

**Akademia Górniczo-Hutnicza
im. Stanisława Staszica w Krakowie**



AGH

**Wydział Elektrotechniki, Automatyki, Informatyki i
Elektroniki**

**Podstawy inżynierii wiedzy
Semantic Web**

Temat: Semantic Web Applications: Semantic Wikis

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Środa 09:30 i 11:00

1 Semantic MediaWiki – Categories

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

<http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group1100/kpiatek>

```
[[Category:Student]]
My name is Krzysztof Piątek. I am years 25 old.
Currently I study at AGH UST, faculty of computer science.
I belong to group 11:00am. The other members of my group are:
Agata Sitnik
and Leszek
```

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

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

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

2 Semantic MediaWiki - Properties

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

```
My name is [[Name::Krzysztof Piątek]]. I am years [[age::25]]
old.
Currently I study at AGH UST, faculty of computer science.
I belong to group [[group::11.00|11:00am]]. The other members
of my group are:
Agata Sitnik
and Leszek
```

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

```
[[Category:University subject]]
lead by: [[lead by::dr. inż Joanna Grabska-Chrzastowska]]
room: [[room::C2 224]]
duration: [[duration::90]] min
```

3 Semantic MediaWiki - Inline queries

Put the query in the report.

```
{{#ask: [[Category:Student]] [[group::11.00]]
| ?Name
| format=ul
}}
```

Put the query in the report.

```
{{#ask: [[Category:Student]] [[group::11.00]]
| ?Name
| ?age
| ?group
| default=0
| sort=age,Name
| order=descending,descending
}}
```

4 Loki - Use Cases - Movie recommendation system

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

http://loki.ia.agh.edu.pl/lokidev/movies:forrest_gump

```
[[category:movie| ]]
{:movies:forrest.jpg|}}

**Title**: [[title:=Forrest Gump]]
**Genre**: [[genre::genres:drama]], [[genre::genres:romance]]
**Production year**: [[production_year:=1994]]
**Production country**: [[produced_in_country::countries:USA]]
**Screenplay**: [[screenplay::persons:eric_roth|Eric Roth]]
**Director**: [[directed_by::persons:robert_zemeckis|Robert Zemeckis]]

**Cast**:
[[main_role::person:tom_hanks|Tom Hanks]] -
[[main_character::characters:forrest_gump|Forrest Gump]]
```

```
[[supporting_role::persons:rebecca_williams|Rebecca Williams]]  
-
```

```
[[supporting_character::characters:nurse_at_park_bench|Nurse  
at Park Bench]]
```

```
[[supporting_role::persons:sally_field|Sally Field]] -  
[[supporting_character::characters:mrs_gump|Mrs. Gump]]
```

Description: Forrest Gump, while not intelligent, has accidentally been present at many historic moments, but his true love, Jenny, eludes him.

Language: [[language:=English]]
http://loki.ia.agh.edu.pl/lokidev/person:tom_hanks
[[category:actor|]]

====Thomas Jeffrey "Tom" Hanks====

From [[http://en.wikipedia.org/wiki/Tom_Hanks|Wikipedia]]:
{:person:han.jpg|}

Thomas Jeffrey "Tom" Hanks (born [[bitrh_date:=1956-06-09|July 9, 1956]]) is an American actor, producer, writer, and director. Hanks is known for his roles in [[movies:philadelphia|Philadelphia]] and as the title character in [[movies:forrest_gump|Forrest Gump]], roles which won him two consecutive Academy Awards for Best Actor. Hanks is also known for his Oscar nominated roles in [[movies:big|Big]], [[movies:saving_private_ryan|Saving Private Ryan]] and [[movies:cast_away|Cast Away]].

5 Loki - Semantic Web Standards

Observe the results. Put the query into the report.

<http://loki.ia.agh.edu.pl/lokidev/user:plabus>

Filmy wyprodukowane w Polsce.

```
<pl format="sparql">  
PREFIX wiki: <>  
SELECT ?movie ?title ?produced_in_country  
WHERE {  
?movie category "movie".
```

```
?movie wiki:title ?title.  
?movie wiki:produced_in_country ?produced_in_country.  
FILTER (?produced_in_country = "countries:Poland")  
}  
</pl>
```

6 Loki – Reasoning

Put the goal in the report.

<http://loki.ia.agh.edu.pl/lokidev/user:plabus>

My Recommendations:

```
<pl goal="wiki_category(M,  
'movie'),interesting(M),write(M),nl,fail." scope="*">  
interesting(M) :-  
wiki_relation(M, 'genre', 'genres:drama').  
</pl>
```