

Marius Hoch
Wikimedia Deutschland

Put data on it: Using Wikidata data in Wikimedia projects

Infoboxes

- Simple tables containing basic facts
- Traditionally data is stored in the WikiText of each page
 - Tedious to update
 - Data fragmented across Wikis

Wikidata – Using the data

- Access to the Item linked with the current page or any other Item
- Easy to use access via a parser function
- High flexibility using Lua

Using Wikidata – Parser function

- Parser function: `{{#statements:...}}`

Editing Berlin

Inception: 1237

Country: [Germany](#)

B

I



Advanced



Sp

Inception: `{{#statements:inception}}`

Country: `{{#statements:P17}}`

Using Wikidata – Lua

- Many convenience functions
 - Access to a renderer for basic values (Snaks)
 - Access to label and sitelink lookups
- Full access to the entity's data – as a Lua table (“object”)

Using Wikidata – Lua

Basic example (equivalent to `{{#statements:P17}}`):

```
1 local p = {}
2
3 function p.example()
4     → local entity = mw.wikibase.getEntity( 'Q64' )
5
6     → return entity:formatStatements( 'P17' ).value
7 end
8
9 return p
```

- `mw.wikibase.label`
- `mw.wikibase.sitelink`
- `mw.wikibase.renderSnak`
- `mw.wikibase.entity:getSitelink`
- `mw.wikibase.entity:formatPropertyValues`
- ...

Infobox Status Quo

- Hard to maintain for small Wikipedias
- Integration with Wikidata possible using Lua or parser functions
- No defined Infobox data structure
 - Hardly machine readable
 - Hard to re-use / discover

Capiunto

- Extension providing basic infobox functionality.
- Consistent and portable Infoboxes
- Easy to use interface for assembling infoboxes from Lua
- Coming to a Wikipedia near you soon!

Manual Infobox creation

```
local capiunto = require 'capiunto'  
capiunto.create( {  
    title = 'Title of the Infobox'  
} )  
:addRow( 'A label', 'some data' )  
:addHeader( 'A header between the data rows' )  
:addRow( 'Another label', 'more data' )
```

Title of the Infobox

A label	some data
A header between the data rows	
Another label	more data

Automatic Infoboxes – Concept

- Alternative to the classic Infobox infrastructure, initially targeted at small Wikis
 - Similar to the ArticlePlaceholder
- Easy to use: no Templates or Modules needed
- Everything is localized, data **solely** from Wikidata
- Infobox data is machine readable and can be easily exported
 - Can easily be shown in different ways
 - Semantic markup can be added via Wikidata

Automatic Infoboxes – Usage proposal

- Simple inclusion:
 - `{{#infobox}}` parser function
- Simple configuration:
 - Sorted list of Properties which will be included

Further reading

- How to use data on Wikimedia projects
 - https://www.wikidata.org/wiki/Wikidata:How_to_use_data_on_Wikimedia_projects
- Capiunto
 - Reference
 - <https://www.mediawiki.org/wiki/Extension:Capiunto/Infobox>
 - Simple how to (in progress)
 - https://www.mediawiki.org/wiki/Extension:Capiunto/Infobox/Basic_usage
- WikibaseClient Lua interface
 - Reference:
 - https://www.mediawiki.org/wiki/Extension:Wikibase_Client/Lua

Wikidata – Data structure

- Labels
- Descriptions
- Statements

