



Vue JS 3 Tutorial

Introduction

What is Vue?

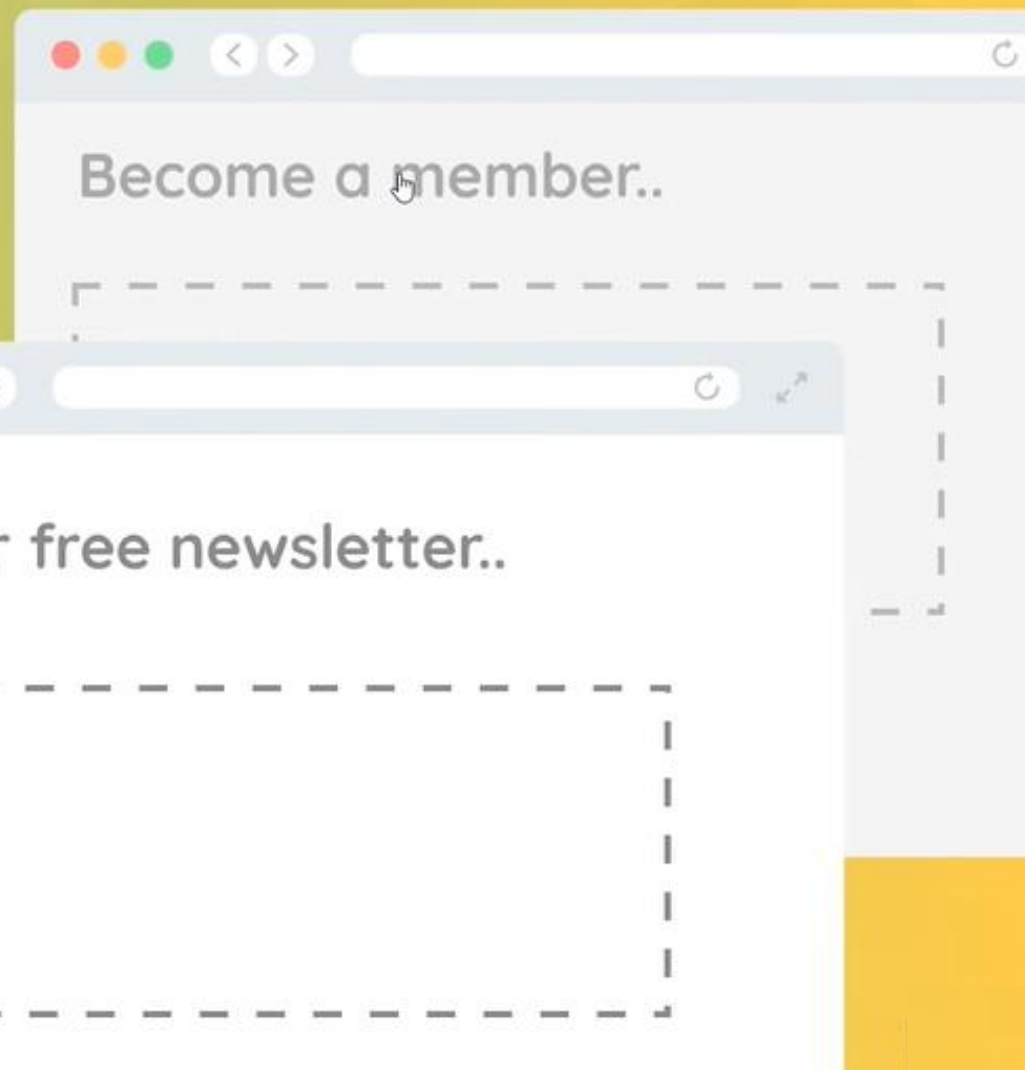
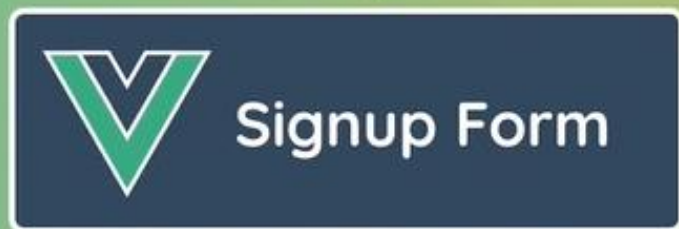
What is Vue?

- Front-end, JavaScript / TypeScript framework
- Used to create dynamic & data-driven websites (SPA's)
- Can also be used to create stand-alone widgets



Vue Widgets

Vue Component

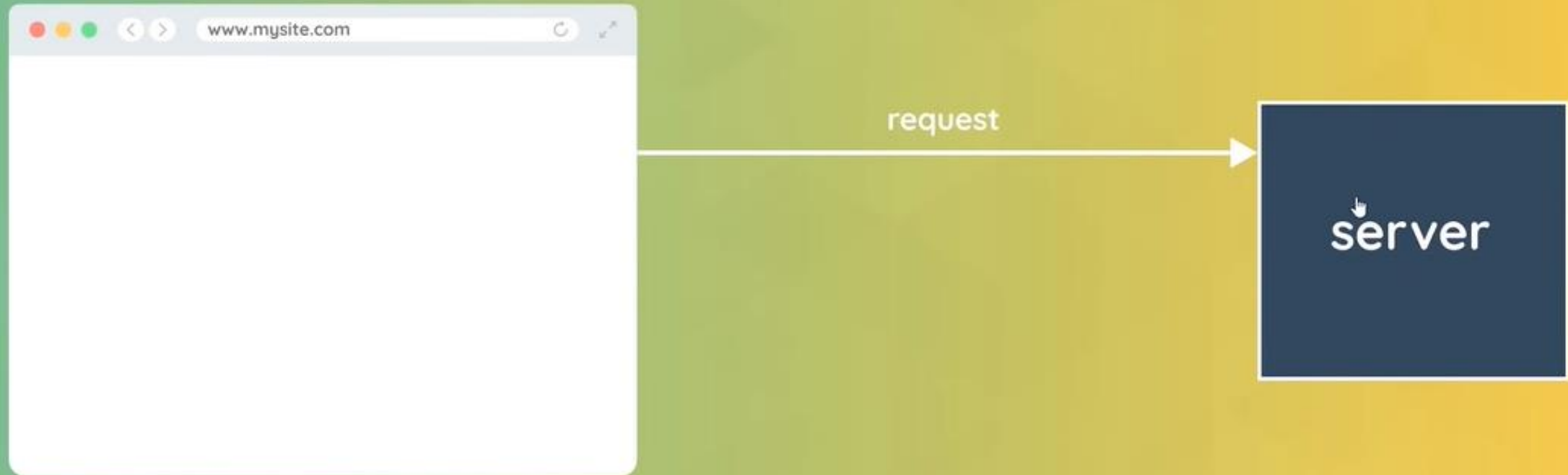


Vue Websites

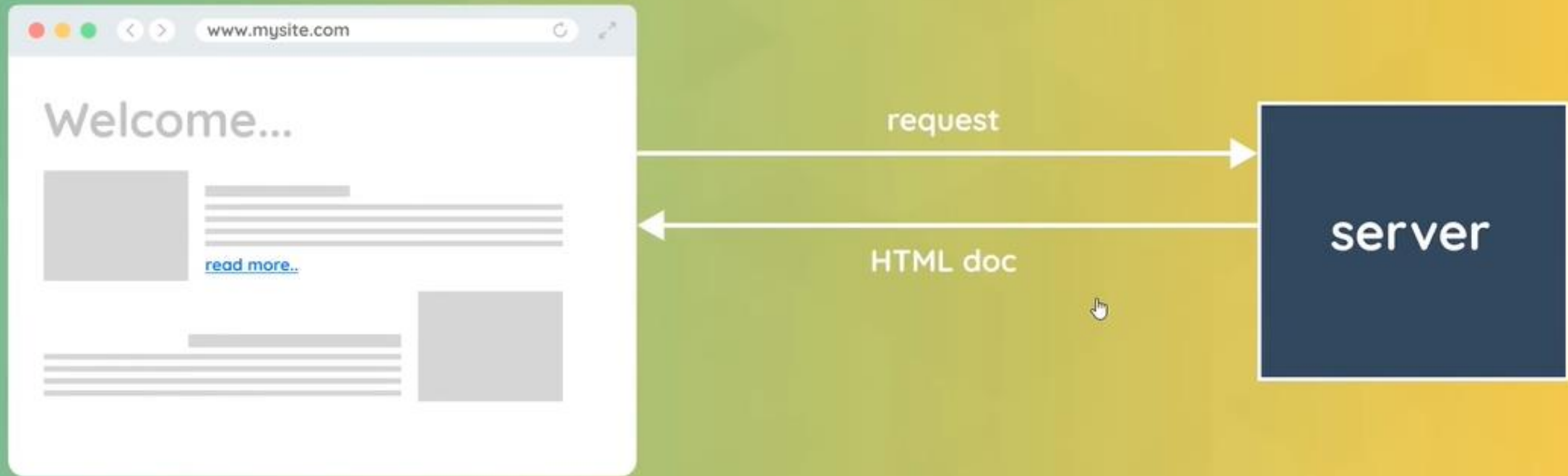
- Vue is used to create a whole website with multiple pages & components
- These websites are normally called Single Page Applications
- All routing is done in the browser & not on the server



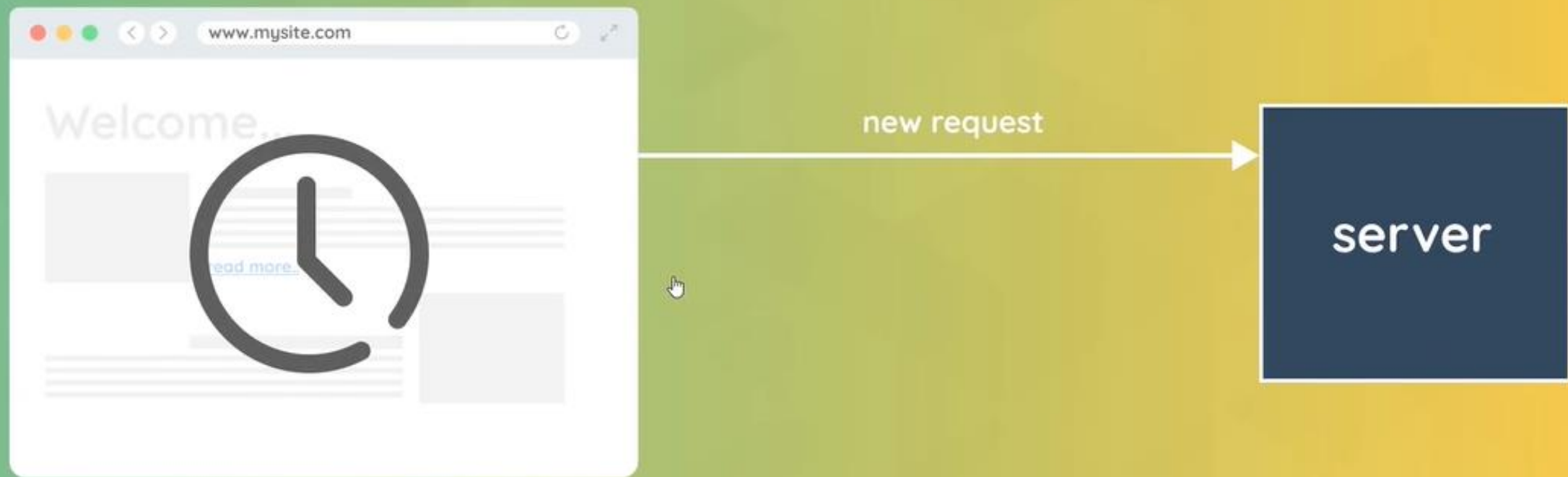
Typical non-Vue Websites



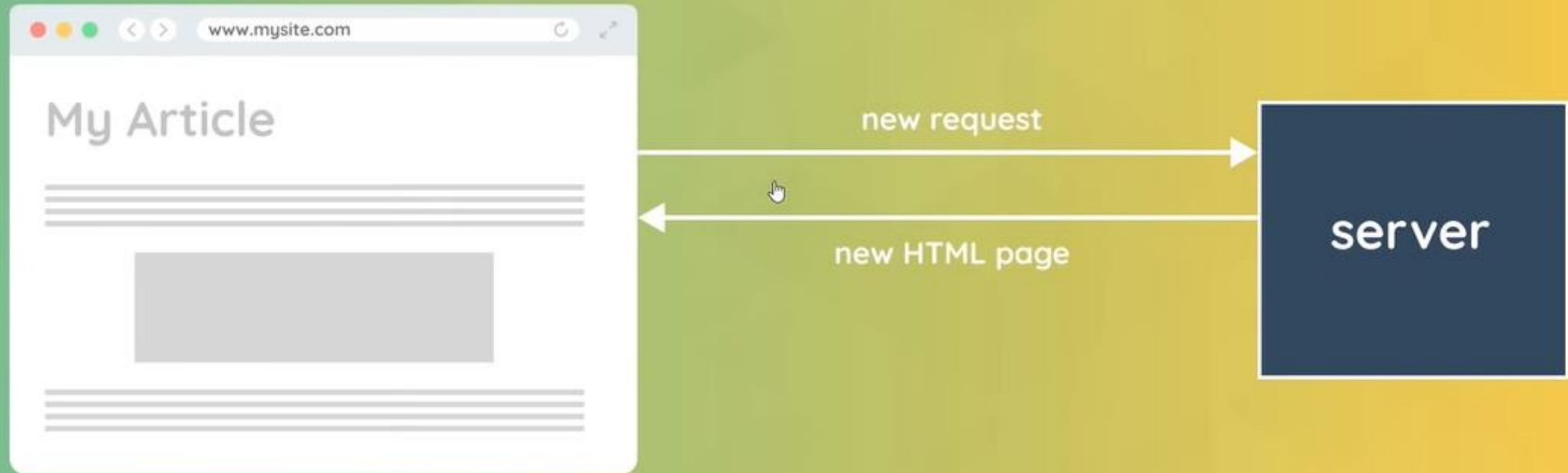
Typical non-Vue Websites



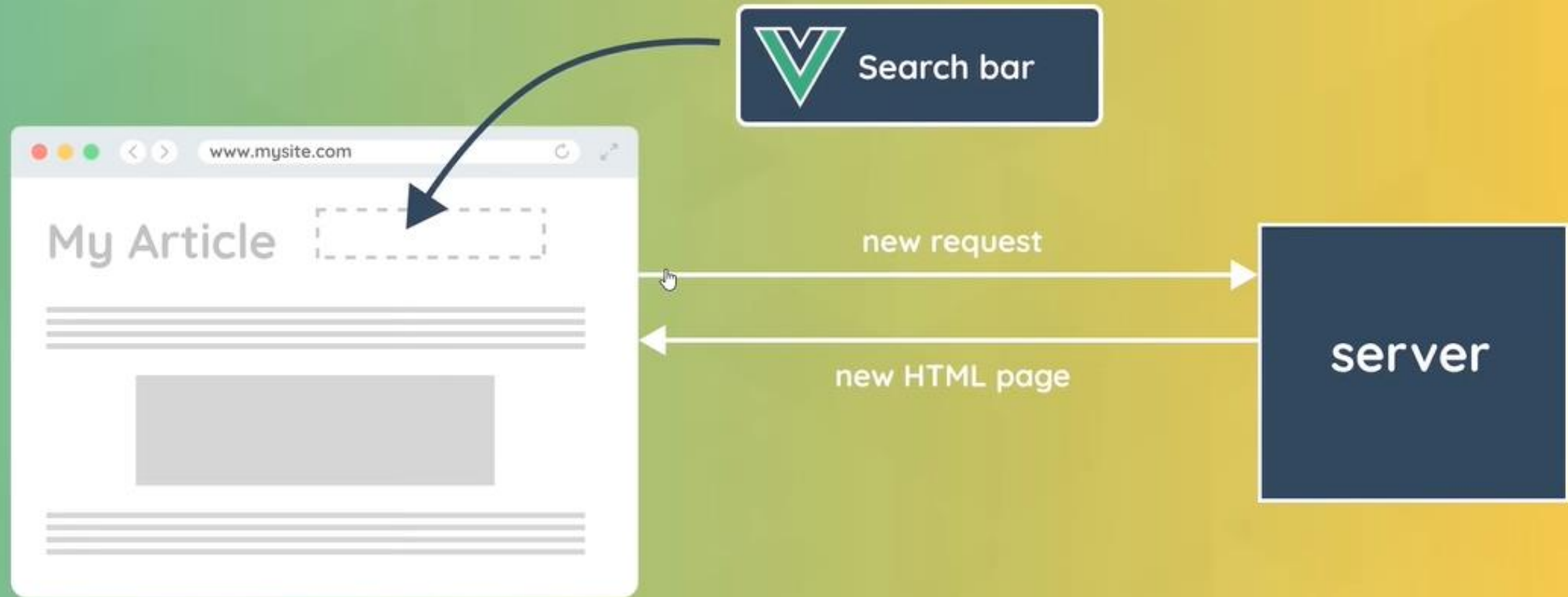
Typical non-Vue Websites



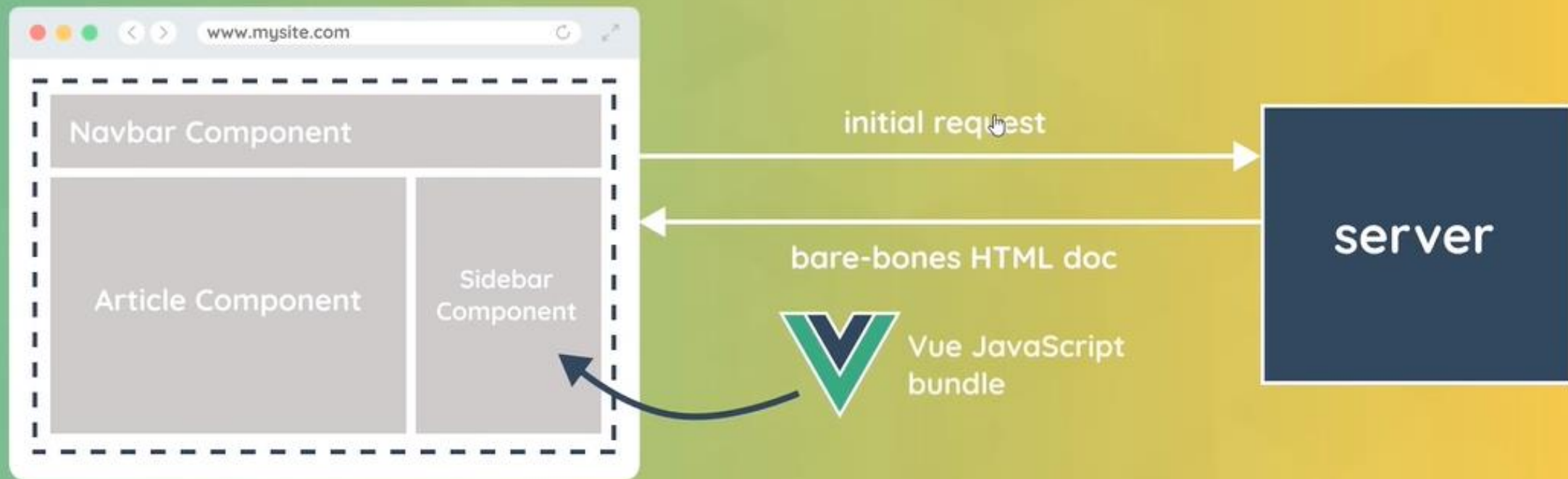
Typical non-Vue Websites



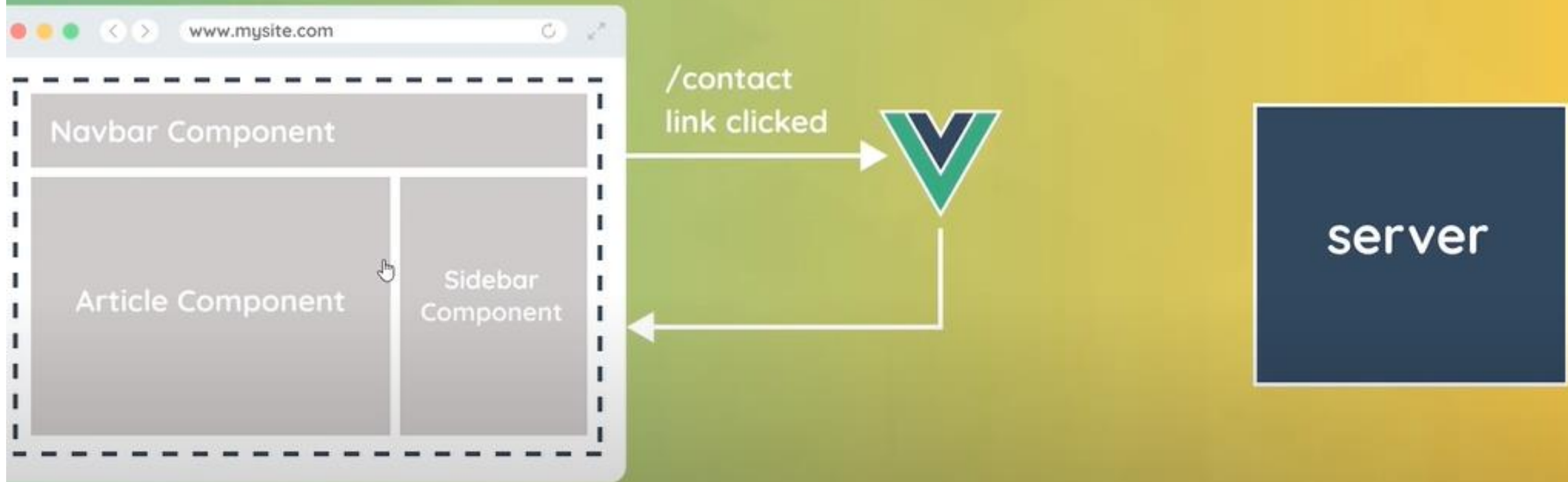
Typical non-Vue Websites



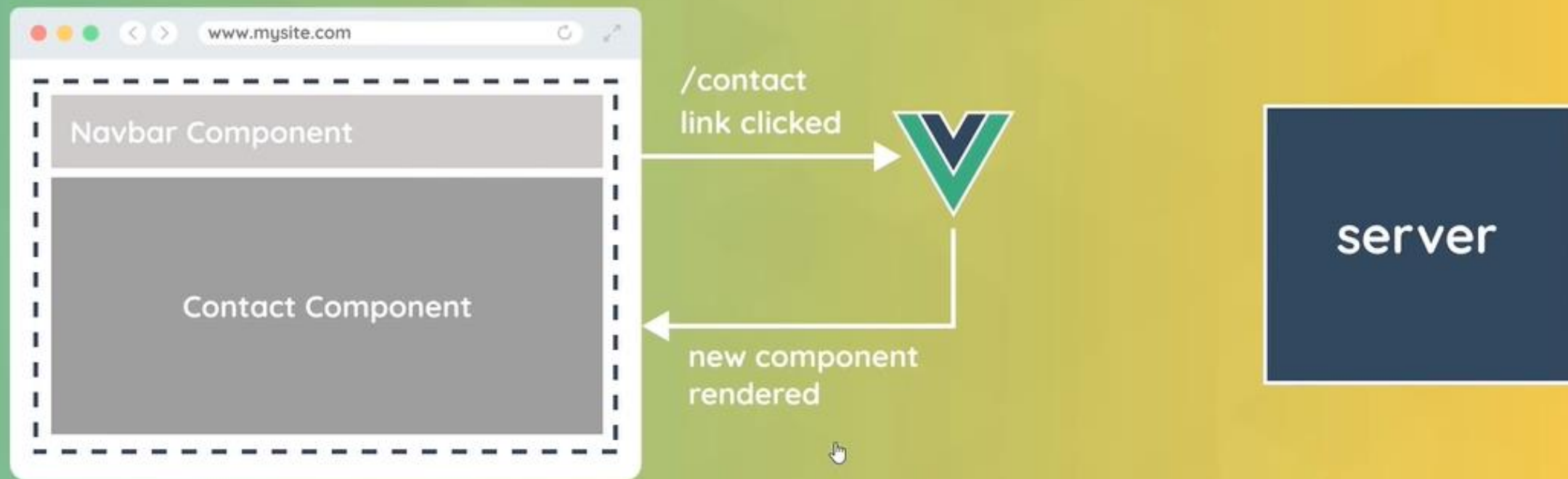
Vue Websites



Vue Websites



Vue Websites



Vue Websites

Single Page Application (SPA)

- Only a single HTML page sent (initially) to the browser
- Vue intercepts subsequent requests and handles "page" changes in the browser by swapping what components are shown on the page
- Results in a much faster and smoother website experience



server

New Features in Vue 3

Vue 3 New Features



The Composition API

- Improves on reusability, organization & readability
- It does this by giving us a new `setup()` function



Multiple Root Elements

- Can have many root elements side-by-side in a component

```
<template>  
  <div>  
    <p>Hello, World!</p>  
  </div>  
  <div>  
    <p>Hello, again!</p>  
  <div>  
</template>
```

Teleport Component

- Render content from one component in a different place in the DOM
- Useful for things like modals

Suspense Component

- Used to handle asynchronous components easily
- Can provide fall-back content (e.g. a spinner) until data is loaded

TypeScript Support

- Can now write Vue applications using TypeScript

More Changes

- Multiple v-models for custom components
- Improved Reactivity
- Performance gains

Environment Setup

Version 1.50 is now available! Read about the new features and fixes from September.

Code editing. Redefined.

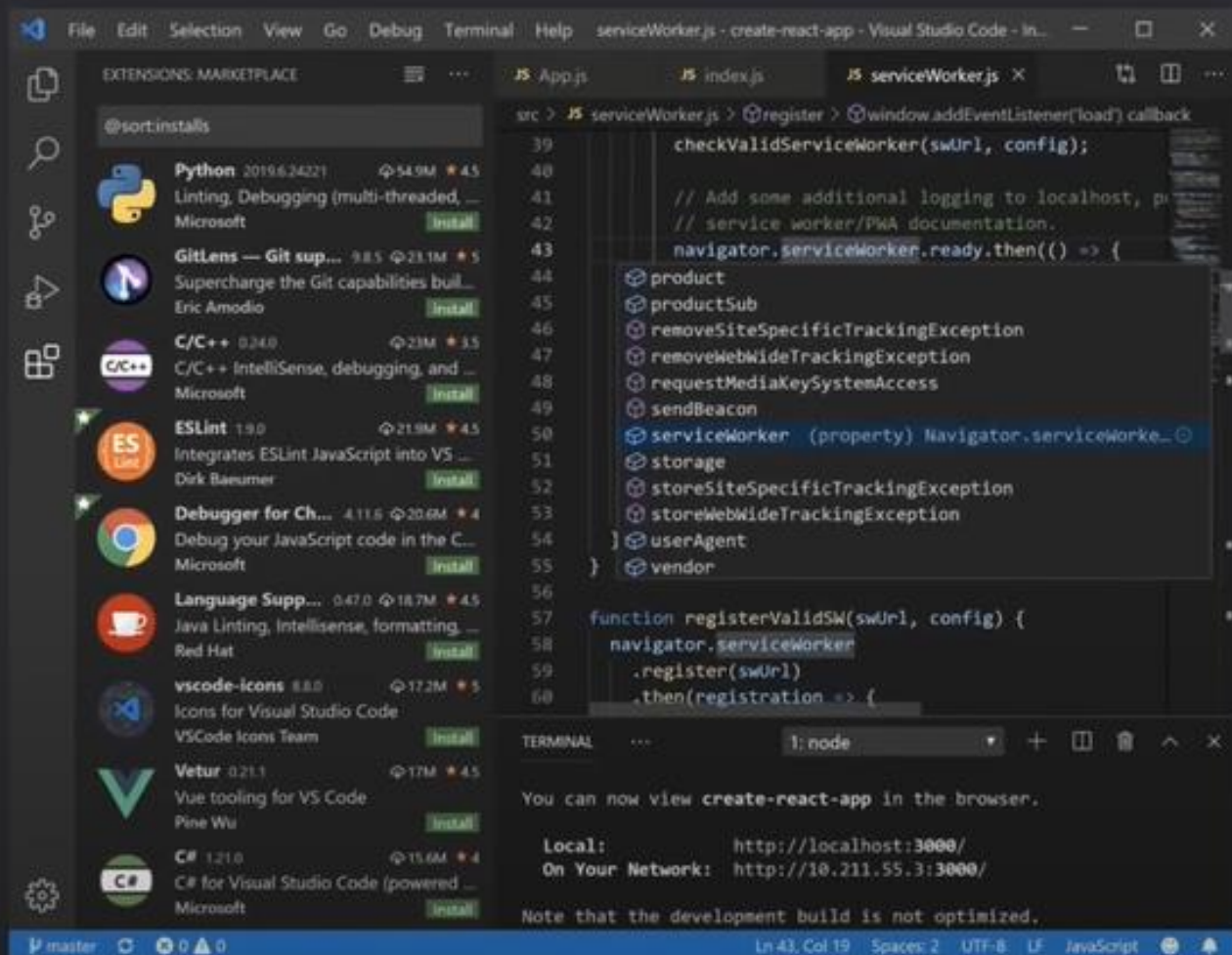
Free. Built on open source. Runs everywhere.

Download for Windows

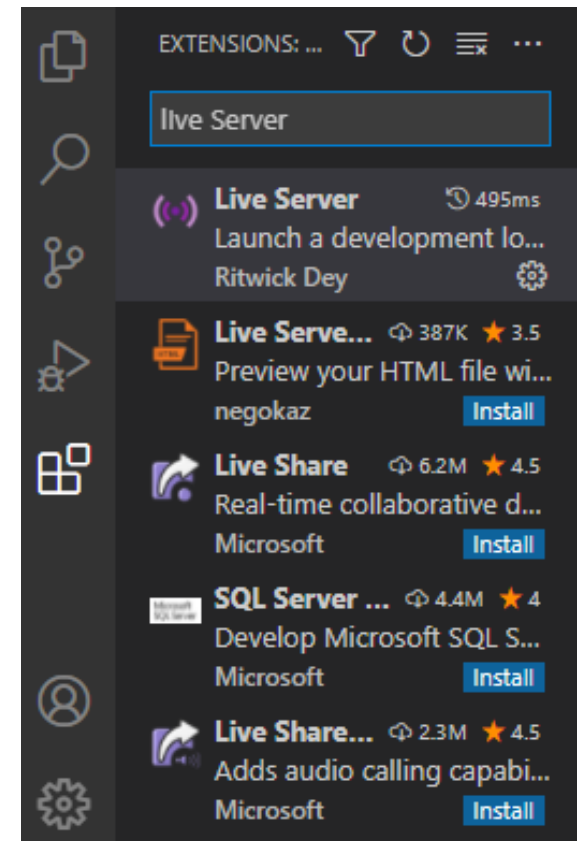
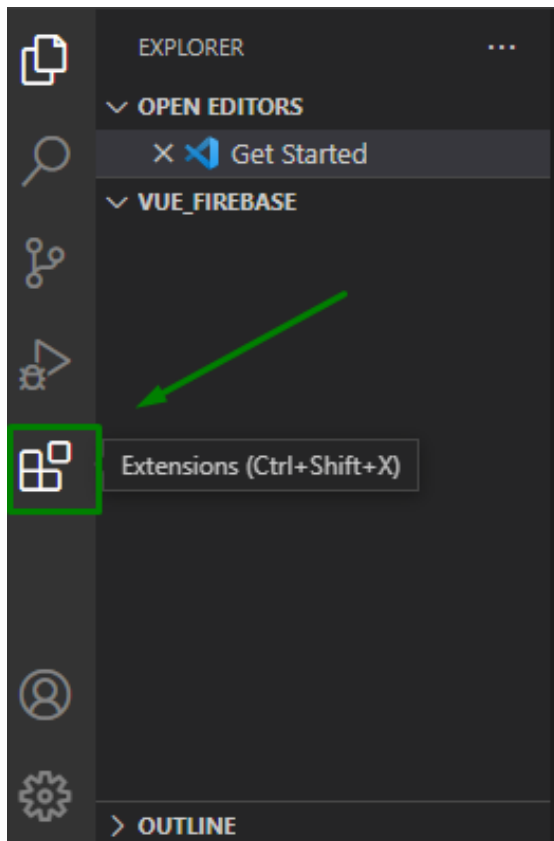
Stable Build

Other platforms and Insiders Edition

By using VS Code, you agree to its
license and privacy statement.



- Click on the Extensions
 - Install Live Server
-



Create new file **index.html**

Typing 'doc' and press 'tab' on the keyboard

index.html

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Learning Vue</title>
</head>
<body>
  <h1>Hello Vue :)</h1>
</body>
</html>
```

Right click

Click 'Open with Live Server'

Install Vetur

The screenshot shows the Visual Studio Code interface with the Extensions view open. The search bar contains 'vetur'. The extension list on the left shows several results, with 'Vetur' by Pine Wu at the top. A green box highlights this extension. The main panel displays the details for 'Vetur' (v0.35.0) by Pine Wu, showing 8,851,179 downloads and a 4.5-star rating. A green box highlights the 'Install' button, and a green arrow points to it from the right. The bottom right panel shows the 'Categories' section with 'Programming Languages' selected. The bottom left panel shows the 'Resources' section with links to 'Marketplace', 'Repository', and 'License'.

EXTENSIONS: ...

vetur

Vetur v0.35.0
Pine Wu | 8.8M | 4.5
Vue tooling for VS Code
Install

Vetur-wepy 44K | 3
Vue tooling for VS Code ...
hu2ren
Install

Vetur E 42K | 1
Vue tooling for VS Code
qiang014
Install

Vetur-SFC 1K | 5
Custom vetur build with s...
mwilski
Install

Vetur TypeSc... 5K | 5
Workaround for the perfo...
Stefan Novakovic
Install

Yunkai Vetur 1K
Vue tooling for VS Code -...
pengchong
Install

Vetur v0.35.0
Pine Wu | 8,851,179 | 4.5 (136)
Vue tooling for VS Code
Install

Details Feature Contributions Changelog

Vetur

passing v0.35.0 8.85M 4.39/5 (136)

Vue tooling for VS Code.

- vls: Vue Language Server
- vti: Vetur Terminal Interface

Categories

Programming Languages

Resources

Marketplace
Repository
License

Install Material Icon Theme

