## json-schema

akvo learning session

## Why schemas

- Implicit vs. explicit data model
  - Explicit means that the data model is written down and (perhaps) enforced.
  - Explicit schema means more work up front
  - But hopefully yields easier long term maintenance.

### Why schemas

Stuart Sierra retweeted



stuarthalloway @stuarthalloway · Dec 12 s/schema/power, ergo schemaless = powerless







Peter Taoussanis retweeted dad reid @dreid · Jul 22



Schema-less isn't really a thing.

Implicit vs explicit schema: A thing.

In-band vs out-of-band schema: A thing.

Schema-less: Not a thing.









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# Real world example



Which one is correct?

With an implicit schema it's hard to know

42842453	43922155	VALUE	Arjosari
42842453	43922155	DATE	18-08-2013 19:00:00 CEST
42842453	43922155	VALUE	Blimbing
42842453	43922155	VALUE	Fauzi Kurniawan

### json-schema

- (json-)schema can be used to
  - define a data model for your schema-less database
  - define a data model for your REST api
  - really, anywhere JSON is used
  - validate your data
    - share the schema between different systems in your application. (server/client or producer/consumer)
  - (in some cases) generate code that follows the schema

## Where are we using it?

FLOW data event schema

https://github.com/akvo/akvo-core-services/tree/unified-log/flow-data-schema

Web forms API (?)
Define data model for forms/questions etc.

### DEMO

Q/A

http://json-schema.org