



Inserting data to Wikivoyage templates

solutions, problems, and needs

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By the way...

- ...Wikivoyage is the Wikimedia travel guide, i.e. the sister of Wikipedia and Wikidata
- 19 languages
- 27,000 sites at Wikivoyage/en, 16,000 at Wikivoyage/de
- 9 years' experience on German Wikivoyage with data bases: location data base, Wikidata



Mayor Wikidata-based applications


- Infoboxes (“quickbars”)
 - fetching data like region, count of inhabitants, contact information of tourist offices, and for location maps
 - With edit link to Wikidata in case of missing and different values
- Listing templates
 - presenting data of institutions like hotels, museums, and so on. About 40 parameters can be specified. Most of them can be stored on Wikidata
 - About 3,500 Lua code lines
- ...
- Kartographer map support

Examples







Dresden




Bundesland	Sachsen 
Einwohner	531.982 (2014) 
Höhe	112 m 
Tourist-Info	+49 (0)351 501 501 www.dresden.de 

keine Touristinfo auf Wikidata: 

Lage



Ein **Click auf den Marker öffnet die Karte direkt.** nicht. Zum Sonnenuntergang empfiehlt sich ein Spaziergang entlang des Kana
 Alt **GMS: 30° 52' 45" N 120° 25' 0" O**  
 Dez: 30.87918, 120.416572  
 U **Link zu Wikivoyage-Kartenwerkzeugen**
Link zu WMF-Labs-Kartenwerkzeugen

- 1 **Volks Mehood Hotel** (**沃克斯美豪酒店** ), NO.1, Zhenxun Rd, Nanxun District, 313000 Huzhou, China  . Tel.: +86 139 49614920  . Das empfehlenswerte Hotel hat recht schöne Zimmer und ein angenehmes Ambiente. Im Zimmerpreis enthalten sind WiFi und Frühstück. Toilette und Dusche haben eine Glastür, deren oberer Teil (ca. 30% der Türhöhe) allerdings offen ist. Check-in: 12:00. Check-out: bis 17:00. Preis: ab EUR 50. Akzeptierte Kreditkarten: Visa, Unionpay. (letzte Änderung: Dez. 2016 | [info](#) | [bearbeiten](#))



Property-related problems

- Name of the first-order administrative entity for all countries of the world
 - Simple: getting last-order entity
- Simplifying the instance of an institution P31 (interchange station → railway station)
- Handling overseas territories (language, currency may differ)
 - Maybe different language, currency, international calling code...



Software-related problems

- Slashing computing time: templates were used up to 200 times per article
- Expensive Lua calls, in particular for getting entity objects for countries and cities with a huge number of properties
- Example: city of Bremen (<https://de.wikivoyage.org/wiki/Bremen>)
 - With optimization: 165 listing templates need 2.500 msec
 - Without optimization: estimated 20 sec

Solutions

- Tables, tables, tables...
 - To prevent expensive access to Wikidata
 - Worldwide list of administrative regions to ignore or to accept
 - List with all data needed
settlement → administration entity → country → Wikidata
 - List of known instances
- Digging through up to five successive levels and comparing instances with data stored in Lua tables
 - P31 → P279 (subclass) → P279 ...



Future solutions and apps

- SPARQL queries to simplify code and reduce computing time
- Enhanced Lua interface
 - Filtering entity objects to reduce computing time. Normally only a small set of properties are really needed
 - Yesterday's talk: it will be available soon
 - Additional comfortable Lua functions
 - Maximum count of values for a property excluding null values
- Direct editing of Wikidata entities
- Travel planner
- Review forum



Thanks

- I thank you for your attention.
- If you have questions please contact me at the conference.