

SEMANTIC WEB

SPRAWOZDANIE 6.

Semantic Web Applications: Semantic Wikis

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Kraków, 10.06.2012

Semantic MediaWiki – Categories

<http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group0930/pklimek>

My name is Paweł Klimek. I am 24 years old.
Currently I study at AGH UST, faculty of computer science.
I belong to group 09:30. The other members of my group are:
[[[:Category: Student]]]

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

PIW - Podstawy Inżynierii Wiedzy.
[[[:Category: University subject]]]

Semantic MediaWiki – Properties

My name is [[name::Paweł Klimek]]. I am [[age::24]] years old.
Currently I study at AGH UST, faculty of computer science.
I belong to group [[group::09:30]]. The other members of my group are:
[[[:Category: Student]]]

PIW - Podstawy Inżynierii Wiedzy.
Lead by: [[lead by::GJN]]
Room: [[room::C3 201]]
Duration: [[duration::90 min]]
[[[:Category: University subject]]]

Semantic MediaWiki - Inline queries

```
{{#ask: [[Category:Student]] [[group::9:30]]
| ?name
| format=ul
}}
```

Piw2012/group0930/pklimek

My name is **Paweł Klimek**. I am **24** years old. Currently I study at AGH UST, faculty of computer science. I belong to group **09:30**. The other members of my group are:

[Piw2012/group0930/plabus](#) (Name **Paweł Łabuś**) , [Piw2011/group0930/wchorzepa](#) (Name **Wiktor Chorzępa**) , [Piw2011/group0930/kmb](#) (Name **Kamil Bednarz**)

Category: [Student](#)

```
{{#ask: [[Category:Student]] [[group::9:30]]
| ?name
| format=table
| sort = age,name
| order=ascending
}}
```

Piw2012/group0930/pklimek

My name is **Paweł Klimek**. I am 24 years old. Currently I study at AGH UST, faculty of computer science. I belong to group **09:30**. The other members of my group are:

	Name
Piw2011/group0930/kmb	Kamil Bednarz
Piw2011/group0930/wchorzepa	Wiktor Chorzępa
Piw2012/group0930/plabus	Paweł Łabuś

Category: Student

Loki - Use Cases

Movie recommendation system

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

```
[[category:movie| ]]
```

```
Title: [[title:=matrix|The Matrix]]
```

```
Genre: [[genre::genres:SF]], [[genre::genres:action]]
```

```
Production year: [[production_year:=1999]]
```

```
Country: [[country::countries:USA]]
```

```
Studio: [[studio::studios:Village Roadshow Pictures]],  
[[studio::studios:Silver Pictures]]
```

```
Directors: [[directed_by::persons:Andy Wachowski]],  
[[directed_by::persons:Larry Wachowski]]
```

Cast:

```
[[main_role::persons:keanu_reeves|Keanu Reeves]]
```

```
[[main_role::persons:laurence_fishburne|Laurence Fishburne]]
```

```
[[main_role::persons:carrie_anne_moss|Carrie-Anne Moss]]
```

http://loki.ia.agh.edu.pl/lokidev/persons:keanu_reeves

```
Name: [[name:=keanu_reeves|Keanu Reeves]]
```

```
Full name: [[full_name:=Keanu Charles Reeves]]
```

```
Date of birth: [[date_of_birth:=02.09.1964]]
```

```
Place of birth: [[place_of_birth::cities:Warsaw]],  
[[place_of_birth::countries:Poland]]
```

Roles:

```
[[role::character:Neo]] - [[movie::movies:The Matrix]]
```

```
[[role::character:Tadeusz]] - [[movie::movies:Pan Tadeusz]]
```

Loki - Semantic Web Standards

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

Filmy wyprodukowane po roku 1990:

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

```

?movie wiki:title ?title.
?movie wiki:production_year ?production_year.

FILTER ( ?production_year > 1990 )
}
ORDER BY DESC ?title
</pl>

```

movie	title	production_year
movie:adams_aebler	Adams aebler	2005
movies:avatar	Avatar	2009
movies:kingdom_of_the_crystal_skull	Indiana Jones and the Kingdom of the Crystal Skull	2008
movies:katyn	Katyń	2007
movie:kontroll	Kontroll	2003
filmy:leon	Leon	1994
movies:pan_tadeusz	Pan Tadeusz	1999
movies:snatch	Snatch	2000
movie:the_good_old_boys	The Good Old Boys	1995
movie:the_sunset_limited	The Sunset Limited	2011
movie:three_burials_of_melquiades_estrada	Three Burials of Melquiades Estrada	2005
movies:twelve_monkeys	Twelve Monkeys	1996
movies:zemsta	Zemsta	2002
movies:the_matrix	matrix	1999

Loki - Reasoning

Wszystkie filmy:

```
<pl goal="wiki_category(X, 'movie'), write(X), nl, fail" scope="movies"></pl>
```

```

movies:high_society
movies:12_angry_man
movies:temple_of_doom
movies:godfather_the
movies:twelve_monkeys
movies:zemsta
movies:raiders_of_the_lost_ark
movies:katyn
movies:kingdom_of_the_crystal_skull
movies:carry_on_cleo
movies:avatar
movies:pan_tadeusz
movies:last_crusade
movies:snatch
movies:life_of_brian
movies:the_matrix
movies:top_hat
movies:a_funny_thing_happened_on_the_way_to_the_forum
movies:the_flow_fleet
movies:singin_in_the_rain
movies:carefree</span</span</span>

```

Filmy, w których główną rolę gra Keanu Reeves:

```
<p1  
goal="wiki_category(X,'movie'),wiki_relation(X,'main_role','persons:keanu_r  
eeves'),write(X),nl,fail" scope="movies"></p1>
```

```
movies:the_matrix
```