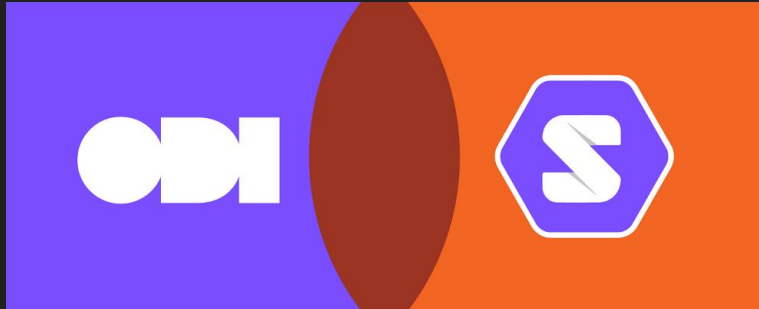


Solid



About Me

- Doing DPhil in Oxford Ethical Web and Data Architectures Group
- Lead work on Solid at the Open Data Institute
- Formerly worked on Solid as an Engineer at Inrupt

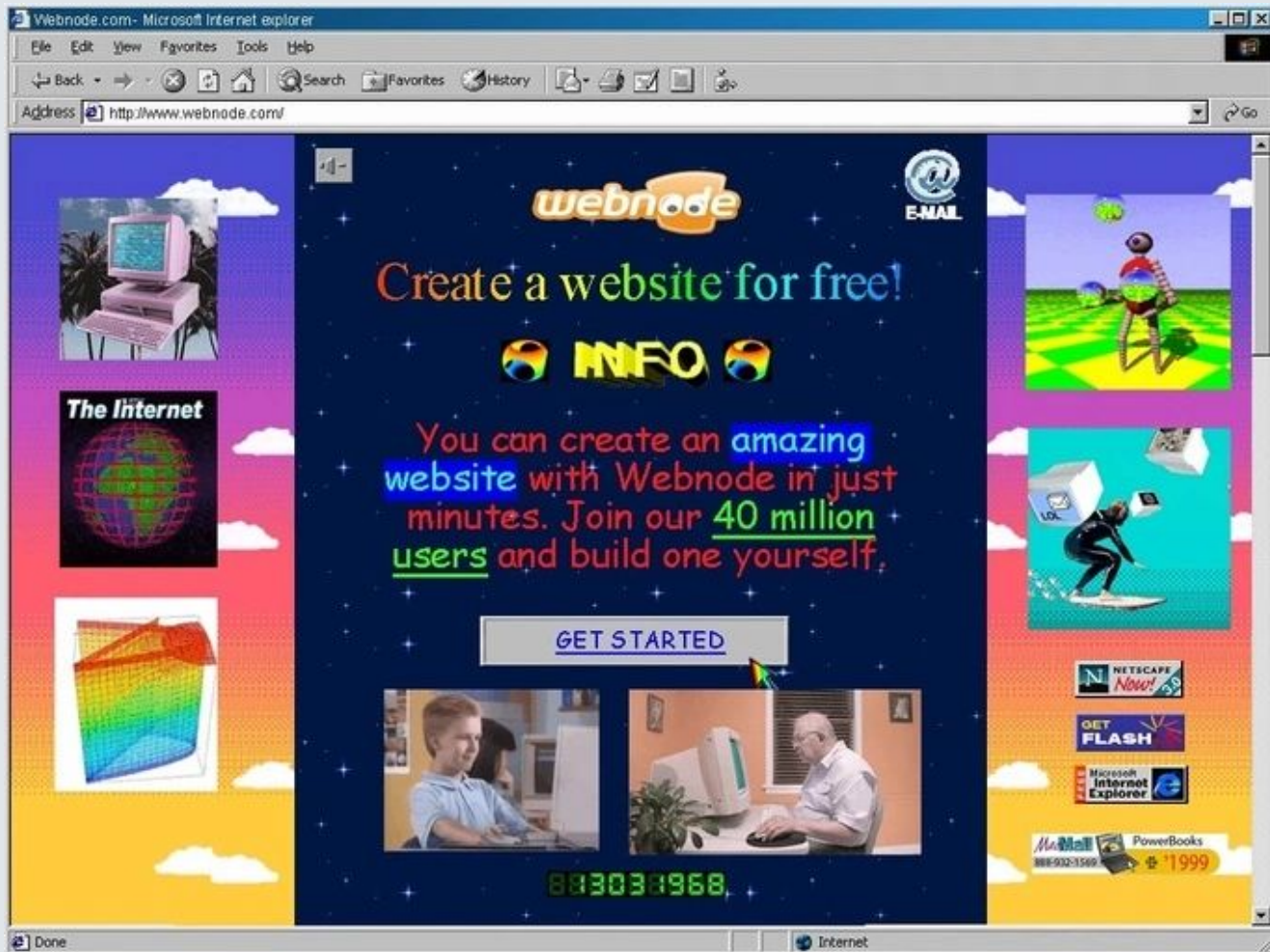


UNIVERSITY OF
OXFORD



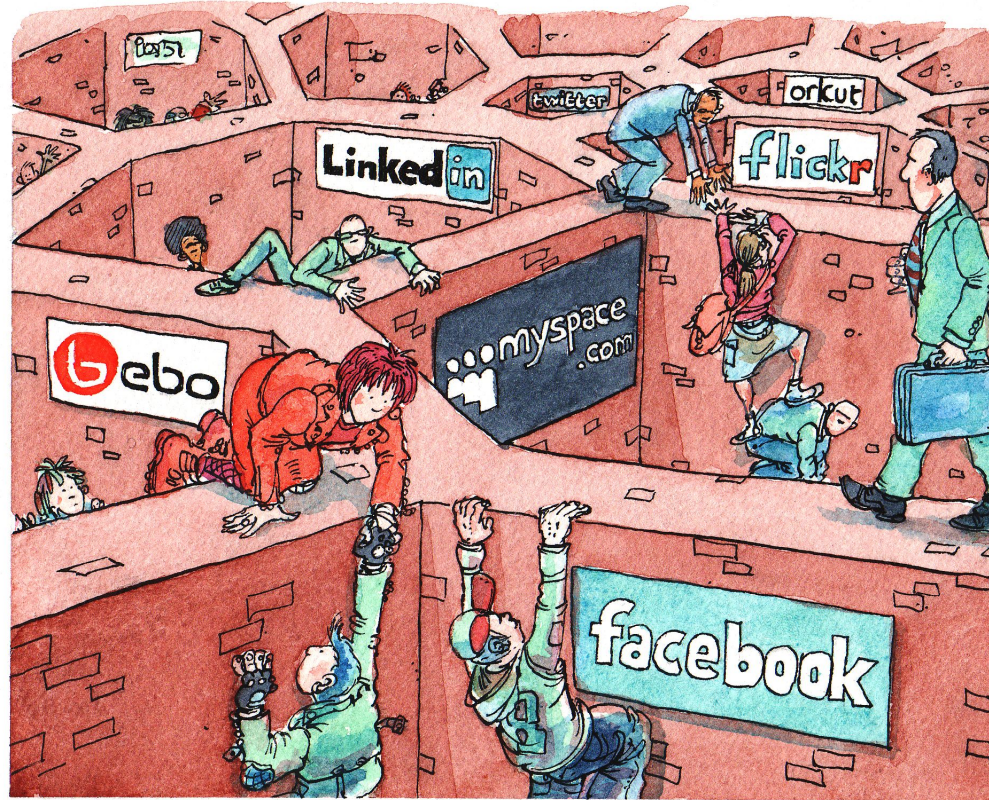
DEPARTMENT OF
**COMPUTER
SCIENCE**







... but data silos are disempowering people ...



Catalyse ODI's stewardship of Solid

Your data, your choice



- Solid aims to **unlock the potential of personal data for social and economic benefit** while **empowering data holders** to decide how and for what purposes their data is used.
- Solid **decouples data** from applications allowing it to be **reused across applications** and **agents**.



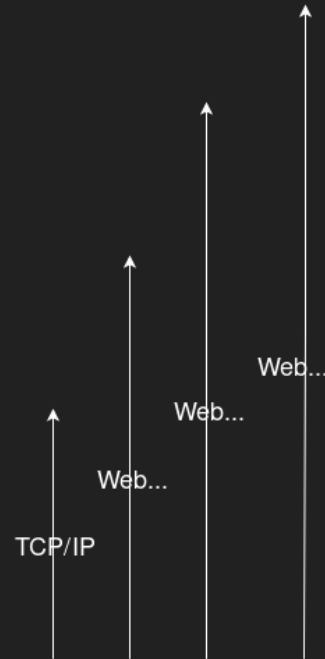
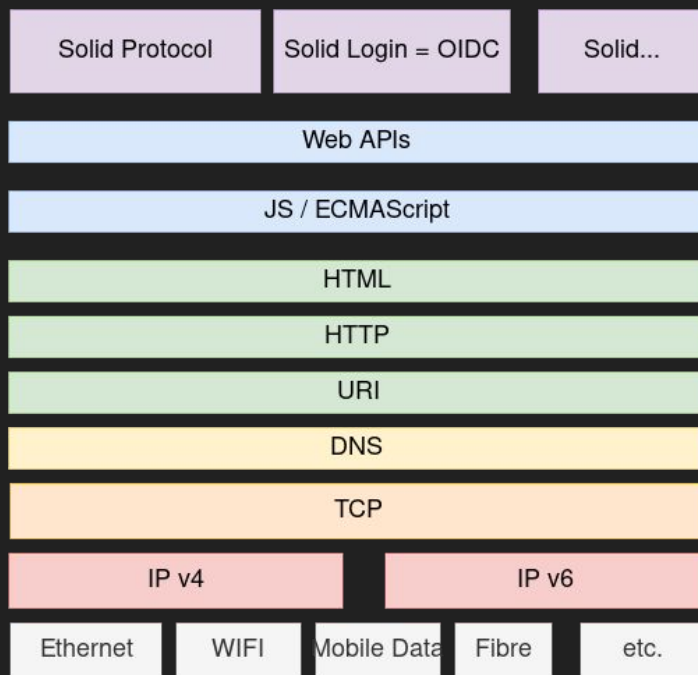
“The ODI and Solid’s, now shared vision - to establish a data ecosystem that benefits individuals, organisations and society - reflects my own. It is an opportunity to correct our global data infrastructure to one that encourages collaboration, stimulates creativity and fosters compassion - my original hope for the web.”

Sir Tim Berners-Lee

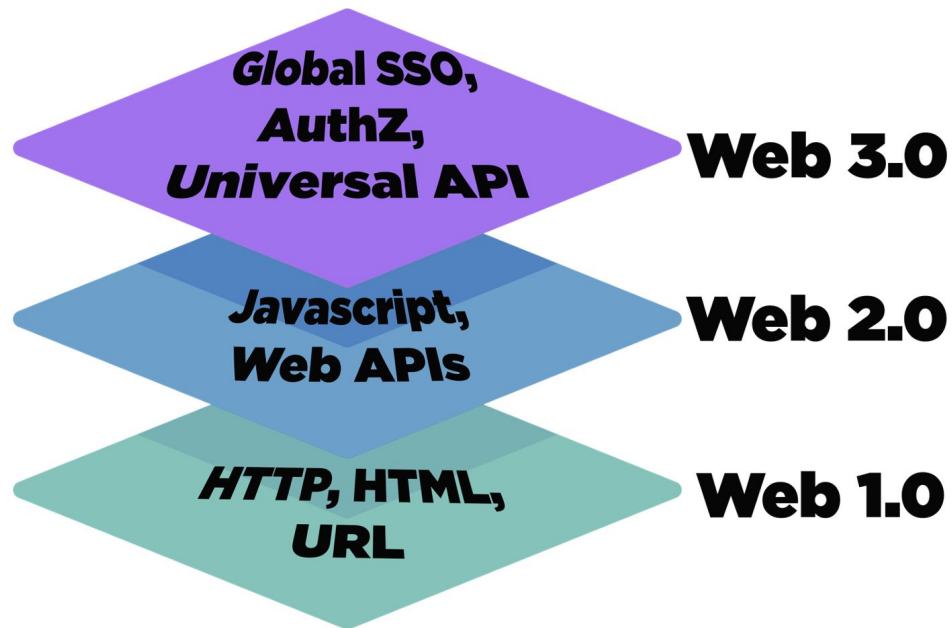


What is Web3.0 Solid (server-client):

- SSO and Global Identity
- Read/Write Linked Data (LDP)
- Access Controls



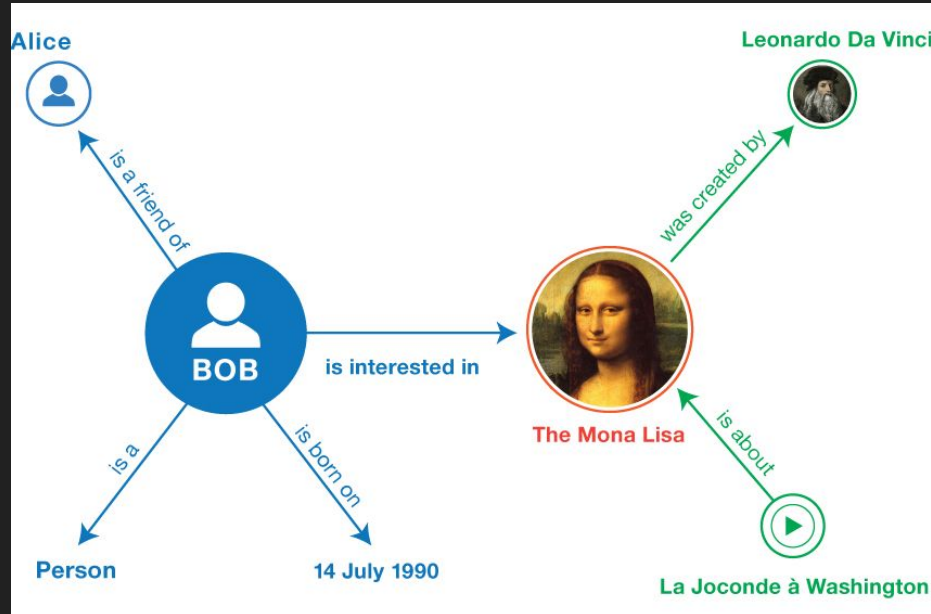
What is Web3.0 Solid (server-client)





What is Web3.0 Solid (client-client):

- RDF and Linked Data is used to allow client-client interoperability.





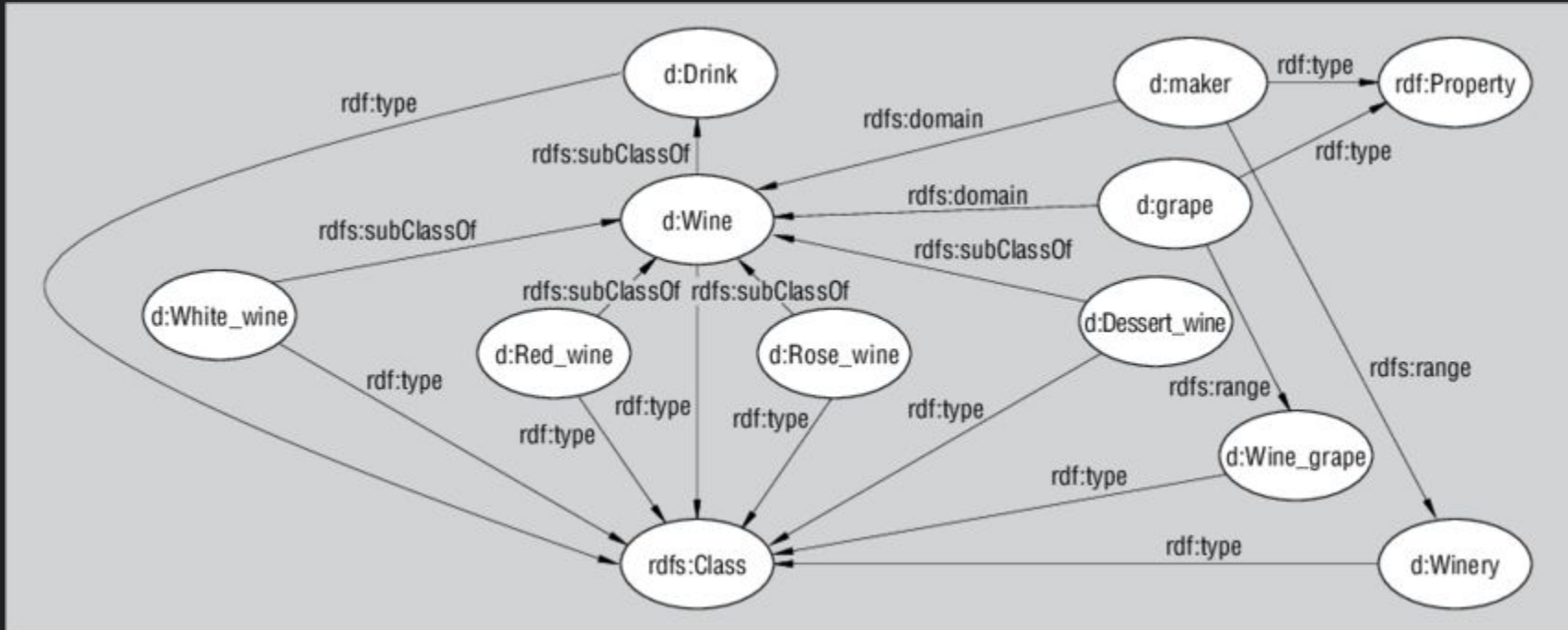
What is Web3.0 Solid (client-client):

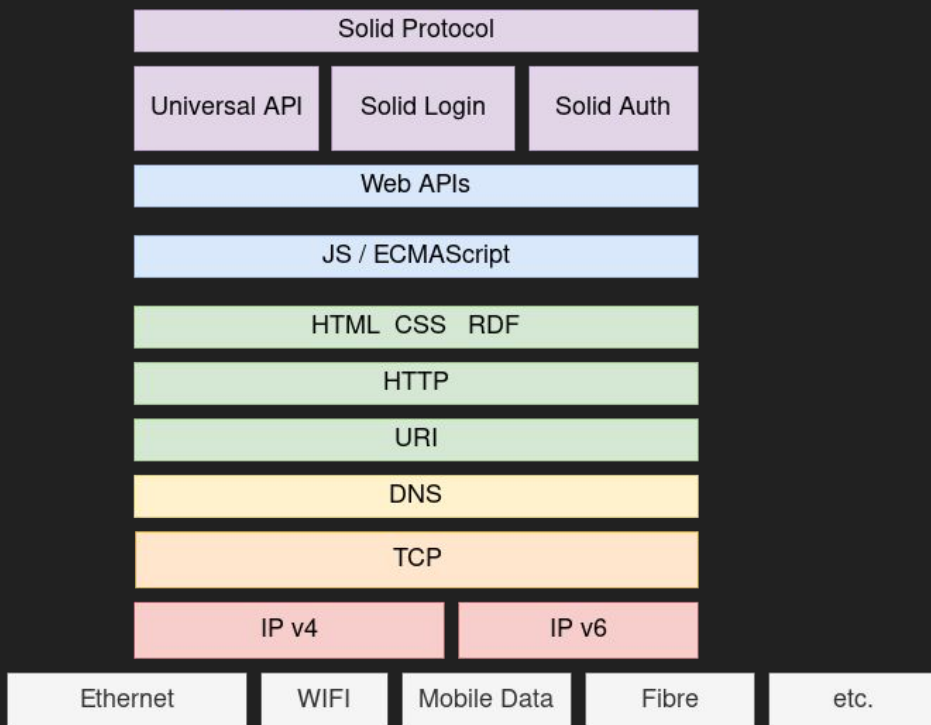
- Linked Data
 - Use URIs as names for things.
 - Use HTTP URIs so people can look up those names.
 - When someone looks up a URI, provide useful information using the standards.
 - Include links to other things, so people can discover more.

A good resource for learning more about linked data can be found [here](#).

What is Web3.0 Solid (client-client):

- RDF: interoperability = consensus on the data model used





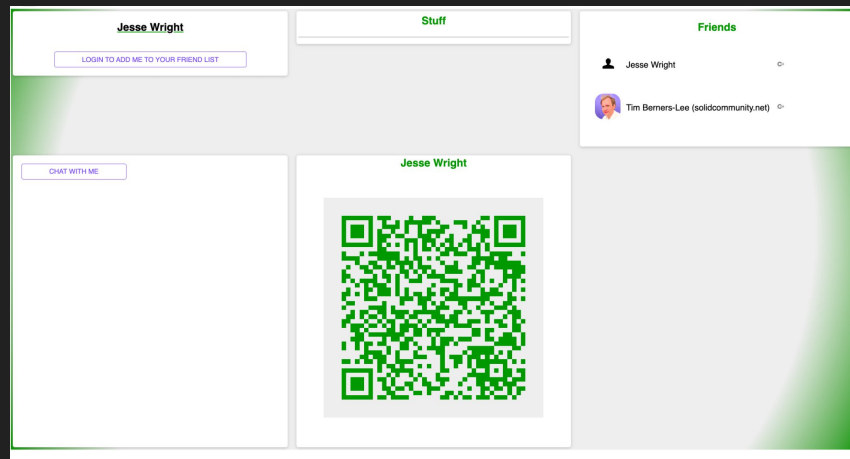
```

@prefix : <https://jeswr.solidcommunity.net/profile/card#>.
@prefix acl: <http://www.w3.org/ns/auth/acl#>.
@prefix foaf: <http://xmlns.com/foaf/0.1/>.
@prefix ldap: <http://www.w3.org/ns/ldap#>.
@prefix schema: <http://schema.org/>.
@prefix solid: <http://www.w3.org/ns/solid/terms#>.
@prefix space: <http://www.w3.org/ns/pim/space#>.
@prefix pro: <https://jeswr.solidcommunity.net/profile/>.
@prefix inbox: <https://jeswr.solidcommunity.net/inbox/>.
@prefix jes: <https://jeswr.solidcommunity.net/>.

pro:card a foaf:PersonalProfileDocument;
  foaf:maker <#me>;
  foaf:primaryTopic <#me>.
<#me> a schema:Person, foaf:Person;
  acl:trustedApp _:b1466_n3-175, _:b1466_n3-176, _:b1466_n3-177, _:b1466_n3-178, _:b1466_n3-179,
  _:b1466_n3-180, _:b1466_n3-181;
  ldap:inbox <https://jeswr.solidcommunity.net/inbox/>;
  space:preferencesFile <https://jeswr.solidcommunity.net/settings/prefs.ttl>;
  space:storage <https://jeswr.solidcommunity.net/>;
  solid:account <https://jeswr.solidcommunity.net/>;
  solid:oidcIssuer <https://solidcommunity.net/>;
  solid:privateTypeIndex <https://jeswr.solidcommunity.net/settings/privateTypeIndex.ttl>;
  solid:publicTypeIndex <https://jeswr.solidcommunity.net/settings/publicTypeIndex.ttl>;
  foaf:name "Jesse Wright";
  foaf:knows <#me>, <https://timbl.solidcommunity.net/profile/card#me>.
_:b1466_n3-175 acl:mode acl:Append, acl:Read, acl:Write;
  acl:origin <https://bourgeoa.solidcommunity.net:8443>.
_:b1466_n3-176 acl:mode acl:Append, acl:Read, acl:Write;
  acl:origin <https://martin.vincenttunru.com>.
_:b1466_n3-177 acl:mode acl:Append, acl:Read, acl:Write;
  acl:origin <https://penny.vincenttunru.com>.
_:b1466_n3-178 acl:mode acl:Append, acl:Read, acl:Write;
  acl:origin <https://podpro.dev>.
_:b1466_n3-179 acl:mode acl:Append, acl:Read, acl:Write;
  acl:origin <https://solid-health-app.vercel.app>.
_:b1466_n3-180 acl:mode acl:Append, acl:Read, acl:Write;
  acl:origin <https://timbl.com>.
_:b1466_n3-181 acl:mode acl:Append, acl:Read, acl:Write;
  acl:origin <https://umai.noeldemartin.com>.

```

WebID: <https://jeswr.solidcommunity.net/profile/card#me>





Ok so what are the important features we get from Solid (regardless of the architecture):

- Proper control and consent management over data
- Data re-usability across applications
- Consensus on interpretation of data





State of Solid:

- Spec developed at MIT in 2014/2015
- Inrupt founded 2017 to push commercially
- ODI took on Stewardship of Solid in October 2024
- Linked Web Storage (LWS) started in October 2024 to bring the client-server specifications W3C WG status.

Production Deployments of Solid:



Community is starting to compile a list at:
<https://solidproject.solidcommunity.net/catalog/>

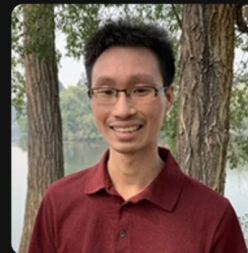
If you want to add to the list see:
<https://github.com/solid-contrib/catalog>

Production Deployments of Solid:



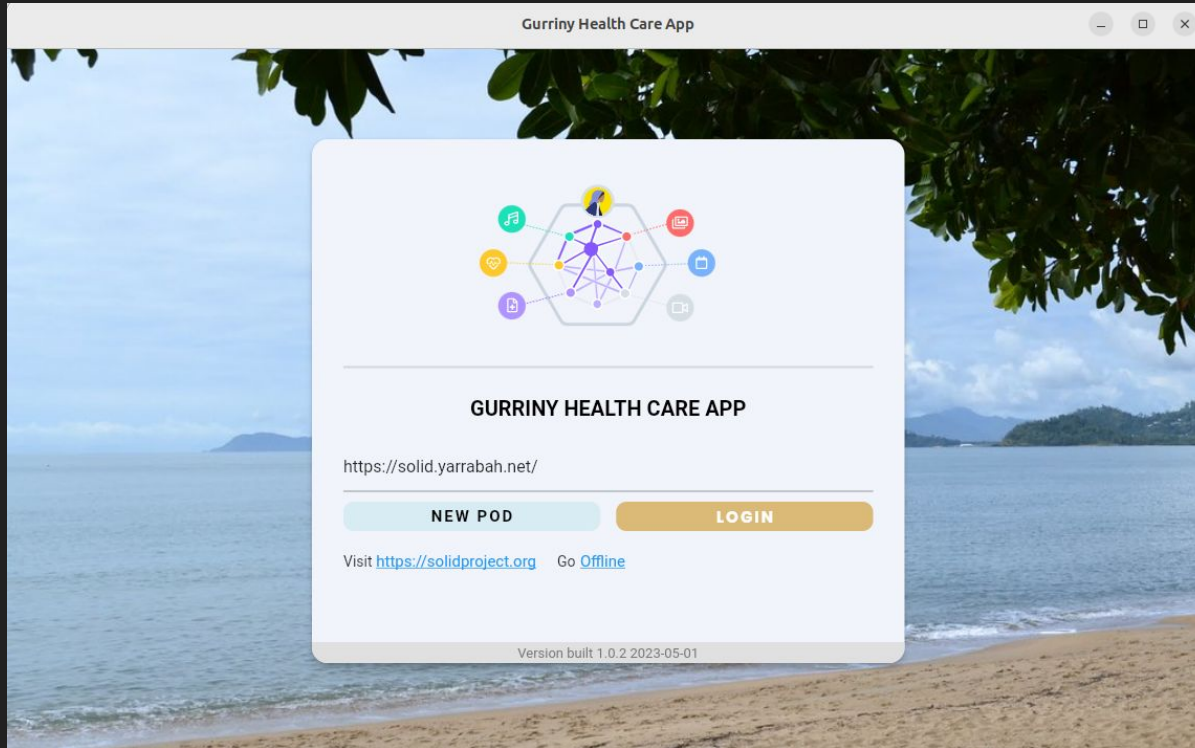
Who is CODE PDX?

We are civic-minded residents committed to improving public services in Portland by working with local government to utilize open data, improve citizen knowledge, and implementing technological solutions. We are driven by our community for our community.



<https://www.codepdx.org>

Production Deployments of Solid:



<https://sii.anu.edu.au/projects.html>

Production Deployments of Solid:



NatWest



Government Offices of Sweden



UK Government



Allstate



Discussion