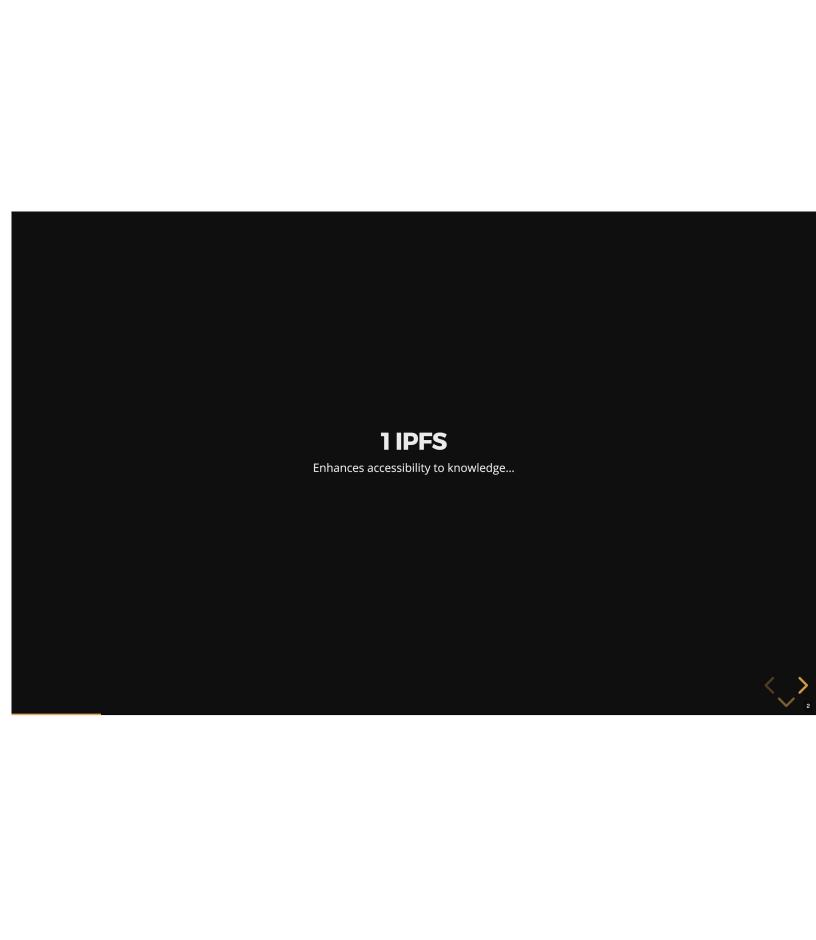


Created: 2019-06-23 Sun 18:14



1 IPFS

Enhances accessibility to knowledge... ...But stays blind to generated data.



2 GNU Guix in short

Homepage: https://guix.gnu.org/

A functional package manager focusing on (among others):

- Reproducibility
- https://reproducible-builds.org/
 Bootstrappability
 GNU Mes:
- - - https://www.gnu.org/software/mes/
 - Stage0: https://github.com/oriansj/stage0



2.1 Guix package substitutes

- A few build farms with limited throughput.Content delivery networks help (CDN).

Can we do better?



3 IPFS & Guix: BFFs of the 21st century

- What IPFS can do for Guix:
 - Distribute Guix substitutes.
 - Unify references to source data.
- What Guix can provide for IPFS:
 - Maximal transparency in software builds.

(Or any generated data?)

4 Dreams of a (not so distant) future





P2P FTW!



4.2 Deeper dream: All data lives in IPFS

No local filesystem, no Guix store.

Installing an application amounts to *pinning* it.



4.3 Abstract dream: All computations are equal

No distinction between "software builds" and everything else.



5 Next step?

- IPFS wants YAPM (Yet Another Package Manager).
 IPFS wants WebOS.