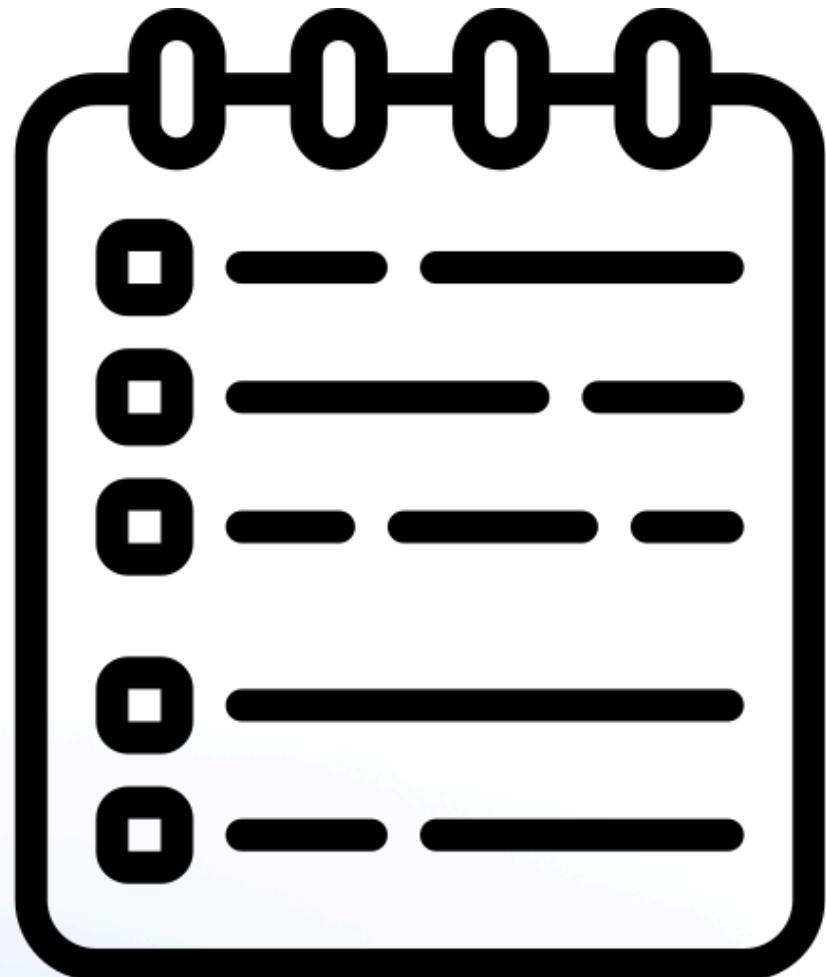




Let's put Cristal everywhere

How to embed wikis in heterogeneous web platforms

Manuel Leduc - R&D Engineer - [XWiki SAS](#)
FOSDEM - January 31, 2026



Agenda

- #1 Introduction
- #2 Cristal
- #3 Cristal in Nextcloud
- #4 Other news
- #5 Conclusion

#1 Introduction

XWiki SAS

- French & European independent company, est. 2004
- Self-funded, ~6M€ sales in 2024
- 75 employees in Paris and Iași (Romania)
- 2 software tools: **XWiki (LGPL) & CryptPad (AGPL)**
 - International community
 - 100% Open Source
- Services: support, training, consulting, hosting in the EU

#1 Introduction

The team



Ludovic Dubost

CEO & Product Owner



Vincent Massol

CTO & Product Manager



Manuel Leduc

Tech Lead



Pauline Bessoles

Product Owner



Thiago Krieck

UX Designer



Pierre Jeanjean

Developer



Marius Dumitru

Florea

Developer



Clément Eraud

Developer



XWiki team &

XWiki Community

Wiki Experts

#2 Cristal

#2 Cristal

XWIKI

+ New Page

> Help

Home

Menu

Notes of the day

> Sandbox

> XWiki

Notes of the day

XWiki.Admin edited on Mon, Jan 26, 2026 4:39 PM

• [Producing Open Source Software](#) - Community, governance, sustainability

- skimming atm

• [The Cathedral & the Bazaar](#) - Classic OSS philosophy

- finished today, better than I thought initially

• [Crash of the Heavens](#) - Only Military Mission to Rescue Europe's Jews During World War I

- started, seems good

Attachments History

Attachment*

Browse... No file selected.

Upload

Name	Mime Type	Size	Date	Author
134825.jpg	image/jpeg	270.7 Kb	Mon, Jan 26, 2026 4:32 PM	XWiki.Admin
1769082061762-357.png	image/png	214.8 Kb	Mon, Jan 26, 2026 4:32 PM	XWiki.Admin
224003984.jpg	image/jpeg	170.9 Kb	Mon, Jan 26, 2026 4:32 PM	XWiki.Admin
8263468.jpg	image/jpeg	158.1 Kb	Mon, Jan 26, 2026 4:32 PM	XWiki.Admin

bpifrance

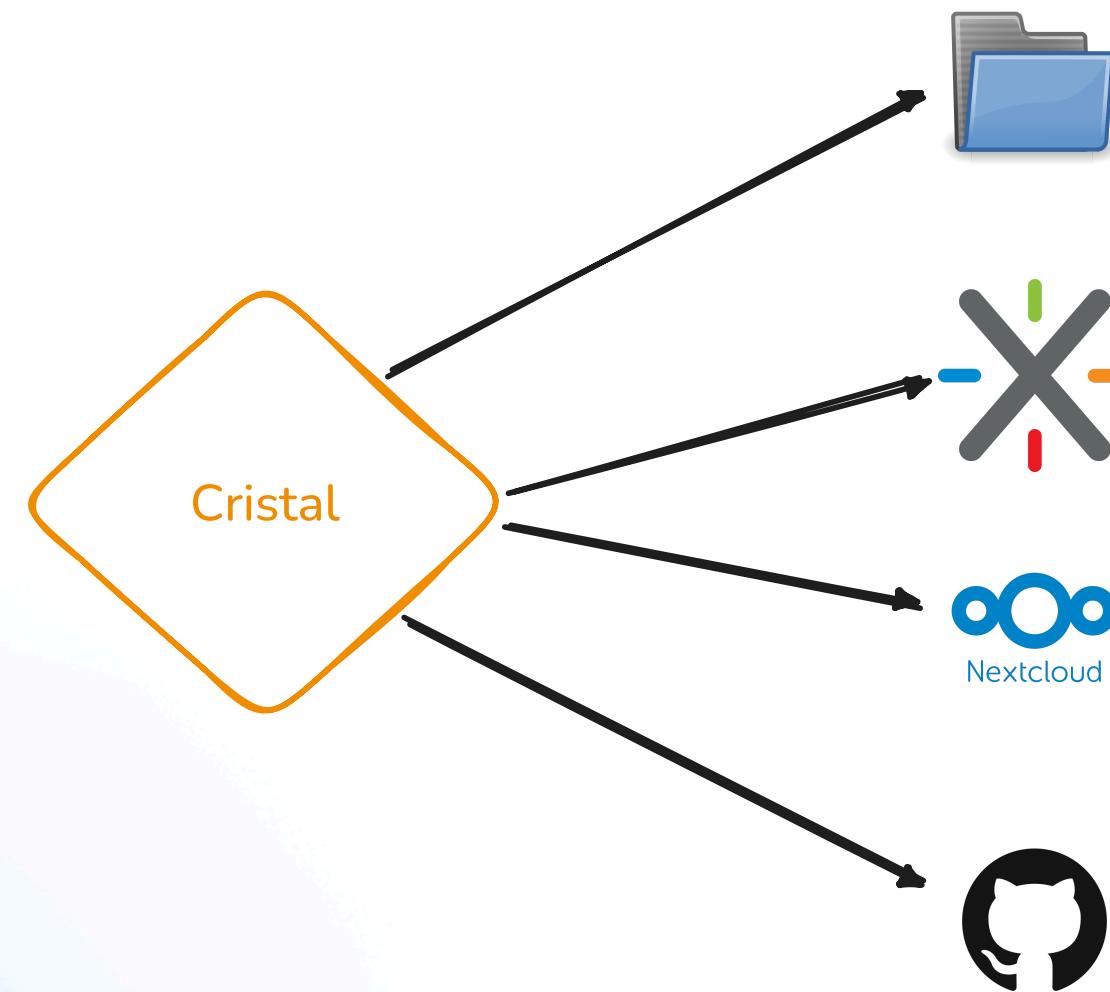
#2 Cristal

Motivations

- Need for a fresh tech stack
 - Vue
 - Typescript
 - Modules
- Opportunity to do more
 - Offline mode support
 - Extended real-time support

#2 Cristal

Multi Sources



#2 Cristal

Multi Distributions

	Front	Back
Embedded web service		mycristal.myorg.com
Standalone web page	mycristal.myorg.com	wiki.myorg.com
Desktop app (Electron)	∅	wiki.myorg.com file:///~/mywiki/

#2 Cristal

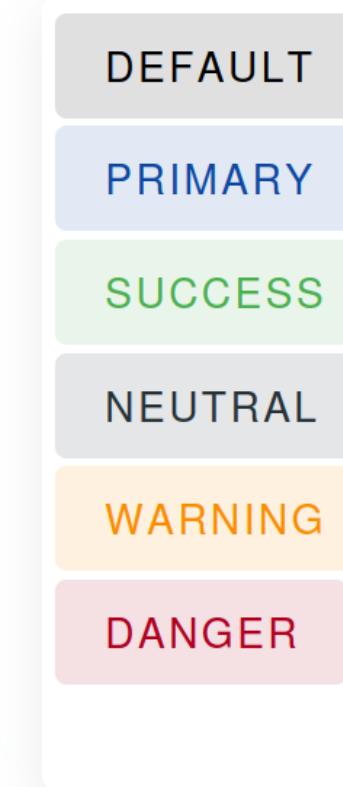
Design System(s)

Code

```
<x-btn variant="default">default</x-btn>
<x-btn variant="primary">primary</x-btn>
<x-btn variant="success">success</x-btn>
<x-btn variant="neutral">neutral</x-btn>
<x-btn variant="warning">warning</x-btn>
<x-btn variant="danger">danger</x-btn>
```



Vuetify



Shoelace



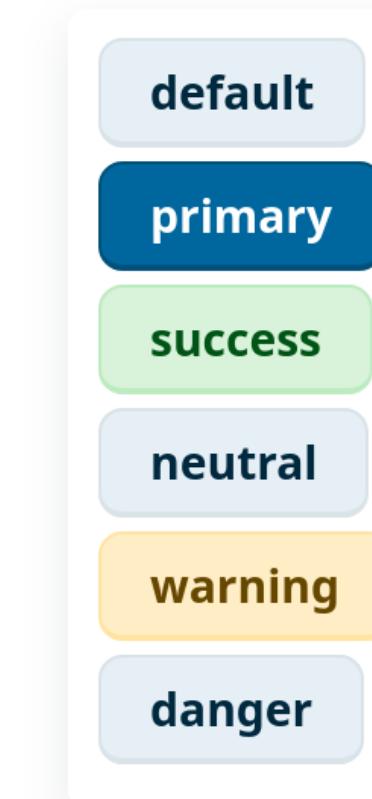
#2 Cristal

Nextcloud Design System

Code

```
<x-btn variant="default">default</x-btn>
<x-btn variant="primary">primary</x-btn>
<x-btn variant="success">success</x-btn>
<x-btn variant="neutral">neutral</x-btn>
<x-btn variant="warning">warning</x-btn>
<x-btn variant="danger">danger</x-btn>
```

Nextcloud



#2 Cristal

Features

- Rich editor (Blocknote)
- Navigation
- Attachments
- History

But matching the source capabilities

#3 Cristal in Nextcloud

#3 Cristal in Nextcloud

Why?

- No introduction needed for Nextcloud.
- Has an extension mechanism (<https://apps.nextcloud.com/>)

#3 Cristal in Nextcloud

Alternatives

	BrewMemo	Notes	Collectives	Cristal
Nested Pages	✗	✗ partial, 2 levels only	✓	✓
Attachments	✗	✗ but can link to any file	✗ but can link to any file	✓ but only to attachments of the wiki
Internal Links	✗	✗ but can link to any file or folder	✗ but can link to any file or folder	✓ but only to pages from the wiki
Save to drive	✗	✓	✓	✓
Standard Markdown				
Templates	✗	✗	✓	✗

#3 Cristal in Nextcloud

Technical overview (1/3)

Connection to the source

- File access and update through webdav
- Search with webdav
- Authentication through Nextcloud (embedded)

#3 Cristal in Nextcloud

Technical overview (2/3)

Design System Integration

#3 Cristal in Nextcloud

Technical overview (3/3)

Nextcloud Store Publication

- Pleasant and well documented experience
- Easily automated with GitHub Actions

#4 Other news

#4 Other news

Macros

Dynamically rendered content, manipulable as blocks in the rich editor.

Quick action

The screenshot shows a Cristal rich editor interface. At the top, it says "Home" and "XWiki.U1 edited on Wed, Dec 3, 2025 3:04 PM". Below the title, there's a "Welcome to your wiki" section with text about organizing knowledge. Under "The basics", there's a "Basic blocks" sidebar with options like "Numbered List" and "Macros". A red box highlights the "Macros" option. A modal window titled "Box for an error message" is open, containing the text "This is an error message". At the bottom right of the editor, there's a "CLOSE" button.

Content edition

This screenshot shows the same Cristal rich editor interface as the previous one, but in edit mode. The "Edit" button at the top right is highlighted. The "Box for an error message" macro is now a red-bordered box with the text "This is an error message". The rest of the page content and sidebar are visible.

Display in view mode

This screenshot shows the Cristal rich editor in view mode. The "Edit" button is no longer highlighted. The "Box for an error message" macro is displayed as a red-bordered box with the text "This is an error message". The page content and sidebar are visible.

- From a single macro definition.
- By extension.

Feedbacks!!!

Help us build your next generation wiki.

Please try the extension and fill this feedback form.





Thanks !



FOSDEM meetup registration (Tonight)

Key points:

- Modular and extensible
- Embeddable in heterogeneous applications (XWiki, Nextcloud, Electron)
- One-click installation in Nextcloud



Useful links:

- cristal.xwiki.org
- cristal.demo.xwiki.com
- apps.nextcloud.com/apps/cristal (**beta**)