

Semantic Web

Report #7 Semantic Wikis

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1. Semantic MediaWiki - Categories

- Paste the wiki page source (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group1600/kamola>

My name is Dominika. I am 23 years old.

Currently I study at AGH UST, faculty of applied informatics.

I belong to group Tuesday, 16:00. The other members of my group are:

```
[[Category:Student]]
```

- Paste the wiki page source (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/AGH-UST/Subjects/subjectX>

```
[[Category:University subject]]
```

2. Semantic MediaWiki - Properties

- include the updated wikipage source code (markup) in the report.

```
[[Category:Student ]]
```

My name is `[[name::Dominika Kamola]]`. I am `[[age::23]]` years old.

Currently I study at AGH UST, faculty of electrical engineering.

I belong to group `[[group::1600]]`. The other members of my group are:

- include the updated wikipage source code (markup) in the report.

```
[[Category:University subject]]
```

```
lead by: [[lead by::prof Nowak]]
```

```
room: [[room::B1 125]]
```

```
duration: [[duration::90]] min
```

3. Semantic MediaWiki - Inline queries

- Put the query in the report.

```
[[Category:Student ]]
```

My name is [[name::Dominika Kamola]]. I am [[age::23]] years old.

Currently I study at AGH UST, faculty of electrical engineering. I belong to group [[group::1600]]. The other members of my group are:

```
{{#ask: [[Category:Student]] [[group::1600]]
| ?name
| ?age
| ?group
| format=ul
}}
```

- Put the query in the report.

```
[[Category:Student ]]
```

My name is [[name::Dominika Kamola]]. I am [[age::23]] years old.

Currently I study at AGH UST, faculty of electrical engineering. I belong to group [[group::1600]]. The other members of my group are:

```
{{#ask: [[Category:Student]] [[group::1600]]
| ?name
| ?age
| ?group
| format=ul
}}
```

```
{{#ask: [[Category:Student]] [[group::1600]]
| ?name
| ?age
| sort=age,name
| order=ascending,ascending
| format=table
}}
```

4. Loki - Use Cases

Geographic Wiki

Copy the wiki pages sources and paste them into the report.

<http://loki.ia.agh.edu.pl/lokidev/cities:katowice>

```
Katowice is a [[category:city|city]] in
[[located in::countries:Poland]] inhabited by
[[inhabited by:=population:=308 000]] people. It is a central
district of the
[[category:Upper Silesian Metropolis|Upper Silesian Metropolis]].
Katowice [[established in:=century:=16|was established in 16th
century]] and
[[has city rights since:=year:=1865|has city rights since 1865]].
Katowice is one of the biggest
[[category:scientific centre|scientific centre]] in Poland.
```

```
[[page created:=2012-06-09| ]]
```

<http://loki.ia.agh.edu.pl/lokidev/countries:poland2>

```
Poland is a [[category:country]]
[[located in::continents:europa|located in Europe]].
```

```
Poland borders with [[countries:germany|Germany]],
[[countries:czechrepublic|Czech Republic]],
[[countries:slovakia|Slovakia,]],
[[countries:ukraine|Ukraine]],
[[countries:belarus|Belarus]],
[[countries:lithuania|Lithuania]].
Poland [[has access:=sea:=Baltic Sea|has access to the Baltic
Sea]]. Poland is [[inhabited by:=population:=38 000 000|inhabited
by 38 000 000 people]].
```

```
[[page created:=2012-06-09| ]]
```

5. Loki - Semantic Web Standards

- **Put the query into the report.**

Three countries placed in Europe which have the biggest area.
Result is sorted by area.

```
<pl format="sparql">
PREFIX wiki: <>
SELECT ?country ?continent ?area
WHERE {
    ?country category "country".
    ?country wiki:placed_in <continents:europe> ?continent.
    ?country wiki:area ?area.
}
ORDER BY DESC(?area)
LIMIT 3
</pl>
```

6. Loki - Reasoning

- **Put the goal in the report.**

Finds country in Europe where people speak Spanish.
My Recommendations:

```
~~NOCACHE~~
<pl goal="wiki_category(X,'country'),wiki_relation(X,'language',
', 'languages:spanish'),wiki_relation(X,'placed_in','continents
:europe'),write(X),nl,fail" scope="countries">
</pl>
```