

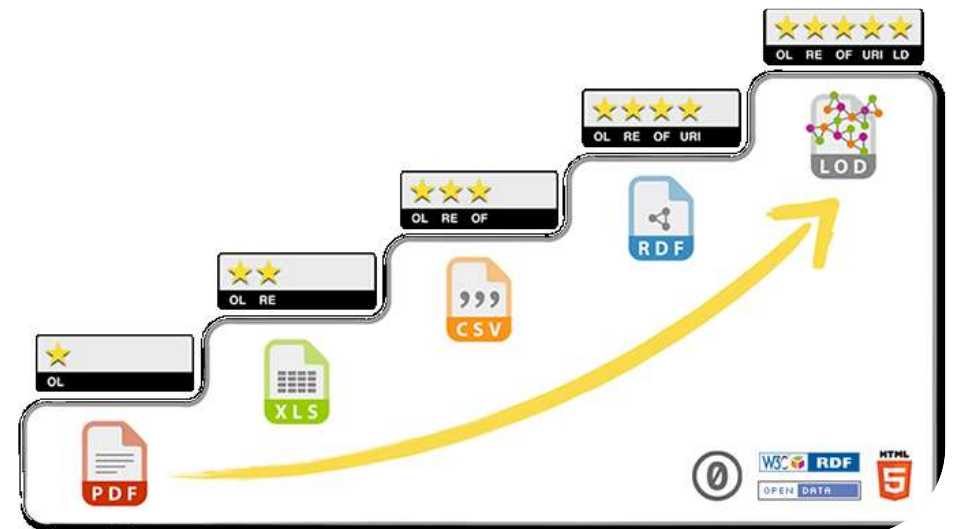


Making Polish geographical names SEO friendly

INSPIRE Discovery Workshop 2019

Starting point

- Activities related to publishing spatial data as Linked Open Data (LOD)
- Contract issued
 - create ontologies for State Register of Geographical Names (PRNG) data set
 - transform PRNG to RDF
 - publish created RDF via SPARQL endpoint



Why PRNG?

- It is one of the smallest data set maintained by our organisation – contains around 300 000 objects:
 - Build-up areas: cities, towns, villages and their parts
 - Physiographic objects: lakes, rivers, peaks, caves, forests, etc.
 - In general the data set content is similar to INSPIRE DS on Geographical Names
- Point geometry
- Open data
- Referential data set – similar to GeoNames

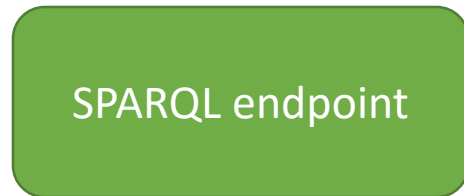
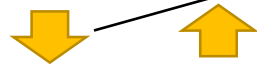


PRNG as LOD

- At the end of the contract we had:
 - RDF repository (<https://dane.gov.pl/dataset/780,panstwowy-rejestr-nazw-geograficznych-prng/resource/1474>)
 - SPARQL endpoint (<http://semantic.geoportal.gov.pl/>)
 - **Unique URI for each individual objects**

- Let's create landing pages

Landing pages

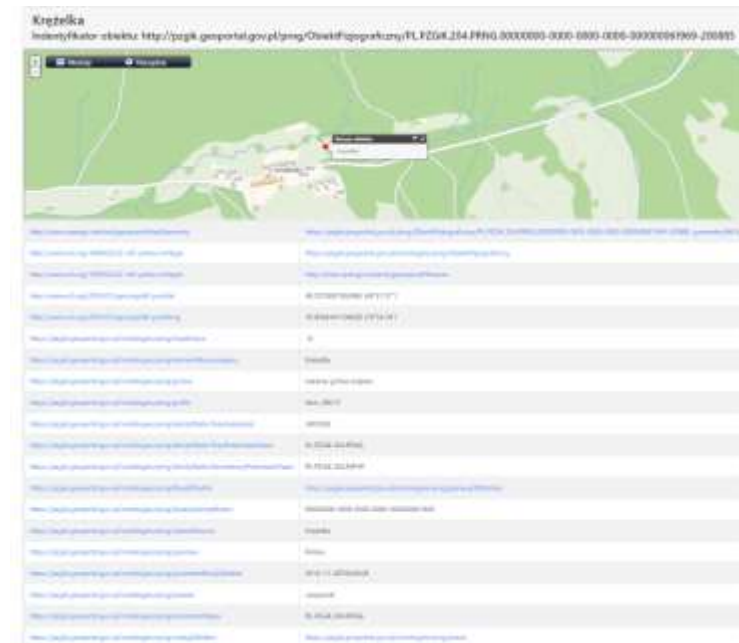


Name of geographical feature
e.g. „Krężelka”

<https://pzgik.geoportal.gov.pl/prng/ObiektFizjograficzny/PL.PZGiK.204.PRNG.0000000000-0000-0000-0000-000000061969-200885>

`select ?b ?c`

`{<https://pzgik.geoportal.gov.pl/prng/ObiektFizjograficzny/PL.PZGiK.204.PRNG.0000000000-0000-0000-0000-000000061969-200885> ?b ?c}`



SEO improvements

- Gradual – stepwise approach
- Sitemaps and Open Search Console
- HTTP to HTTPS
- Adding RDFa
 - Returned by SPARQL endpoint
 - Schema.org



Experience

- Google

- Initially 113 656 objects (landing pages) were indexed out of around 300 000 (33%).
- At the beginning of this year Google Search Console reported „Crawl anomaly“. As a result almost all previously indexed websites were removed from the Google index.
- After investigation it turned out that the anomaly was caused by the security policy of the new firewall – the firewall was blocking sessions of web crawlers.
- At some point only 3 394 landing pages were indexed by Google. Currently, it is 8 273.
- We plan to attempt to re-index removed landing pages.

Lesson learned

- In general applied approach worked
- Next time we will do it differently
 - Put more „attractive” content (from the perspective of search crawlers) on landing pages from the very beginning
 - Experiment with small subsets of different version of landing pages to check which version is most attractive for search crawlers and later prepare the rest of landing pages using the most effective template
 - Use additional indexing websites
 - Be more careful with network security policy

Plans

- Making cadastre data sets SEO friendly
 - Over 35 000 000 cadastral parcels
 - We would like to achieve a situation in which a user would be able to find the landing page of the particular cadastral parcel by providing its unique identifier to a search engine





Live demo

- [Madejowiec](#)
- <https://pzgik.geoportal.gov.pl/prng/ObiektFizjograficzny/PL.PZGiK.204.PRNG.00000000-0-0000-0000-0000-000000075208-212526>

madejowiec

All Images Maps Videos News More Settings Tools

About 170 results (0.45 seconds)

Did you mean: **madejowe**

- portal ludzi z pasją - Madejowiec :: profil użytkownika :: andegrand.pl
<https://www.andegrand.pl/users/Madejowiec> - Translate this page
Madejowiec. • status: zaawansowany • miasto: Bolesławiec • na portalu od: 4749 dni • ostatnio widziany: 3989 dni temu. Aby wpisać się do książki gości trzeba ...
DS: 0 TS: 0 Get Trust metrics with free SEMrush account - Connect
L: 0 LD: 159K I: 3,87K Rank: n/a Age: wait... whois source Rank: 5,25M
Adv Disp Ads: 0 Pub Disp Ads: 0
- PRNG - Geoportal**
<https://pzgik.geoportal.gov.pl/.../PL.PZGiK.204.PRNG.00000000-0...> - Translate this page
[https://pzgik.geoportal.gov.pl/ontologies/prng/elementRozrozniajacy, Madejowiec.](https://pzgik.geoportal.gov.pl/ontologies/prng/elementRozrozniajacy,Madejowiec)
[https://pzgik.geoportal.gov.pl/ontologies/prng/gmina, Skawina-obszar wiejski.](https://pzgik.geoportal.gov.pl/ontologies/prng/gmina,Skawina-obszar_wiejski)
You visited this page on 6/24/19.
L: 0 LD: 5,49K I: 1,03K Rank: n/a Age: wait... whois source Rank: 1,27M
Adv Disp Ads: 0 Pub Disp Ads: 0
- Baśniowy Madej - krzyżówki online - Szarada.net
<https://szarada.net/okreslenie-z-krzyzowki/basniowy-madej/> - Translate this page
Lista rozwiązań dla określenia baśniowy Madej z krzyżówki.
L: 0 LD: 29,1K I: 537K Rank: n/a Age: wait... whois source Rank: 112K
Adv Disp Ads: 0 Pub Disp Ads: 144
- U progu pierwszego dnia wiosny taką... - Gospodarstwo ... - Facebook
<https://pl-pl.facebook.com/...madejowce-/484558575291973/> - Translate this page
U progu pierwszego dnia wiosny taką piękną zimę mamy na Madejowce.
L: 0 LD: 39,0M I: 11,8M Rank: n/a Age: wait... whois source Rank: 5
Adv Disp Ads: 1,28M Pub Disp Ads: 37

Thank you

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