Ignite your Nuxt development with Layers

Alois Sečkár

AtoS EVIDEN

About me
Introduction

- **Alois Sečkár**, 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
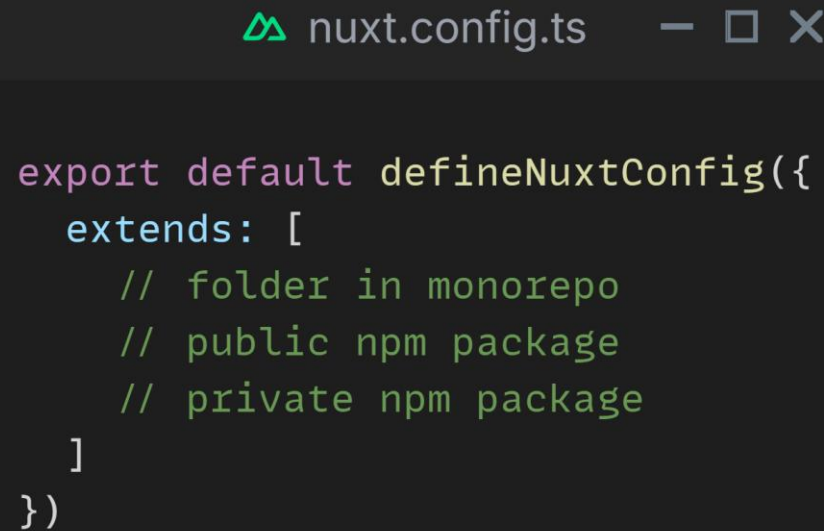
https://github.com/AloisSeckar

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`

AtoS   EVIDEN

Nuxt Layers
Inheritance in Nuxt


```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
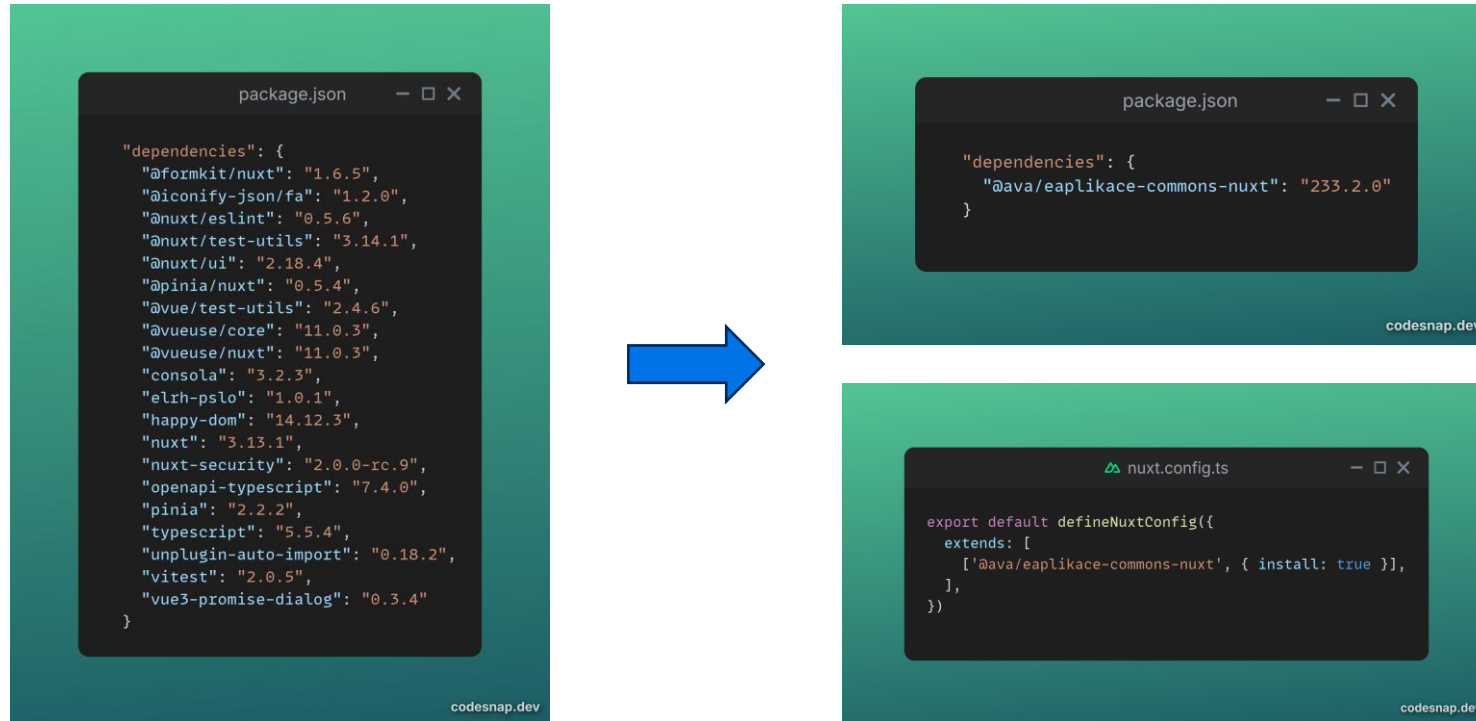- Modules extending from it
- (containers - static Nuxt build with Go server)

Nuxt Layers – going further
Inheritance in Nuxt

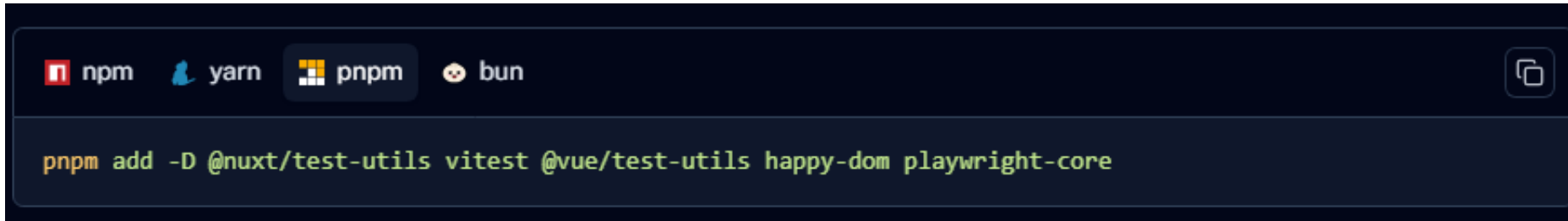- You can also inherit dependencies!

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

Demo 1 – Nuxt Spec

Demo time!

- Base layer for simplified testing in Nuxt

- Why?

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
```

AtoS   EVIDEN

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

AtoS EVIDEN

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!

alois.seckar@atos.net

Atos   EVIDEN