

bunsanweb

A proof of concept for decentralized web

bunsanweb is a collection of technologies created to realize the new concept of a "Web of Programs".

A world in which links in documents are able to to freely harness the power of to Web processing programs.

We've designed:

- Endpoints, that make browser tabs running JavaScript hyperlinkable
- Hyperlinks, as first-class objects with metadata with HTML as a container of hyperlinks
- The ability to Map linked Resources for URL semantics onto endpoint scripts, from local resources all the way to universal resources
- A single federated universal stream for open events shared by emergent endpoints

Site

- <https://bunsanweb.github.io/>

Main repository: documents and links to codes

- <https://github.com/bunsanweb/bunsanweb>

bunsanweb: topics

Decentralizing the Web

- Our view of the Web
- Web of something
- Views toward decentralization
- Our view of decentralizing the Web

About "bunsanweb"

- What "bunsanweb" tackles
- What we've made
- bunsanweb: endpoint-scripting
- bunsanweb: universal event stream
- bunsanweb: endpoint-relative hyperlinked space

With bunsanweb

- Change with bunsanweb: open systems built on peer relations
- Connect to decentralized technologies

bunsanweb: keywords

We choose

- **User-Agent** makes Resources independent
 - not Web Servers for controlling Resources
- **End-to-end** principle
 - not gathered in the middle
- Enhance from **Endpoint**
 - not from specific intermediaries
- Web of (**hyperlinked**) Programs
 - not accessing data structures via RPC
- **Endpoint-scripting**
 - not separating client-side and server-side functionalities
- **Universal** event stream
 - not pre-registered channels
- **Endpoint-relative** hyperlinked space
 - not data of accounts on global Web Services
- Scripting with JavaScript and other **standard browser APIs**
 - not specialized API objects for each functionality
- HTML as a **hyperlink container**
 - not document formats without URL type (or just a string)
- **Content-based** events shared on a universal stream
 - not temporal event data in siloed channels