

# INTEGRATING OPENSTREETMAP TO WIKIPEDIA

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# WHAT IS OPENSTREETMAP?

- A collaborative project to create a free editable map of the world
- Maps are created using data from portable GPS devices, aerial photography, other free sources or simply from local knowledge
- Contribution to the project is possible also without using a GPS unit
- Creative Commons AttributionShareAlike licensed



# WHY NOT GOOGLE MAP?

..OR SOME OTHER PROPRIETARY MAP

It doesn't have

- Creative Commons AttributionShareAlike License
- Community
- Vector data



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# WHY INTEGRATION NEEDED?

- Both OpenStreetMap and Wikipedia stands benefit
- Maps are a critical tool to illustrate selected facts, and explain key historical/etc
- Map provides geographical-located links to all other Wikipedia articles in its language, that include coordinates
- Hundreds of users has work in independent or organized ways to illustrated hundreds thousands articles with maps
  - Localization of point; Localization of area; General mapping (similar to OSM usual display); Historical mapping; Technical mapping (some buildings); Topographical mapping; Exchange/Flux mapping



# INTEGRATION PROCESS

- Display free OSM's maps within Wikipedia's articles
- Need infrastructures (servers and associated server strategy) as well as some programs for smooth display into the articles and accessibility
- OSM offers raw mapping data currently with the creative commons license by-sa 2.0
- OSM provides the tools to create rendered map images



# INTEGRATION SHOULD ACHIEVE THE FOLLOWING GOALS

- 1 The integration of OSM-maps in Wikipedia
- 2 The installation of a map toolserver



# COLLABORATION SETUP

- Developer meetup 2009 held in Berlin by Wikimedia Germany planned how to accomplish this
- Now there is an intensive and ongoing cooperation between the German Wikipedia and OpenStreetMap
- OSM is a worldwide project, that cannot be divided into local versions
- So integration has to be done in every language
- Wikimedia Germany bought special tool servers for this project





# OPENSTREETMAP IS ADDED TO WIKIPROJECT

- Wikimedia setup a database to mirror OSM data (planet.osm)
- Wikimedia setup its own rendering infrastructure for rendering tiles and other maps from the OSM data



# THE (RENDERING) DATABASE

- A PostGIS database with a limited OSM dataset used for rendering
- Around 60 GB

- Rendered using mapnik
- Currently using the OpenStreetMap stylesheet
- Rendered in all 279 Wikipedia languages
- We'd do more rendering variations



# LINK FROM OSM WIKI TO WIKIPEDIA

TEMPLATE:PLACE

LANG = EN

NAME = LOS ANGELES

TYPE = CITY

SUBAREA = CALIFORNIA

AREA = UNITED STATES

LAT = 34.05

LONG = -118.25

ZOOM = 11

MAP = YES



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# LINKING FROM WIKIPEDIA TO OSM

- Link from Wikipedia to OSM is on image description pages for the map images we upload there
- To simplify setting up image descriptions there are various templates
- See [http://en.wikipedia.org/wiki/Wikipedia:WikiProject\\_OpenStreetMap#Templates](http://en.wikipedia.org/wiki/Wikipedia:WikiProject_OpenStreetMap#Templates)



# LINK TO WIKIPEDIA ARTICLES FROM WITHIN THE OSM MAP DATA

- For Wikipedia it would be interesting to draw the real OSM-objects (that were linked to Wikipedia-article) in a map inside the Wikipedia-article
- A tool to create such links is <http://wiki.openstreetmap.org/wiki/JOSM/Plugins/RemoteControl/Add-tags>



# ACTIVE CONTRIBUTORS



# MAILING LIST

<https://lists.wikimedia.org/mailman/listinfo/maps-l>





# FUTURE PLANS

- Even though there is an intensive and ongoing cooperation between the German Wikipedia and OpenStreetMap
- The work of this co-operation has to be done in every local language and thus for all language versions of Wikipedia
- OSGeo Kerala Chapter is taking initiative for mapping through camps
- With the help of OSGeo Kerala Chapter, Wikipedians at Kerala can test the integration
- Collaboration Setup is needed to accomplish this
- Content adding in OpenStreetMap is also an essential thing as Wikipedia contribution
- Wikimedia Foundation should see this also as a major activity by introducing openstreetmap along with wikipedia and through workshops



- 1 <http://meta.wikimedia.org/wiki/OpenStreetMap>
- 2 [http://en.wikipedia.org/wiki/Wikipedia:WikiProject\\_OpenStreetMap](http://en.wikipedia.org/wiki/Wikipedia:WikiProject_OpenStreetMap)
- 3 [http://wiki.openstreetmap.org/wiki/Collaboration\\_with\\_Wikipedia](http://wiki.openstreetmap.org/wiki/Collaboration_with_Wikipedia)
- 4 <http://wiki.openstreetmap.org/wiki/Template:Place/doc>



