<script> your way into NoSQL

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In the beginning, there was LAMP
ALTER table ... Linux
Apache
MySQL
Perl (or PHP)

The dawn of ORMs

Hibernate

ActiveRecord
Today, API’s vs Clients

- **Client**
  - Stateless
  - Resources
  - URIs

- **Data Store**
  - Resources

- **API**

**MV*”
Synchronize remote STATE
The client-side runs JavaScript
Document stores provide JSON natively.
Apps with MEAN stacks
MongoDB
ExpressJS
AngularJS
Node
But, there is also

Meteor, ArangoDB-Foxx, Rendr, Brainy, Backbone-ORM, Serverbone, BookshelfJS, i-tier, Thorax, DerbyJS, ...
The main point

100% JavaScript
A Good Thing

Multiple runtimes
A quick demo on JavaScript Runtimes:
Node – Browser – ArangoDB
More Good Things

concurrency

built-in
A quick demo on the event-loop
Challenges ...

- inheritance
- async vs sync
- throwing errors
From JSON ...

```json
{
    "director": "Matthew Vaughn",
    "rating": 3.4,
    "showtime": 1388766180,
    "description": "In grief and anger, Lensherr's magnetic power manifests .... ",
    "title": "X-Men: First Class",
    "id": 15,
    "year": 2011,
    "length": 132,
    "genres": [
        "Action",
        "Adventure",
        "Sci-Fi"
    ]
}
```
... to data „modules“

with event emitters
to be exported

Demo let’s create a model
Enhanced data

- events
- validations
- map primary key queries
The jQuery of data

Underscore

Lo-Dash

and

promises
Interesting projects

- http://knexjs.org/
- https://www.arangodb.org/foxx
- http://bookshelfjs.org/
- https://github.com/Everyplay/backbone-blueprint
var talk;
talk.questions();
.end();
Developing Web Apps with BackboneJS