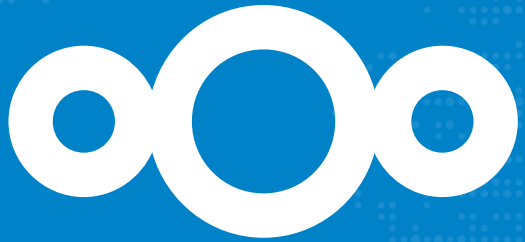

Nextcloud Text

Julius Härtl
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Nextcloud Text

- Collaborative text editing
- Focus on simplicity
- Open format
- Support for rich text files using markdown files
- Plain text editing
- Resolving conflicts

a few seconds ago

Project Alpha, Oct 16 2019

Define *Project Alpha* - see the website

Todo:

- finish plan
- **Check up with Camila**

As we said last time:

> let's get this thing going!

The document has been changed outside of the editor. The changes cannot be applied.

vor ein paar Sekunden

Hello world 123345345

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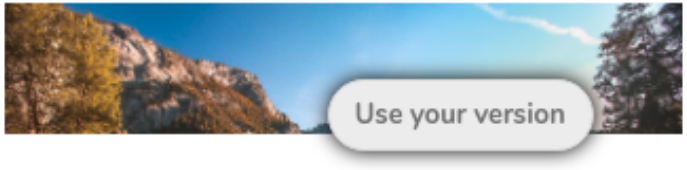

Hello world

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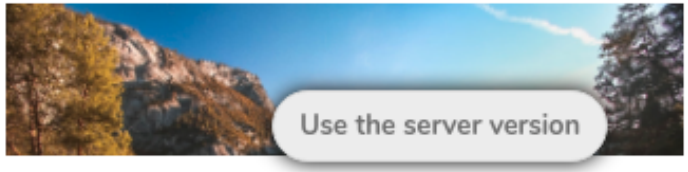

tiptap/ProseMirror

- tiptap is a renderless rich-text editor
- ProseMirror is a framework for building rich text editors
- VueJS
- Strong foundation

Document format

- Document tree
- Nodes
- Marks

```
{
  "type": "doc",
  "content": [
    {
      "type": "paragraph",
      "content": [
        {
          "type": "text",
          "text": "This is some inserted text. "
        }
      ]
    }
  ]
}
```

Document format

- Document tree
- Nodes
- Marks

```
{
  "type": "text",
  "marks": [
    {
      "type": "bold"
    }
  ],
  "text": "inserted"
},
```

Collaboration

- Tranformation of the document
- Clients rebase changes to server state
- Smart polling
- Possible other sync backends

Collaboration

- Server has version 1
- User changes something
- Server has changed to version 2 in the meantime
- User cannot send the changes (not based on the latest version)
- Client applies changes on top of the new server version
- User retries to send them
- Server applies the changes and increases version to 3

What's next

- Adding new formatting options
- Bringing rich editing to other apps
- Mobile editing

- Contributions are very welcome