

DEMO

Serverless IIF with Interplanetary File System (IPFS)

Going Serverless: P2P Access and Annotation with
Mirador and Universal Viewer on IPFS

establish serverless concept

p2p exchange of data directly between devices
don't need to run servers. just need to have
nodes on the network hold copies of the
content

running a node as easy as running git

use a demo ipfs gateway at ipfs.lib.stanford.edu

show content being served through nodes at ipfs.io, [stanford.edu](https://ipfs.lib.stanford.edu) and localhost

establish concept of “pinning”

establish serverless IIF Image service

tiles and manifests loaded onto IPFS nodes
any IPFS node can serve that content

establish pubsub concept

pass near-real-time updates between nodes by
subscribing to “topics” and publishing
messages to those topics

establish *serverless* pubsub concept

not relying on a server to relay messages
nobody has to run a server to make this work

show role of value-adding observers

show “follower” node at stanford pinning the
content

make connection to following datasets &
accessioning

show p2p pubsub applied to IIF annotations

show mirador adding annotations while they
appear in UV

put it in their hands

invite audience to open mirador or UV and
follow along

— needs clear way for them to follow the topic

show offline use

presenter turns off their wifi

presenter adds annotations in mirador

the annotations appear in UV on presenter's
laptop

presenter turns on their wifi

audience sees the annotations appear on their
machines

