



pouchdb

The Database that Syncs

About Me

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JRS Coding School

- 12 Week Full Stack JavaScript Course
- Open Source Projects and Libraries - github.com/twilson63
- Chief Technology Innovation Officer - Tabula Rasa HealthCare

What is PouchDB?

- JavaScript Database
- Inspired by Apache CouchDB
- Runs in the Browser and NodeJS
- Document Database or NoSQL Database
- Notification or Changes Feed
- Can replicate

Why PouchDB?

- Why use a database in the Browser?
- Why replication?
- Why NoSQL?



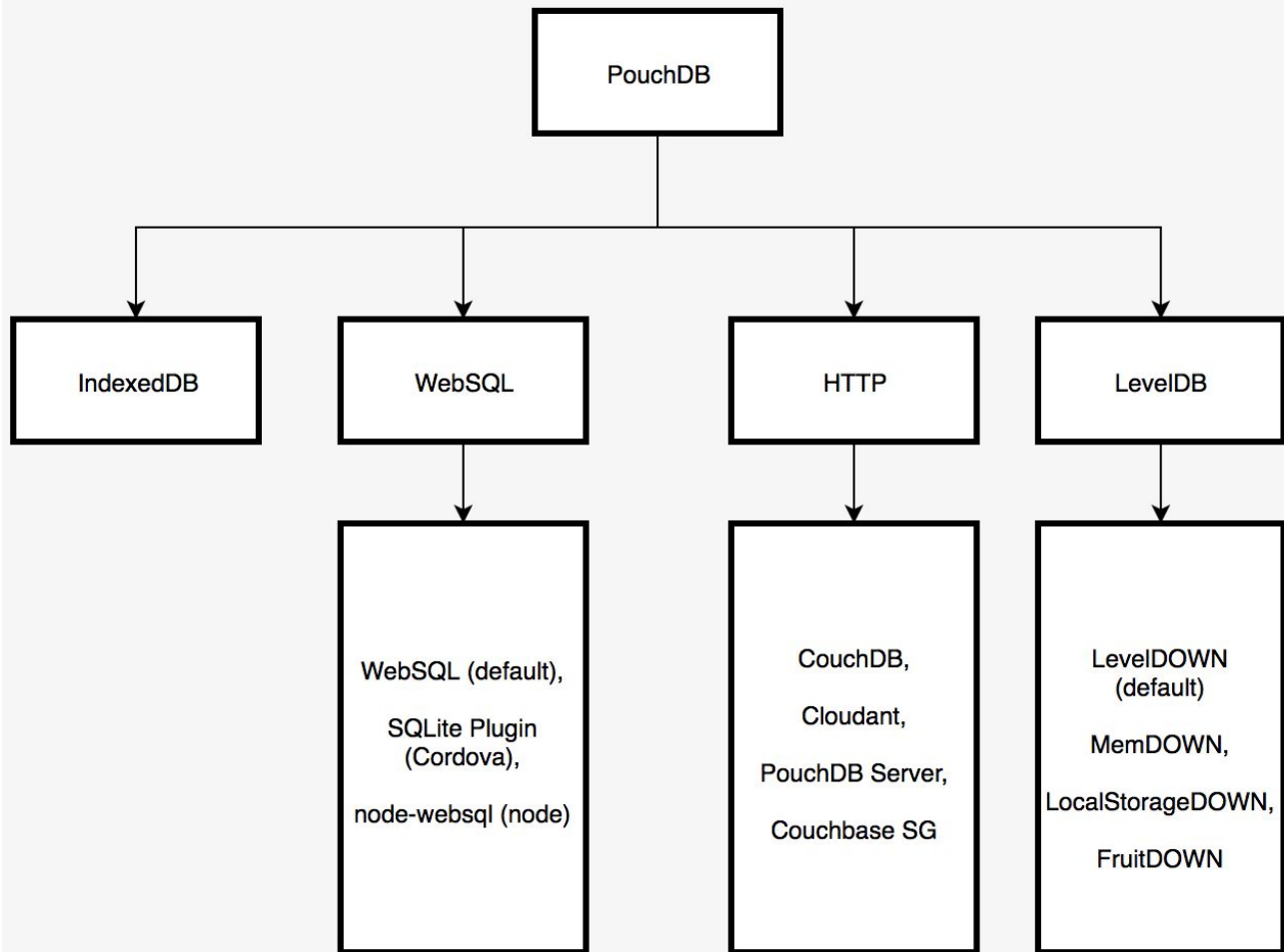
Offline First

What is offline first?

Offline capability is a key characteristic of modern Progressive Web Applications.

Offline first thinking must learn from and further what we've seen work with Responsive and Mobile First thinking.

<http://offlinefirst.org/>



Apache CouchDB

- PouchDB is able to sync with CouchDB
- CouchDB uses the http protocol - the protocol of the web
- CouchDB treats sync as a first class citizen
- PouchDB is able to act as a driver for CouchDB

Demo

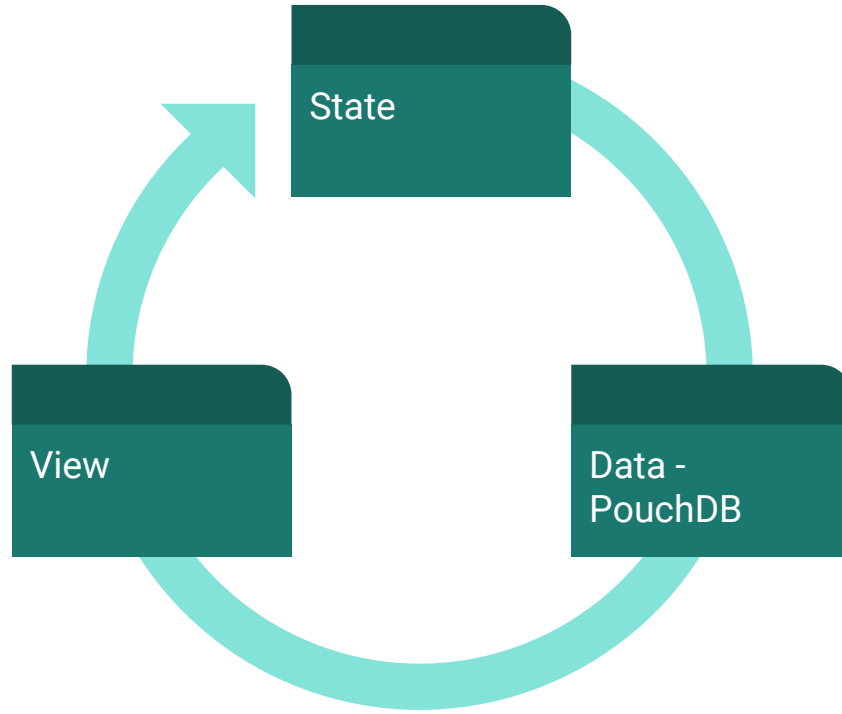
Things to Know

- Browser Db Sizes
 - https://pouchdb.com/faq.html#data_limits
- Security
 - CouchDB - <https://github.com/colinskow/superlogin>
 - ExpressJS - Proxy
- Configure Revisions
 - `revs_limit`: Specify how many old revisions we keep track (not a copy) of. Specifying a low value means Pouch may not be able to figure out whether a new revision received via replication is related to any it currently has which could result in a conflict. Defaults to `1000`.

Use Cases

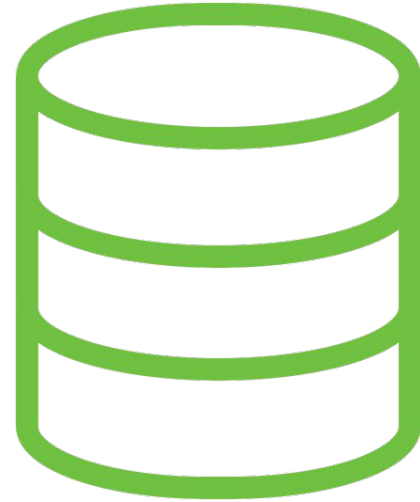
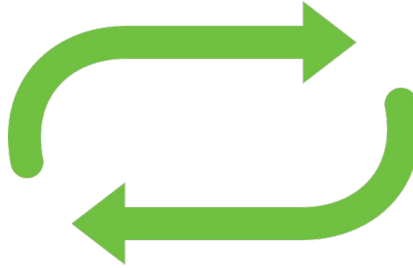
When should I reach for PouchDB?

Prototyping



Offline Availability

(Local Data Caching)



Increased UX

(Local Searching and Lookups)

CouchDB

Cloudant or Self Hosted

Alternate Persistence

<https://github.com/twilson63/mysql-down>

Q and A

Thank You

Resources

- <https://pouchdb.com/>
- <https://github.com/twilson63/OpenSource-101-PouchDB>
- <https://pouchdb.com/learn.html>
- <http://offlinefirst.org/>