

Akademia Górniczo-Hutnicza
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w Krakowie

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Sprawozdanie

Podstawy Inżynierii Wiedzy: Semantic Web
Semantic Web Applications: Semantic Wikis

Tomasz Osiniak

1. Semantic MediaWiki – Categories

1.1 <http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group1400/tosiniak>

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

My name is Tomasz Osiniak. I am 12 years old.
Currently I study at AGH UST, faculty of electrical engineering.
I belong to group group 1400. The other members of my group are:

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

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

2. Semantic MediaWiki – Properties

2.1 <http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group1400/tosiniak>

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

My name is [[Name::Tomasz Osiniak]]. I am [[Age::22]] years old.
Currently I study at AGH UST, faculty of electrical engineering.
I belong to [[Group::group 1400]]. The other members of my group are:

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

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

lead by: [[lead by::WTA]]
room: [[room::C3 201]]
duration: [[duration::90]] min

3. Semantic MediaWiki – Inline queries

```
{{#ask: [[Category:Student]] [[group::group1400]]  
| ?name  
| format=u1  
}}
```

```
{{#ask: [[Category:Student]] [[Group::group1400]]  
| ?name  
| ?age  
| format=table  
| sort=age,name  
| order=ascending,ascending  
| default=nothing found in Category:Student,  
}}
```

4. Loki - Use Cases. Movie recommendation system

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

Title: [[title:=mindhunters|Mindhunters]]

Directors: [[directed_by::persons:renny_harlin|Renny Harlin]]

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

Genre: [[genre::genres:Action]], [[genre::genres:Crime]], [[genre::genres:Drama]]

Production year: [[production_year:=2004]]

Studio: [[studio::studios:dimension_films|Dimension Films]]

Stars:

```
[[starring::persons:val_kilmer|Val Kilmer]]
[[starring::persons:ll_cool_j|LL Cool J]]
[[starring::persons:christian_slater|Christian Slater]]
```

==Val Kilmer==

Born in Los Angeles, California. Studied at Hollywood's Professional's School.

He starred in [[movie:mindhunters|Mindhunters]] .

5. Loki - Semantic Web Standards

```
<pl format="sparql">
PREFIX wiki: <>
SELECT ?movie ?title ?director ?genre
WHERE {
    ?movie category "movie".
    ?movie wiki:title ?title.
    ?movie wiki:directed_by ?director.
    ?movie wiki:genre ?genre.
    FILTER (?genre= "genres:action")
}
</pl>
```

6. Loki – Reasoning

```
===I reccomend action movies:===
<pl goal="wiki_category(X,'movie'), wiki_attribute(X,'title',Title),
wiki_relation(X,'genre','genres:action'), write(Title), nl, fail." scope="movies" >
</pl>
```