

a

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hi

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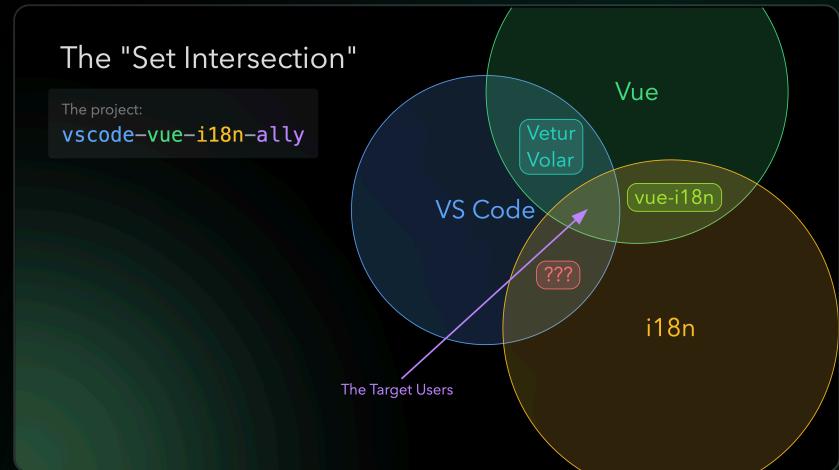
Anthony's Roads to Open Source ^{2/n}

The Progressive Path



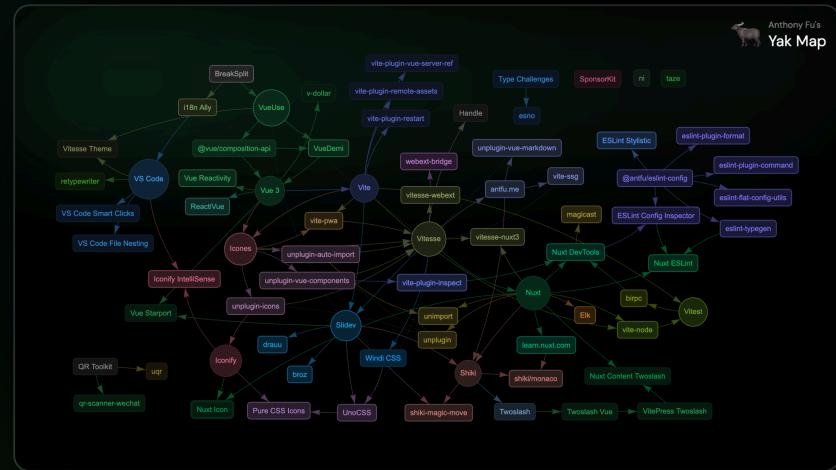
Part I

The Set Theory



Part III

Yak Shaving



Recordings on antfu.me

What is a Tool?

A tool should help you get things done *faster* and/or easier

What Makes a ~~Good~~ Tool?

General & Useful



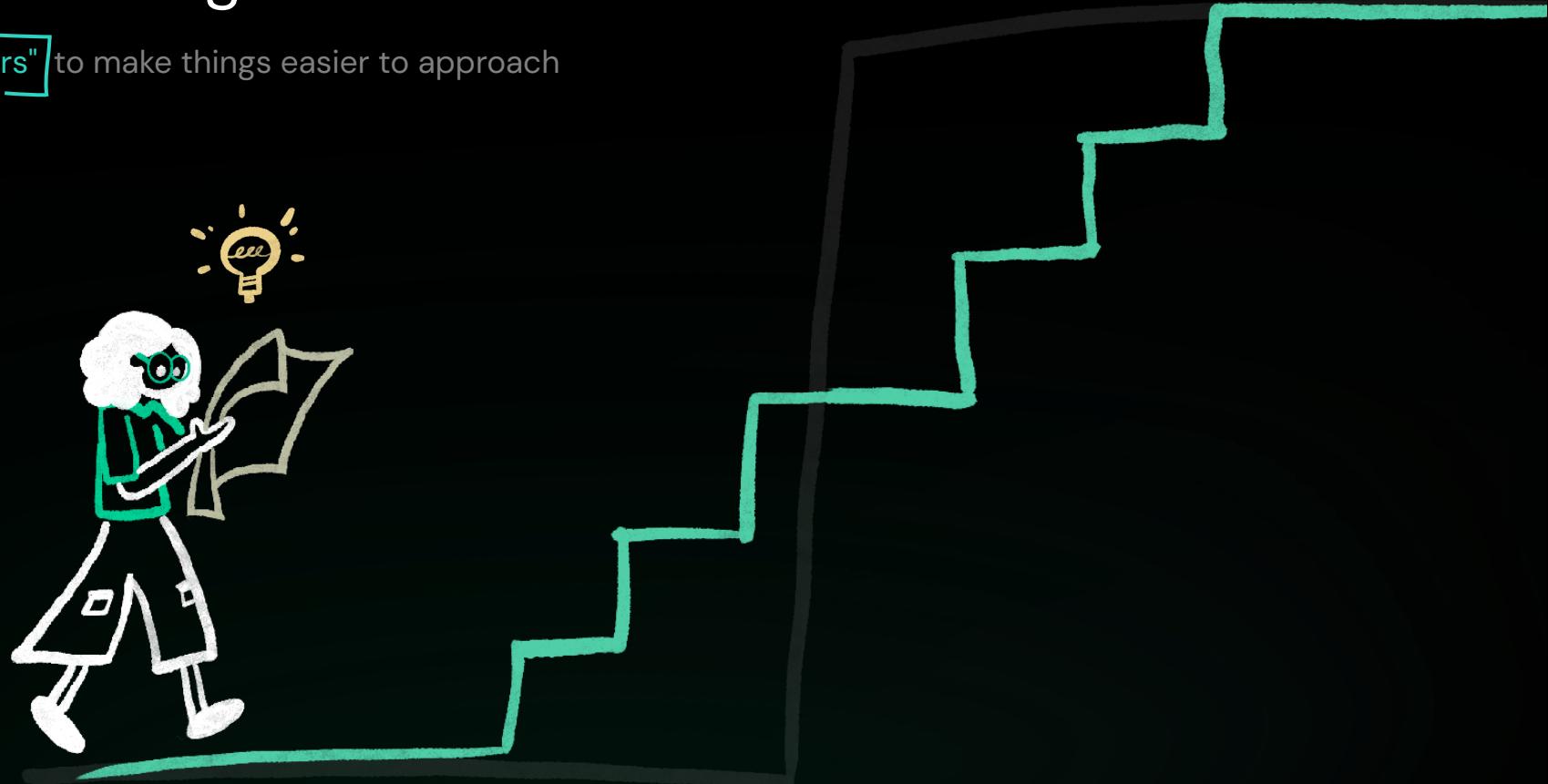
Make things *Easier!*

❖ Cost of Using a Tool

- Q Cost of Discovering → Common needs, easy to find
- ⚒ Cost of Learning → Easy to understand and get started
- ₩ Price → Usually free in Open Source! ❤️
- 💻 Cost of Adoption → Provide integrations, extensibility

What is Progressive?

The "Stairs" to make things easier to approach





The Progressive JavaScript Framework

"A framework that can grow with you and adapt to your needs."

<https://vuejs.org>

Progressive on Integrations

Vue offers multiple ways to use, for different level of integrations:

 CDN without build tools

 </> As Web Components

 Single-page application (SPA)

 Static site generation (SSG)

 Server-side rendering (SSR)

 Vue Vapor Mode *Coming soon*

Levels of Integrations

Cover different scenarios, coexist with other techs, *easy to adopt*



The Intuitive Vue Framework

"To make web development intuitive and performant with a great Developer Experience"

<https://nuxt.com>

Progressive on Onboarding

This is **all you need** to start with Nuxt:

package.json

```
{  
  "scripts": {  
    "dev": "nuxt dev",  
    "build": "nuxt build"  
  },  
  "devDependencies": {  
    "nuxt": "^3.10.0"  
  }  
}
```

app.vue

```
<script setup>  
const msg = ref('Hello, Nuxt!')  
</script>  
  
<template>  
  <h1>{{ msg }}</h1>  
</template>
```

Intuitive - Minimal knowledge required, and easy to discover new features

Progressive on Features

Starts **minimal** and **grows** with users:

- ⌚ **Have some components?** Put them in `components/` and use anywhere
- ➡ **Need routing?** Create a `pages/` directory and Vue router is set up for you.
- ⟳ **Deploy your site?** It **Just works™** with zero-config powered by  Nitro
- ☁️ **Need some server logic?** Create a `server/api/` directory to make serverless endpoints.
- ts **Want TypeScript?** Oh, you can just use it!
- chrome **PWA, SEO, i18n, RSS, etc?** We have great modules ecosystem to use in a few clicks.
- cat **Curious about more?** We have  Nuxt DevTools to inspect and analyze the internals

Grow with Users

Expose concepts & powers *progressively*



Next Generation Frontend Tooling

"We work closely with projects in the ecosystem to minimize regressions on each release"

<https://vitejs.dev>



moonrepo

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Congrats to Vite on the examples repo with new content! github.com/moonrepo/vite-examples

Vite ⚡ @vite_js

⚡ Vite 3 is out!

The Vite Team, working closely with the community, is happy to announce the next major version involved in making this release even better. vitejs.dev/blog/announcing-vite-3

7:08 PM · Jul 13, 2022



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Reply



Kilian Valkhof ✅

@kilianvalkhof · [Follow](#)

Most painless full-version upgrade of a build system ever.

Vite ⚡ @vite_js

⚡ Vite 5 is out!

Performance improvements, big cleanups, and new features preparing the ground for even more innovation from the ecosystem! vitejs.dev/blog/announcing-vite-5

4:41 PM · Nov 16, 2023



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A Typical Vite Plugin

package.json

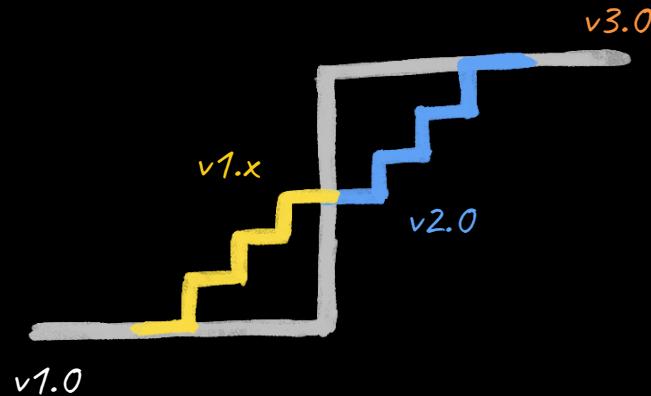
```
{  
  // ...  
  "peerDependencies": {  
    "vite": "^2.9.0 || ^3.0.0 || ^4.0.0 || ^5.0.0"  
  }  
}
```

The plugin keeps working from Vite 2 to Vite 5

Vite 2 to Vite 5
3 years in between!

Progressive on Breaking Changes

Two ways of make breaking changes easier



↗ Backward Compatibility

- Compatible with the **previous** versions
- Deprecate first, print warnings, remove later

↗ Forward Compatibility

- Compatible with the **future** versions
- Introduce the `experimental` or `future` flags
- Make future behavior opt-in today

Allow Coexistence

Provide "middle stages" for migration, coexist of legacy & new



Nuxt 4 Migration Path

- ⌚ Features are shipped in minor releases
- ∅ There are no new features for Nuxt 4
- 👉 Nuxt 4: Revisit default values
 - ➡ Opt-in Nuxt 4's behaviour in Nuxt 3 today
- ⟲ In Nuxt 4, users can still opt-back to Nuxt 3's behaviour

Vite 5 → Vite 6.0 → Vite 6.1

Vite 6 Upgrading and Rolling Plan

⚠️ We have done massive refactoring *internally*

∅ No user facing changes in Vite 6.0

✓ Vite 6.0: make sure full back compatibility

↗ Everybody upgrade to v6.0 smoothly

⚡ Vite 6.1: Start to prompting the Environment API

Recap

Progressive on  Onboarding

- ↳ Making it easy to understand and get started

Progressive on  Integrations

- ↳ Fits in different scenarios, easy to adopt

Progressive on  Features

- ↳ Starts minimal and grows with users

Progressive on  Breaking Changes

- ↳ Provide middle stages for migration

Progressive Paths

Enables users the capability of "**Divide and Conquer**"

Thank you!

Slides on antfu.me