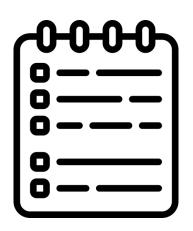
#### 1 JAN 2025 FOSDEM'25 x X-WK

#### Cristal - A flexible Wiki UI



Manuel Leduc, XWiki SAS



# Agenda

- **#1** Organization & Team
- **#2** Product
- **#4** Features
- **#3** Design & Architecture
- **#5** Roadmap
- #6 (Live) Demo



#### **#1** Organization & Team

#### XWiki SAS



French & European independent company, est. 2004



70 employees in Paris and Iași (Romania)



Self-funded, ~6M€ revenue in 2024



2 Open Source software: XWiki (LGPL) & CryptPad (AGPL) with an international community, 100% Open Source





Engaged for digital sovereignty in EU



Services: Support, Training, Consulting, Hosting in the EU

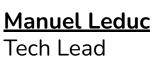


### The team



Ludovic Dubost CEO & Product Owner







**Pierre Jeanjean** Developer



Vincent Massol CTO & Product Manager



**Thiago Krieck** UX Designer



**Marius Dumitru Florea** Developer



XWiki team & XWiki Community Wiki Experts

#### **#2** Product

### Cristal Beta 0.14

- A new project by the XWiki team
- New UI with modern technologies
- Compatible with XWiki but not only
- One release per month (0.x)

	Home / Main
+ NEW PAGE	Home
Home	XWiki.superadmin edited on Thu, Jan 23, 2025 11:01 AM
<ul> <li>Sandbox</li> <li>Sandbox Test Page 1</li> <li>Sandbox Test Page 2</li> </ul>	Welcome to your wiki Cristal is a new tool to organize your knowledge. A <i>wiki</i> is organized in a hierarchy of <i>pages</i> .
Sandbox Test Page 3	The basics
► XWiki	To make the most out of your wiki, log-in and: Use the button above to <i>edit</i> this page and start customizing your wiki to your needs. Use the <i>new page</i> button to add more pages to your wiki and create the <i>hierarchy</i> that best organizes your content. Use the breadcrumbs located above the title to <i>navigate</i> inside your pages. It's easy to get lost in a big wiki without them. You can also use the <u>Sandbox</u> for more demo content and generally a place to experiment with your wiki's features.
	ATTACHMENTS HISTORY
	No attachments.



Sources: <u>github.com/xwiki-contrib/cristal/</u> Documentation: <u>cristal.xwiki.org</u> Matrix channel: <u>#cristal:matrix.xwiki.com</u>

### Knowledge is Everywhere

Knowledge is not only in wikis, but also in other software, at least in limited way.

So it is important to be able **to collaborate and embed.** 

- 1. Difference sources of knowledge
- 2. Knowledge base concepts and UIs
- 3. Migrate knowledge gradually to wikis while preserving familiar concepts and UIs



### **User Interface (View)**

Vuetify

₩IKI ۞ Log-in	Home > Main	≡ <b>X·WIKI</b> ⊗ LOG-IN	Home / Main		
+ New Page	Home	+ NEW PAGE	Home		
Home	XWiki.superadmin edited on Thu, Jan 23, 2025 11:01 AM	Home	XWiki.superadmin edited on Thu, Jan 23, 2025 11:01 AM		
✓ Sandbox Sandbox Test Page 1 Sandbox Test Page 2 Sandbox Test Page 3 > XWlki	Welcome to your wiki Cristal is a new tool to organize your knowledge. A <i>wiki</i> is organized in a hierarchy of <i>pages</i> .	<ul> <li>✓ Sandbox</li> <li>Sandbox Test Page 1</li> <li>Sandbox Test Page 2</li> <li>Sandbox Test Page 3</li> </ul>	Welcome to your wiki Cristal is a new tool to organize your knowledge. A wiki is organized in a hierarchy of pages. The basics		
	The basics	► XWiki	To make the most out of your wiki, log-in and: Use the button above to <i>edit</i> this page and start customizing your wiki to your needs.		
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	that best organizes your content.		experiment with your wiki's features.		
	Use the breadcrumbs located above the title to <i>navigate</i> inside your pages. It's easy to get lost in a big wiki without them.		ATTACHMENTS HISTORY		



#### **User Interface (Edit)**

≡ <del>%</del> WIKI	۵	Home / Main
		LAYOUT
+ NEW PAGE		46 Blockquote
Home		Orde block     n Thu, Jan 23, 2025 11:01 AM     1
<ul><li>Sandbox</li><li>XWiki</li></ul>		H1 Heading level 1 ) Ur wiki
		rganize your knowledge. A <i>wiki</i> is organized in a H2 Heading level 2
		H3 Heading level 3
		Use the button above to edit this page and start customizing your wiki to your
		needs.
		Use the new page button to add more pages to your wiki and create the
		hierarchy that best organizes your content.
		Use the breadcrumbs located above the title to <i>navigate</i> inside your pages. It's
		easy to get lost in a big wiki without them.
		You can also use the Sandbox for more demo content and generally a place to
		avaavimeet with very wild's feetures
		Saved CLOSE

Vuetify

#### Key concepts



Embeddable



Adaptable



Abstract Design System



#### **#3** Feature

### **Basic wiki features**

View and edit pages

- Page move/rename
- Navigation
- Document tree
- Breadcrumb



Authentication





View/Edit rights











<del>X</del>-



<del>X</del>-



# 



Images

Links with autocompletion - X-

Blocks

Slash Actions (a.k.a Quick Actions)

- Markdown serialization
- Realtime

Tiptap



### **Cristal Specific**











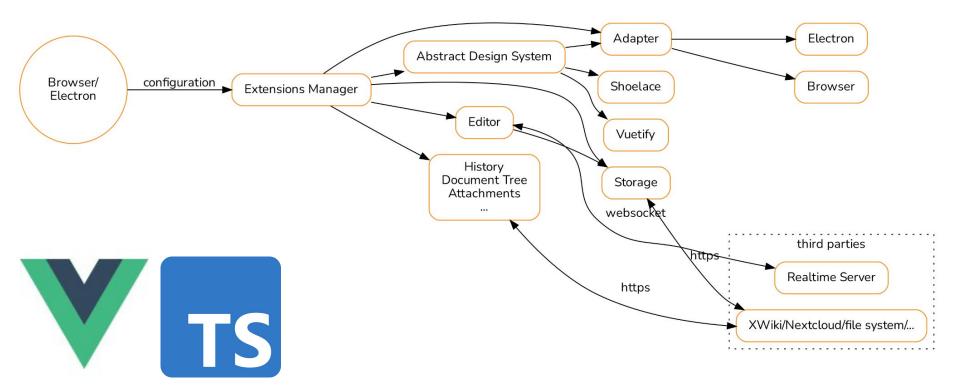






#### **#4** Design & Architecture

#### **#0** Architecture Overview





#### **#1** Component-based Front-End

@injectable()



class DefaultAttachmentPreview implements AttachmentPreview {
 constructor(
 @inject("StorageProvider") private readonly storageProvider: StorageProvider
 ) {}
 // ...

Inversify.js

- Decoupling between usage and implementation
- Allows feature discovery
- Allows feature replacement



### **#2** Abstract Design System

#### Vuetify

DEFAULT	PRIMARY	SUCCESS	NEUTRAL	WARNING	DANGER	TEXT
---------	---------	---------	---------	---------	--------	------

#### Shoelace



- Type Safe usage and definition through well defined UI components APIs
- Possibility to add new design systems by extension

https://cristal.xwiki.org/xwiki/bin/view/UIComponents/

<**x-btn** variant="success"> Success </**x-btn**>

type BtnProps = {
 variant?:
 | "default"
 | "primary"
 | "success"
 //...
;

};



### **#3** Backend Specific UI

+ New Page   admin edited on Mon, Jan 27, 2025 5:49 PM   admin edited on Mon, Jan 27, 2025 5:49 PM   Welcome     + New Page     Home   > Sandbox   > XWiki	XWiki superadmin edited on Thu, Jan 30, 2025 5:04 PM     Image: Comparison of the second
This is a new Cristal wiki. You can use it to take your own notes. You can also create new pages. Enjoy! Attachments Attachments I forowse No file selected.	Use the new page button to add more pages to your wiki and create the hierarchy that best organizes your content.         Use the breadcrumbs located above the tille to navigate inside your pages. It's easy to get lost in a big wiki without them.         You can also use the Sandbox for more demo content and generally a place to experiment with your wiki's features.         Attachments       History         This page has 7 versions stored.       1/30/25, 504 PM by superadmin         iiii 1/30/25, 504 PM by superadmin       iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii

Nextcloud

XWiki



#### **#5** Roadmap

## **#5.1 MVP Finalization**

- Ongoing (v0.15) <u>https://cristal.xwiki.org/xwiki/bin/view/Roadmaps/</u>
  - Search
  - Offline mode for all backends
  - Page Source editing
- Planned
  - Users management
  - Rights management
  - Support for more syntaxes
  - Client side Macro support
  - Comments





## #5.2 Post MVP

- Extracting the editor
- Structured data editing
- Scripting
- Support for XWiki legacy (extensions, skins, xwiki syntax, server side macros...)
- Embedding (Nextcloud, Jamespot)



### #6 (Live) Demo

#### **Cristal (frontend)**

https://cristal.demo.xwiki.com/

#### XWiki (backend)

https://cristal-backend.demo.xwiki.com/

#### Electron

https://cristal.xwiki.org/xwiki/bin/view/GetStarted/#HDesktop

Join the after party! SCAN TO REGISTER





POWERED BY





## Thank you everyone!

#### See you at the K1-B-3 stand

cristal.xwiki.org