

Building Your First App with Silex and MongoDB

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Agenda

- Composer
- Silex (slides)
- MongoDB (slides)
- Twig and Bootstrap
- Doctrine MongoDB
- Additional functionality and exercises

Composer

- <http://getcomposer.org/>

Silex

- <http://silex.sensiolabs.org/>

Installing Silex

- <http://silex.sensiolabs.org/download>
- Archive Install (recommended)
 - “Fat” or “Slim”
- Composer Install
 - composer require silex/silex=~1.2
- Our example application
 - <https://github.com/jmikola/silex-mongodb-workshop>

Web Server Configuration

- http://silex.sensiolabs.org/doc/web_servers.html

MongoDB

- <http://mongodb.org/>
- <http://pecl.php.net/mongo>

Importing Data

Importing from OpenStreetMap

- OpenStreetMap XML
 - <http://download.geofabrik.de/europe/germany.html>
- Parsing XML and importing into MongoDB
 - <http://derickrethans.nl/importing-osm-into-mongodb.html>
 - <https://github.com/derickr/3angle>

Importing from Foursquare

- <https://api.foursquare.com/v2/venues/search>
 - ?oauth_token=<...>
 - &v=20141027
 - &near=Santa+Clara,CA
 - &categoryId=<...>
- <https://developer.foursquare.com/docs/explore>
- <https://developer.foursquare.com/docs/venues/search>
- <https://developer.foursquare.com/categorytree>

Some Data Fixtures

<http://git.io/VkiiWw>

```
$ mongoimport -d silex -c venues venues.json
```

MongoDB: 2d vs. 2dsphere

- <http://docs.mongodb.org/manual/core/2d/>
- <http://docs.mongodb.org/manual/core/2dsphere/>

Converting to GeoJSON

- <https://github.com/jmikola/geojson>
 - `composer require jmikola/geojson=~1.0`

Improving Foursquare Import

- Console application: `src/console.php`
- Modify import to call the search API
- Merge new results into the database
- Create shared service provider(s)

Doctrine MongoDB

- <https://github.com/doctrine/mongodb>
 - `composer require doctrine/mongodb=~1.1`

Frontend Functionality

- Home
- Users
 - Authentication
 - Profile
- Venues
 - Show
 - List and search
 - Check in

Other Exercises

- Venues
 - Show nearby
 - Create and edit
 - Geocoder API
- Users
 - Facebook
- Geospatial queries
- Aggregation
 - MapReduce
 - Agg. Framework
- MongoDB
 - Replica sets
 - Sharding

