 w-full
 - footer bg-opacity-90 font-light pt-12 text-center
 - div container mx-auto px-4 py-6 relative
 - Pt-Scope - All Opening Hours div v-scope #all-opening-hou... flex
 - div container mx-auto px-4 relative MD text-left
 - div py-4 text-sm
 - div flex flex-wrap -mx-4 items-center
 - Pt-Scope - Legal div v-scope px-4 py-2 w-full MD flex-1

Islands Architecture

The image shows a web browser window displaying a chair advertisement for 'PROZONE CHAIR'. The page features a large orange header with the text 'A CHAIR FOR YOUR ULTIMATE COMFORT' and a smaller text block below it. At the bottom, there is a photograph of a yellow armchair. To the right, a development tool's code editor is open, showing the HTML structure of the page. A blue box labeled 'Top-down hydration' is positioned over the code, with lines pointing to the root of the document, the main content area, and the footer. The code structure includes a root element 'INDEX-GLOBAL-APP.HTML html', a 'body' element, a 'header' element, a 'nav' element, a 'main' element, and a 'footer' element. The 'main' element contains several sections, including 'Today's Opening Hours' and 'Subscribe To Deals'. The 'footer' element contains 'All Opening Hours' and 'Legal' sections.

index-global-app.html SM 640 px

PROZONE CHAIR Friday 12–10 pm

A CHAIR FOR YOUR ULTIMATE COMFORT

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus pulvinar faucibus neque, nec rhoncus nunc ultrices sit amet.

Top-down hydration

```
INDEX-GLOBAL-APP.HTML html
  body font-light
    Pt-App script | import { createApp }...
    Pt-Component - All Opening Hours template#component-all-o...
    header bg-secondary-500 relative
      div container mx-auto relative
        nav flex flex-wrap items-center justify-between p-4
          Pt-Scope - Today's Opening Hours div v-scope #todays-openi...
    main
      section bg-secondary-500 relative
        div container mx-auto pb-24 pt-24 px-4 relative
      section bg-secondary-100 py-12
        div container mx-auto px-4 relative
          Pt-Scope - Subscribe To Deals div v-scope py-8
            div container mx-auto px-4
              div mx-auto SM w-9/12 XL w-8/12
                form
                  div flex justify-center pt-2 w-full
    footer bg-opacity-90 font-light pt-12 text-center
      div container mx-auto px-4 py-6 relative
        Pt-Scope - All Opening Hours div v-scope #all-opening-hou... flex
      div container mx-auto px-4 relative MD text-left
        div py-4 text-sm
          div flex flex-wrap -mx-4 items-center
            Pt-Scope - Legal div v-scope px-4 py-2 w-full MD flex-1
```


Wordpress + Progressive Hydration

The image shows a web editor interface with a dark theme. At the top, there's a navigation bar with menus like 'File', 'Edit', 'Page', 'Components', 'WordPress', 'Frameworks', 'Window', and 'Support'. Below this, a browser preview shows a mobile view of a website with a header for 'PROZONE CHAIR' and a time slot 'Friday 12-10 pm'. The main editor area is split into two panes. The left pane shows the code for a Vue.js component, with the attribute `wp-no-enqueue` highlighted in a pink box. The right pane shows the component's DOM tree, with the `App-Petite Vue script` element highlighted in a blue box. To the right of the DOM tree is a panel titled 'ALL WORDPRESS ACTIONS' which lists several actions, including 'enqueue' and 'Do Not Enqueue'. A pink arrow points from the `wp-no-enqueue` attribute in the code to the 'Do Not Enqueue' action in the WordPress actions panel. At the bottom right, there are two blue callout boxes: one containing the text 'Inline Module Script - Do Not Enqueue' and another containing 'Imported Module Script - TODO -'.

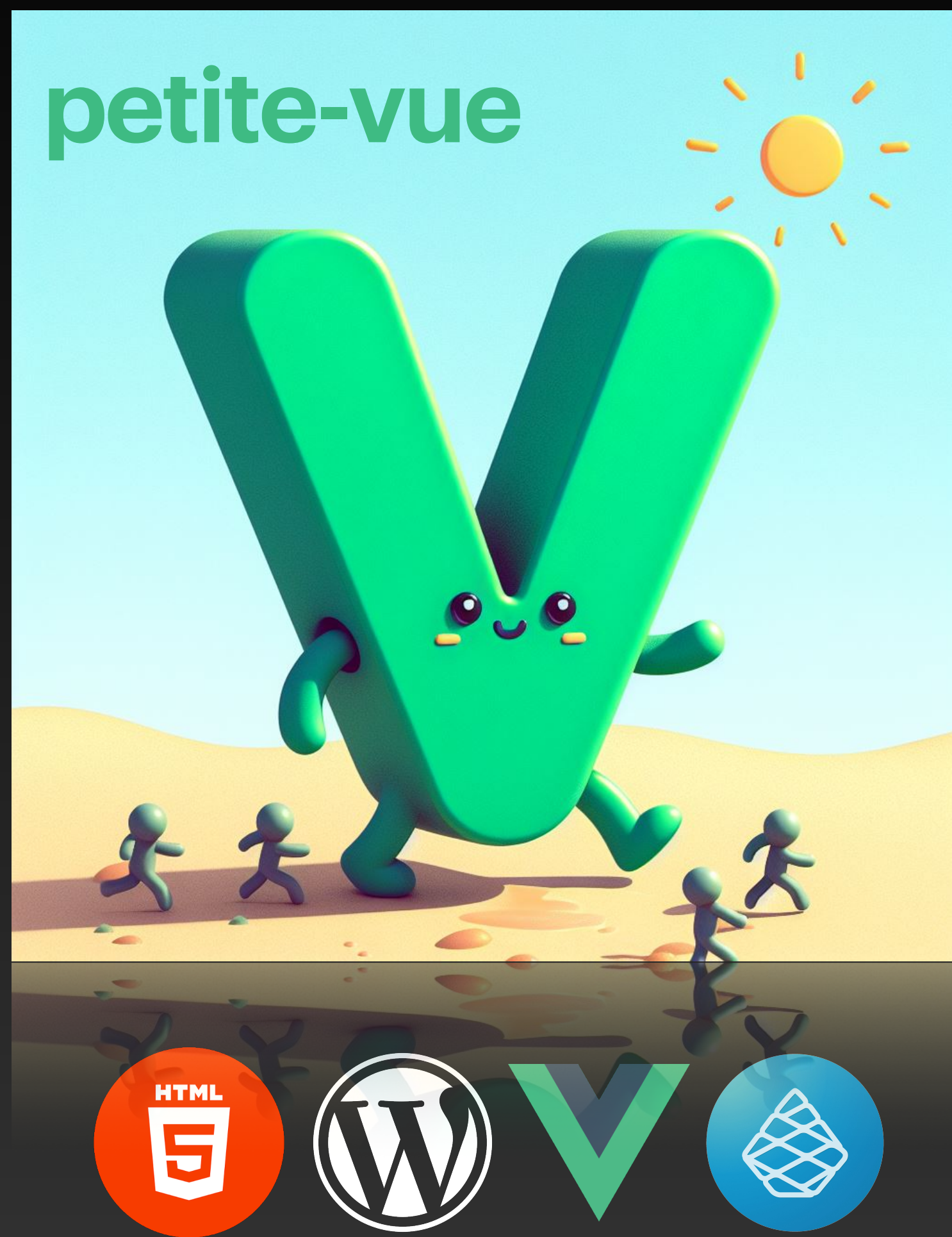
```
1 <script type="module" data-pg-name="App-Petite Vue" wp-no-enqueue>
2   import { createApp } from 'https://unpkg.com/petite-vue?module'
3
4   const state = {
5     // state exposed to all expressions within v-scope regions
6     weekdays: [
7       'Sunday 9 am-10 pm',
8       'Monday Closed',
9       'Tuesday 12-10 pm',
10      'Wednesday 12-10 pm',
11      'Thursday 12-10 pm',
12      'Friday 12-10 pm',
13      'Saturday 9 am-10 pm',
14    ],
15    get todaysOpeningHours() {
16      return this.weekdays[new Date().getDay()]
17    },
18    AllOpeningHours() {
19      return {
20        $template: '#component-all-opening-hours'
21      }
22    }
23  }
```

ALL WORDPRESS ACTIONS

- enqueue
- Do Not Enqueue

Inline Module Script - Do Not Enqueue

Imported Module Script - TODO -



PROGRESSIVE ENHANCEMENT OF HTML WITH STANDARD-VUE (3)



pinegrow

<http://pinegrow.com>

▼ **petite-vue (or) standard-vue?** ▼

1. Both - load from CDN, no “build step”.
2. DOM-based vs Virtual DOM (vue-devtools support).
3. Petite-vue additionally has v-scope & v-effect. Standard vue, has full set of vue directives, all reactivity apis, slots, components, etc
4. Setup - composition api / options api.
5. Use standard-vue if the client-side processing is little heavier than simple interactions.
6. Use standard-vue if templating to export as .vue component.
7. Use standard-vue to use component libraries like Vuetify via cdn.

Wordpress + Progressive Hydration

The image shows a web editor interface with a dark theme. The top navigation bar includes menus for File, Edit, Page, Components, WordPress, Frameworks, Window, and Support. The main editor area displays a preview of a website header for 'PROZONE CHAIR' with the text 'Friday 12-10 pm'. Below the preview, a code editor shows a Vue.js script being added to the page. The script is wrapped in a `<script type="module" data-pg-name="App-Petite Vue" wp-no-enqueue>` tag. A red box highlights the `wp-no-enqueue` attribute, and a red arrow points from this box to the 'Do Not Enqueue' option in the 'ALL WORDPRESS ACTIONS' panel on the right. The 'enqueue' option is also visible in the panel. The code editor shows the following code:

```
1 <script type="module" data-pg-name="App-Petite Vue" wp-no-enqueue>
2   import { createApp } from 'https://unpkg.com/petite-vue?module'
3
4   const state = {
5     // state exposed to all expressions within v-scope regions
6     weekdays: [
7       'Sunday 9 am-10 pm',
8       'Monday Closed',
9       'Tuesday 12-10 pm',
10      'Wednesday 12-10 pm',
11      'Thursday 12-10 pm',
12      'Friday 12-10 pm',
13      'Saturday 9 am-10 pm',
14    ],
15    get todaysOpeningHours() {
16      return this.weekdays[new Date().getDay()]
17    },
18    AllOpeningHours() {
19      return {
20        $template: '#component-all-opening-hours'
21      }
22    }
23  }
```

The 'ALL WORDPRESS ACTIONS' panel on the right shows the following actions:

- Do Not Enqueue
- enqueue
- SITE WordPress
- Enqueue Script / wp_enqueue_script
- Enqueue Style / wp_enqueue_style
- Do Not Enqueue

Two blue callout boxes are present on the right side of the image:

- Inline Module Script - Do Not Enqueue
- Imported Module Script - TODO -



PROGRESSIVE HYDRATION OF ISLANDS WITH ASTRO, ILES & NUXT (4)



Vue Designer

<https://vuedesigner.com>

Authoring Components





HTML-based Syntax

JSX




DSLs - Domain specific languages

Authoring Experience

	Iles, Nuxt & Quasar	Vitepress 	Astro 
Components	Vue SFC	Vue SFC	.astro, vue, svelte, jsx/tsx (multi-frameworks)
Layouts	Vue SFC	Vue SFC	.astro
Pages	Vue SFC, markdown	Markdown with config-driven & customizable theme	.astro, markdown

Component Islands

Dynamic & Static Islands

	Iles  	Nuxt 
Hydration (JS)	Explicitly opt-in	Optionally opt-out
Beliefs	Static is default	Dynamic is default
Islands	Dynamic Islands in mostly static surroundings	Static Islands in mostly dynamic surroundings
Manage By	Client directives	Server components
How	<code>client:load</code> <code>client:idle</code> <code>client:visible</code> <code>client:media</code> <code>client:none</code>	<code>BlogPost.server.vue</code>
JS shipped to browser	Helps with not shipping JS or to hydrate conditionally	Helps with not shipping JS at all to the browser

Hydration

- DOM is made interactive
- Event listeners are registered
- Reactive data gets active, etc

Dynamic & Static in this context means hydration or not (javascript)

A guide to Nuxt Server Components

<https://roe.dev/blog/nuxt-server-components>

- by Daniel Roe

Thank You



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