

Ignite your Nuxt development with Layers

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< PragVue2025 />

2025-09-23

Atos EVIDEN

About me

Introduction

- Alois Sečkář, 37 years, Prague, Czechia
- Senior Application Developer at Atos/Eviden
- Originally Java background
- About 4 years with Vue
- <https://cs.vuejs.org/>
- <https://pragvue.com/>



`https://alois-seckar.cz`

`https://github.com/AloisSeckar`

Nuxt Layers

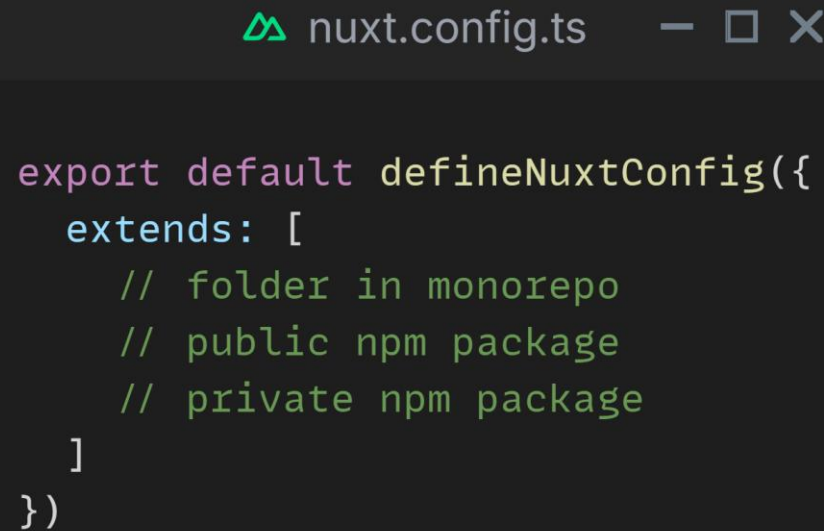
Inheritance in Nuxt

- Create basic Nuxt application with common functionality
- Then extend another Nuxt app from it
- Share pages, components, utils, middleware, etc.
- Files are inherited
- Same files are overwritten
- Configs are defu-merged
- Monorepo projects / NPM packages
- <https://nuxt.com/docs/4.x/getting-started/layers>
- <https://nuxt.com/docs/4.x/guide/going-further/layers>



Nuxt Layers

Inheritance in Nuxt



```
nuxt.config.ts  -  □  ✕  
  
export default defineNuxtConfig({  
  extends: [  
    // folder in monorepo  
    // public npm package  
    // private npm package  
  ]  
})
```

codesnap.dev

Nuxt Layers - example

Inheritance in Nuxt

- Basic “Commons Nuxt” library layer
- UI and data manipulation library
- Modules extending from it
- (containers - static Nuxt build with Go server)

Filtr

Číslo předmětu:

Název předmětu:

Typ předmětu:

Skupina předmětu:

Období:

☐ Nedávno přidáné

Vyčistit

Vyhledat

Číslo předmětu	Název předmětu	Typ předmětu	Skupina předmětu	Datum vytvoření	Období	Dokument	Počet postrevizí	Celková částka	Plán	Autor
1	Testovací multipart podnětt	TypUI	NEMOCNICE	13.05.2024	2022-2027	abc.pdf	17	993.09	ANO	AtosMstr
2	AAA	COVID	NEMOCNICE	13.05.2024	AAAAB		4	0	ANO	jirm100
3	Podnět z UI	COVID	NEMOCNICE	13.05.2024	Test	ěščřýáíéúůš.pdf	0		ANO	AtosMstr
4	Podnět s typem a skupinou	TypUI	NEMOCNICE	13.05.2024	2222		0		ANO	AtosMstr
5	Upravený nahrávací formulář	TypUI	SkupinaUI	14.05.2024	Volný text	mini2.pdf	0		ANO	AtosMstr
6	AAA	COVID	NEMOCNICE	03.06.2024	AAAA		0		ANO	AtosMstr
8	BBBB	TypUI	SkupinaUI	14.05.2024	2223		0		NE	AtosMstr
9	BBBB	TypUI	SkupinaUI	14.05.2024	2223		0		NE	AtosMstr
10	Podnět č. 10	COVID	NEMOCNICE	14.05.2024	2024-2025		5	0	ANO	AtosMstr
11	Další data	COVID	NEMOCNICE	14.05.2024	2024-2025		0		NE	AtosMstr
12	Jiný podnět	COVID	NEMOCNICE	14.05.2024	2024-20254		0		NE	jirm100
13	Těndop	COVID	NEMOCNICE	14.05.2024	2024-20254		0		ANO	AtosMstr
14	Ještě jeden	COVID	NEMOCNICE	14.05.2024	2024-20251		0		ANO	AtosMstr
15	Něco něco něco	COVID	NEMOCNICE	14.05.2024	2024-20251		0		ANO	AtosMstr
16	Testovací multipart podnětt	COVID	NEMOCNICE	14.05.2024	2024-2025		0		NE	AtosMstr

Nalezeno záznamů: 45

Detail

Editovat předmět

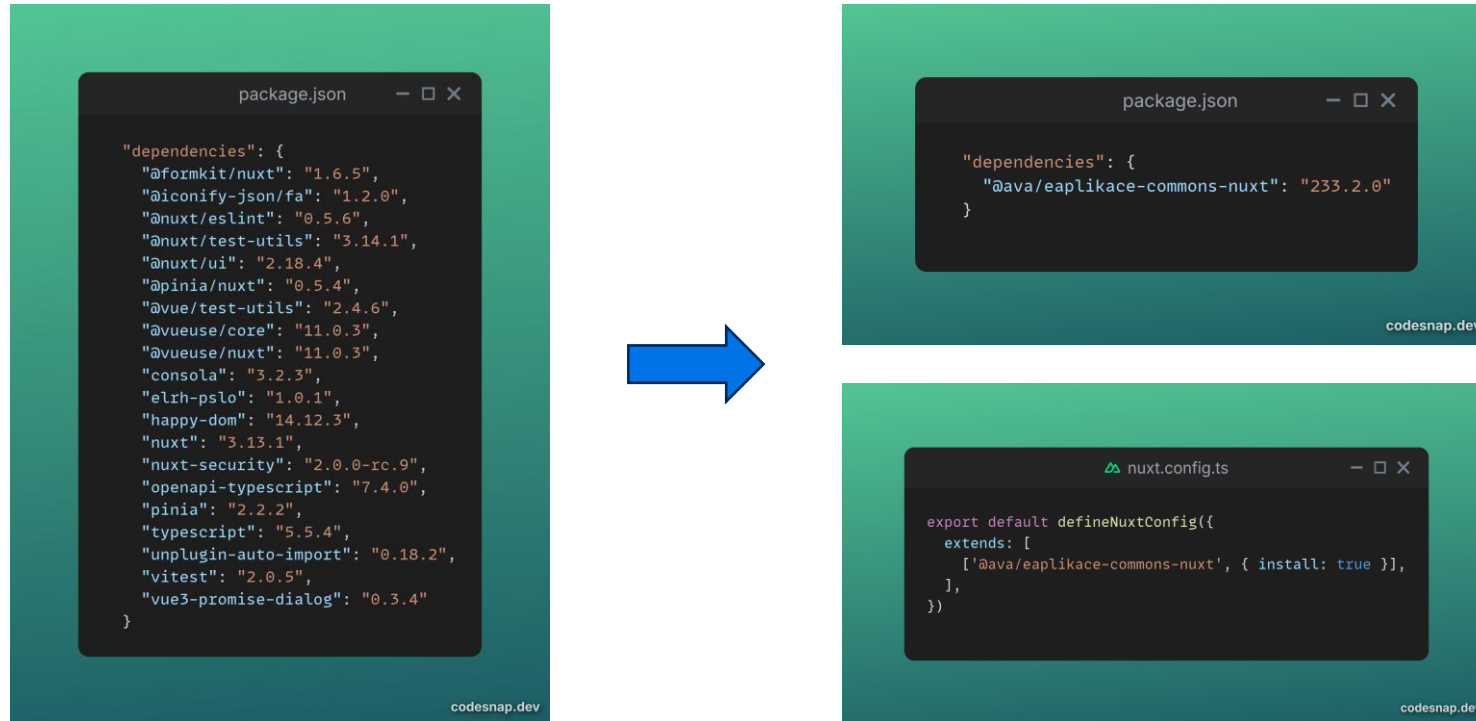
Aktualizovat

Export do XLSX

Nuxt Layers – going further

Inheritance in Nuxt

- You can also inherit dependencies!

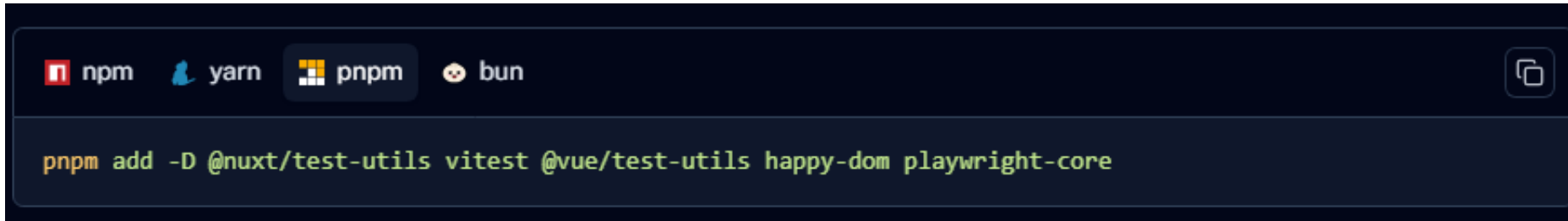


- npm (with `install=true` option) / pnpm + `shamefully-hoist=true`

Demo 1 – Nuxt Spec

Demo time!

- Base layer for simplified testing in Nuxt
- Why?

A terminal window with a dark background. At the top, there is a bar with icons for npm (red square), yarn (blue bird), pnpm (yellow grid), and bun (red circle). The pnpm icon is highlighted. Below this bar, the command `pnpm add -D @nuxt/test-utils vitest @vue/test-utils happy-dom playwright-core` is entered in a light green monospace font. A copy icon is visible in the top right corner of the terminal window.

```
pnpm add -D @nuxt/test-utils vitest @vue/test-utils happy-dom playwright-core
```

<https://nuxt.com/docs/4.x/getting-started/testing>

- How?

<https://github.com/AloisSeckar/nuxt-spec>

Demo 1 – Nuxt Spec

Demo time!

1) Create new Nuxt app

```
pnpm create nuxt@latest demo-nuxt-spec
```

2) Setup Nuxt Spec via CLI

```
pnpm dlx nuxt-spec
```

3) Re-install

```
pnpm install
```


Demo 2 – Nuxt Ignis

Demo time!

- “Optionated” base template layer
 - Configuration through environment variables
 - Opt-out core features + Opt-in extra features
-
- <https://nuxt-ignis.com/> (docs)
 - <https://github.com/AloisSeckar/nuxt-ignis> (sources)



Demo 2 – Nuxt Spec

Demo time!

1) Create new Nuxt app

```
pnpm create nuxt@latest demo-nuxt-ignis
```

2) Setup Nuxt Ignis via CLI

```
pnpm --package=nuxt-ignis dlx setup
```

3) Re-install

```
pnpm install
```

Demo 2 – Nuxt Ignis

Demo time!

- **Why it works?**
- `nuxt.config.ts` must be static at build time
- But can be shaped before that
- Environment variables via `process.env`
- <https://github.com/AloisSeckar/nuxt-ignis/blob/main/core/features.ts>



Demo 2 – Nuxt Ignis

Demo time!

- (My) websites using Nuxt Ignis already:
 - <https://alois-seckar.cz/> - personal homepage
 - <https://master-coda.cz/> - personal blog
 - <https://pragvue.com/> - conference landing page
 - <https://wbsc-scoring.netlify.app/> - baseball scoring visualization
 - <https://krc-historie.cz/> - history of my hometown

Considerations

What's next?

- Still experimental
 - Is it even the right way?
 - What about the bundle sizes?
 - How to make it versatile enough?
 - How to make it stable enough?
-
- What to YOU think?
-
- Hacktoberfest time!



Thank you!

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