

AKADEMIA GÓRNICZO-HUTNICZA

WYDZIAŁ ELEKTROTECHNIKI, AUTOMATYKI, INFORMATYKI I ELEKTRONIKI
KIERUNEK INFORMATYKA STOSOWANA



PODSTAWY INŻYNIERII WIEDZY

Semantic Web Applications

Semantic Wikis

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1 Semantic MediaWiki - Categories

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

<http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/sroda0800/ljaromi>

```
[[ Category:Student ]]  
  
= L. Jaromi =  
  
My name is L. Jaromi. I am 23 years old.  
Currently I study at AGH UST, faculty of electrical engineering. I belong  
to group 0800.  
The other members of my group are:
```

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

<http://loki.ia.agh.edu.pl/smw/index.php/AGH-UST/Subjects/Podstawy-In%C5%BCynierii-Wiedzy>

```
[[ category:University subject ]]
```

2 Semantic MediaWiki - Properties

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

```
[[ Category:Student ]]  
  
= L. Jaromi =  
  
My name is [[name::L. Jaromi]]. I am [[age::23]] years old.  
Currently I study at AGH UST, faculty of electrical engineering. I belong  
to group [[group::0800]].  
The other members of my group are:
```

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

```
[[ category:University subject ]]  
  
= Podstawy Inżynierii Wiedzy =  
  
lead by: [[lead by::prof. Antoni Ligęza]]  
room: [[room::B1 121]]  
duration: [[duration::90]] min
```

3 Semantic MediaWiki - Inline queries

3.1 Put the query in the report.

```
[[ Category:Student ]]  
  
= L. Jaromi =  
  
My name is [[name::L. Jaromi]]. I am [[age::23]] years old.
```

Currently I study at AGH UST, faculty of electrical engineering. I belong to group [[group::0800]].
The other members of my group are:

```
{{#ask: [[Category:Student]] [[group::0800]]
| ?name
| format=ul  }}
```

3.2 Put the query in the report.

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

= L. Jaromi =

My name is [[name::L. Jaromi]]. I am [[age::23]] years old.
Currently I study at AGH UST, faculty of electrical engineering. I belong to group [[group::0800]].
The other members of my group are:

```
{{#ask: [[Category:Student]] [[group::0800]]
| ?name
| format=ul  }}
```

```
{{#ask: [[Category:Student]] [[group::0800]]
| ?Name
| ?Age
| format=table
| default=nothing :( in group:0800
| order=descending  }}
```

4 Loki - Use Cases

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

http://loki.ia.agh.edu.pl/lokidev/movie:game_of_thrones

```
= [[title:=Game of Thrones]] =
```

== Details ==

```
* Type: [[type:=TV series]]
* Genre: [[genre:=thriller]]
* Seasons: [[seasons:=3]]
* Country: [[country:USA]]
* Language: [[language:English]] | [[language:French]]
* Release Date: [[release date:=17 April 2011]] (USA)
* Production year: [[production_year:=2011]] i [[production_year:=2012]]
* Runtime: [[runtime:=60]] min
```

== Storyline ==

Seven noble families fight for control of the [[action place:mythical land of Westeros|mythical land of Westeros]]. Political and sexual intrigue is pervasive. [[person:Robert Baratheon]], King of Westeros, asks his old friend [[person:Eddard Stark|Eddard, Lord Stark]], to serve as Hand of the King, or highest official. Secretly warned that the previous Hand was assassinated, Eddard accepts in order to investigate further.

Meanwhile the Queen's family, the Lannisters, may be hatching a plot to take power. Across the sea, the last members of the previous and deposed ruling family, the [[Game of Thrones house:Targaryen|Targeryens]], are also scheming to regain the throne. The friction between the houses [[Game of Thrones house:Stark]], [[Game of Thrones house:Lannister]] and [[Game of Thrones house:Baratheon]], and with the remaining great houses [[Game of Thrones house:Greyjoy]], [[Game of Thrones house:Tully]], [[Game of Thrones house:Arryn]], and [[Game of Thrones house:Tyrell]], leads to full-scale war. All while a very ancient evil awakens in the farthest north. Amidst the war and political confusion, a neglected military order of misfits, the Night's Watch, is all that stands between the realms of men and icy horrors beyond.

[[category:movie]]

http://loki.ia.agh.edu.pl/lokidev/person:edward_stark

= Eddard Stark =

Eddard Stark, informally called Ned, played by [[actor:Sean Bean]], is Lord of [[city:Winterfell]] and Warden of the North. He serves as the third-person narrator for fifteen chapters in A [[movie:Game of Thrones]]. Though his family sees him as friendly, many other characters mistake his reservation for coldness and disdain. He is married to [[Game of Thrones character:Catelyn Tully]].

[[category:actor]]

5 Loki - Semantic Web Standards

5.1 Observe the results. Put the query into the report.

<http://loki.ia.agh.edu.pl/smw/index.php/User/ljaromi>

Wyświetlanie posortowanej alfabetycznie listy filmów, które są thrillerami.

= L. Jaromi =

[[category: user]]

== Query ==

```
<pl format="sparql">
PREFIX wiki: <
SELECT ?title ?genre ?prod_year
WHERE {
  ?movie wiki:title ?title.
  ?movie wiki:genre ?genre.
  ?movie wiki:production_year
  ?prod_year.
  FILTER (?genre = "genres:thriller")
}
ORDER BY ASC(?title)
</pl>
```

6 Loki - Reasoning

6.1 Put the goal in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/User/ljaromi>

Wyświetlanie rekomendacji (tytuł oraz rok produkcji) dla filmów, które są z gatunku thriller oraz są to filmy różne od Gry o Tron.

==== Recommendations ====

```
<pl goal="wiki_category(X, 'movie'),
\+(X='movie:game_of_thrones'),
wiki_attribute(X, 'title', T),
wiki_attribute(X, 'production_year', Y),
wiki_relation(X, 'genre', 'genres:thriller'),
write(T), write(' (rok produkcji: '), write(Y), write(') '),
nl, fail." scope="*"> </pl>
```