



# Privacy by design: DIY Marp(X) AI presentations without sending data to third parties

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... and why you should use them too!

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# A few **questions** first

- Who here would consider themselves a **developer** ?
- Experience with **code editors / IDEs** ?
- **More comfortable** with editor than with other software ?
- Does **text** just feel faster/more efficient at this point?



# Markdown


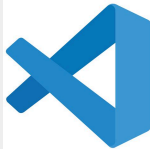
(It's everywhere - you've most likely dealt with it at least once)

```
# Main title
## Heading 2 - You can make:

- italic text
- bold text
- ~~strikethrough~~
- lists
- [links](http://example.com)
- ![images](image_name_here)
- > Quotes
```

# Why not write **presentations** as text ?

Introducing:  Marp (Yuki Hattori)

- Markdown presentation ecosystem
- Comes as a  command line tool or a  VSCode editor extension
- Technically Just A Web Page™  $\implies$  can write HTML/CSS if you want to customize
- MarpX (Paolo Cunha) offers high quality ready-to-use themes
- If you know Markdown/HTML/CSS: No need to learn (yet another) tool!

# Collaborating with others / keeping track of versions ?

"Well surely the editor can't do *that*", I hear you say

- All the presentations are **text-based** versions of a file tree
- We need a tool to maintain **versions** of a text-based file tree...

- Ever heard of   ?

- We already have a **tool** to collaborate on versions of text-based projects!

# How do we make sure data is **safe** from big companies?

- There *are* online platforms like GitHub for this (but: this defeats the whole purpose)
- It's 2026, and servers are pretty cheap
- You can set up your own infrastructure in an afternoon
  - (less than 100 lines of **docker-compose.yml**)

# One step further: hosting services on your own infrastructure


- I won't tell you how to set it up (plenty of guides online)
- TL;DR: **On pushing changes → Auto-Render and Upload**
- Here are some tools I'm using for my personal setup:

Requirement	Possible tool
Server	Any VPS will do
Simple software deployment	Docker
HTTPS support	Caddy
Git collaboration	Gitea
Presentation hosting	Git-Pages
Automated deployment	Gitea Actions

# ...isn't this really **expensive**, though?

- Not really!
- Domain name: **~10 EUR/year**
- 24/7 VPS (200GB Storage, 6 vCPUs, 12GB RAM): **6.72 EUR/month**
  - Also hosting other services on it and not even at capacity
  - I use Contabo, but Hetzner/OVH/Hostinger also work
- *it's all yours, no need to worry about your data being accessed by third parties!*
- Privacy does have a price, but so does exposing your personal data
  - **Which one are you willing to pay?**

## ...wasn't this supposed to **integrate LLMs** as well?

- It can be done as well!
- Head start when hosting models: **Ollama** (from Ollama Inc.)
- Automatically handles the download and execution of open models locally
-  **Works even better when handling content, since everything is text-based !**
- We can integrate this into our IDE of choice and never have to worry about our data being sent to anyone!

# Pros and cons from experience

## Pros

- Enhanced privacy
- Very flexible if you know webdev
- No need to leave the traditional dev toolset
- Open-Source community tools, no dependency on a specific company
- Actually know what you're setting up

## Cons

- Steep learning curve
- Hard to collaborate with non-technical people
- Need to be comfortable with text-based tools
- Theme can be limiting if not chosen correctly

# Conclusion

- Presentation software and AI often feels "unreachable" and only hostable if you're a company and have the resources for it
- It doesn't have to be that way!
- Don't contribute to that narrative  $\implies$  De-mystify the topic!
- *Your* data belongs to *you*; own it!

# References

- [Marp](#)
- [MarpX Themes](#)
- [□](#)

# This presentation is online too!

PDF



HTML



Repository



```
wget https://pages.ct.cozytren.ch/m1s2-eng-presentation/presentation.pdf  
git clone https://gitea.ct.cozytren.ch/romane/m1s2-eng-presentation
```