

# Why Syncting

Why was [Syncting](#) picked over the many alternatives?

## Context

Please see: [Files vs web pages](#). In the context of WikiSuite, we already have file management

- [Tiki File Galleries](#), which provide virtual folders and sub-folders which are web accessible. This abstraction layer permits multiple features: archives (previous versions of a file can still be accessed), check-in / check-out / lock, etc. and it leverages Tiki's multitude of built-in features: search (including file content), share secret link to file via email, permissions, etc. It's even possible to use as a [field type](#) in [Tiki Trackers](#), a powerful and flexible database, form and report creator.
  - [WebDAV](#) permits to edit files as if they were on your desktop (avoiding the need to download files, edit them locally, and re-upload). However, it's not suitable when you have a set of files generated by an external system or that need to maintain internal links. Please see enhancement being planned: <https://dev.tiki.org/File-Gallery-direct-file-mapping-mode>

Even with all these features, one important one was missing: the capability to sync between Tiki and devices (laptop or mobile phone). Thus, an extensive analysis of all available Free / Libre / Open Source software was conducted, and Syncting was deemed the best component to complete the feature set. Here is the plan: [Syncting in WikiSuite](#)

Beyond satisfying the usual [component criteria](#), Syncting's [P2P](#) design is awesome.

- P2P by default, so same software (it's cross-platform) on all nodes. Central server is just a convention.
  - This is much less work than having different code bases to manage
  - It is designed from the ground up to sync any number of nodes. So a node can get data updates from any other node.
- Syncting is written in [Go](#), which has fantastic performance (which is important when you have a lot of files)
- Default interface is a [Bootstrap](#) admin panel, and clients can make alternate interfaces such as [Syncting-GTK](#) for better integration with operating system.
- <https://github.com/syncting/syncting/blob/master/GOALS.md>
- While Syncting is P2P (and thus, shared folders contain everything), there is a way to [browse Syncting folders and cherry-pick files to download](#). This makes it more like a client-server.
- [Device discovery: Syncting can find other devices even if they change IP or are behind a firewall](#)

## Why not ownCloud / Nextcloud

- Way too much overlap between Tiki Wiki CMS Groupware and ownCloud / Nextcloud. It's way less work to add / improve any missing functionality in Tiki than to deal with overlap.
- The server and clients are different code bases, which is bigger long term workload.
- Can't do P2P sync. Everything needs to go via central server.

## Why not Seafile

- Seafile is an interesting project but
  - Way too much overlap between Tiki Wiki CMS Groupware and Seafile. It's way less work to add / improve any missing functionality in Tiki than to deal with overlap.
  - The server and clients are different code bases, which is bigger long term workload.
  - Can't do P2P sync. Everything needs to go via central server.

## Why not Pydio

- Pydio is an interesting project but
  - Way too much overlap between Tiki Wiki CMS Groupware and Pydio. It's way less work to add / improve any missing functionality in Tiki than to deal with overlap.
  - The server and clients are different code bases, which is bigger long term workload.
  - Can't do P2P sync. Everything needs to go via central server.

## Why not SparkleShare

- SparkleShare is an interesting project but
  - Way too much overlap between Tiki Wiki CMS Groupware and SparkleShare. It's way less work to add / improve any missing functionality in Tiki than to deal with overlap.
  - It's based on Git whereas Syncting uses the [Block Exchange Protocol](#) which is more suited for this use case
  - Can't do P2P sync. Everything needs to go via central server.

## Why not LinShare

- LinShare is an interesting project but it is for file sharing and not file sync. File sharing is covered by [Tiki file galleries](#)

## Why not Rsync

- Rsync is a command line tool (although there are some GUIs available)
- Rsync is to sync 2 directories. There is no 3 way sync and it can't deal with device discovery like Syncting can.

## Why not Unison

Unison is an interesting option, but compared to Syncthing:

- No Android support
- No device discovery

<https://github.com/bcpierce00/unison>

## Why not Retroshare

Retroshare is a very interesting. You should definitely check it out.

In terms of files, it offers "file sharing" but this is to disseminate files to your contacts in serverless way. It is not designed to sync files between devices (and thus collaboration).

<http://retroshare.net/>

## See also

- [Syncthing in WikiSuite](#)
- <https://libreplanet.org/wiki/Group:SyncReplacement>
- [https://en.wikipedia.org/wiki/Comparison\\_of\\_file\\_synchronization\\_software#Open-source](https://en.wikipedia.org/wiki/Comparison_of_file_synchronization_software#Open-source)
- <https://linuxctl.com/2017/04/syncthing---why-you-should-be-using-it/>
  
- [Why](#)
- [Why Cyrus IMAP and Cypht](#)
- [Why Free Libre Open Source software](#)
- [Why Not](#)
- [Why Openfire](#)
- [Why Tiki Wiki CMS Groupware](#)