

# Why CouchDB?

the above type is not rendered in comic sans...

see...

Chalkboard

Data

Comic Sans MS

Data

# Lonely Data

- data access depends on (often API-less) app (esp. desktop)
- web apps are a little better, but not always
  - not general meant for replication/backup
- app may be open source, but data's still tangled up (RDBMS)

Enter...



# JSON Documents

```
{ "json": "key/value pairs",  
  "_id": "some uuid",  
  "_rev": "mvcc key",  
  "string keys":  
    [1,2,3,"four",null],  
  "schema free": "flexible" }
```

Your programming language supports JSON!  
Adapt data as your application changes.

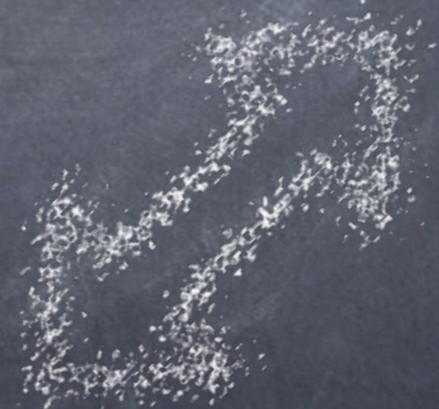
# HTTP / REST

you already know the API

GET	read
PUT	create or update
DELETE	delete
POST	bulk operation

# Peer-Based Replication for Freedom

triggered, incremental, filtered (soon)



# Portable Standalone Apps

## replicate-able apps

- CouchApps live inside CouchDB
- Get replicated with data
- Includes map/reduce views as well as...
  - `_show` - output rendering
  - `_list` - incremental index/list output
  - `_update` - document validation
  - `.js`, `.css`, `.png` attachments for the UI

# Let's Replicate...

...EVERYTHING!!!

- Take full advantage of CouchDB
- The Future is Distributed
  - not just data, but...
  - queries
  - output formats
  - attachments
  - whole applications
  - and everything else in between

# Imagine these as CouchApps

- **OpenLibrary.org**

- contribute & get updates periodically
- add your book while on the plane, publish it when you get off

- **Subject Guides**

- more ad-hoc content (thanks to schema-less-ness)
- more contributors (give'm their own CouchDB)

# CouchDB does replication

you get to do  
the other stuff

thanks

also: check out [hosting.couch.io](http://hosting.couch.io) for a free Couch