

Lab 6: Semantic Wikis

1. Semantic MediaWiki – Categories

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

```
My name is Art Nowo, I'm 23 years old.  
Currently I study applied computer sciene at AGH.  
I'm in group 1400. The other members of my group are:  
  
[[Category:Student]]
```

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

```
KNOWLEDGE ENGINEERING  
[[Category:University subject]]
```

2. Semantic MediaWiki – Properties

```
My name is [[Name::Art Nowo]], I'm [[Age::23]] years old.  
Currently I study applied computer sciene at AGH.  
I'm in group [[Group::1400]]. The other members of my group are:  
  
[[Category:Student]]
```

```
KNOWLEDGE ENGINEERING
```

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

```
Lead by: [[lead by::prof. Antoni Ligeza]]  
In room: [[room::B1 121]]  
Duration: [[duration::90]] minutes
```

3. Semantic MediaWiki - Inline queries

```
{{#ask: [[Category:Student]] [[Group::1400]]  
| ?Name  
| format=ul  
}}
```

```
{{#ask: [[Category:Student]] [[Group::1400]]
```

```
| ?Name
| ?Age
| format=table
| default=Group:14:00 is empty
| sort=Age,Name
| order=ASC
}}
```

4. Loki – Use Cases: Movie recommendation system

<http://loki.ia.agh.edu.pl/lokidev/movie:kontroll>

```
==== Kontroll ====
**Title**: [[title:=Kontroll]]

**Production year**: [[production_year:=2003]]

**Country**: [[country:=Hungary]]

**Director**: [[directed_by::person:nimrod_antal|Nimród Antal]]

**Genre**: [[genre::genres:thriller]]

**Staring**:

[[starring::person:sandor_csanyi|Sándor Csányi]] - [[character::person:bulcsu|Bulcsú]]

[[starring::person:zoltan_mucsi|Zoltán Mucsi]] - [[character::person:professor|Professor]]

**Langugage**: [[langugage:=hungarian]]

[[category:movie]]
```

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

```
====Sándor Csányi====
Sándor Csányi (born 19 December 1975) is a Hungarian actor. He starred in
[[movie:kontroll|Kontroll]] as the main character, [[person:bulcsu|Bulcsú]]
```

5. Loki – Semantic Web Standards

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

```
PREFIX wiki: <>
```

```

SELECT ?movie ?title ?genre
WHERE {
  ?movie category "movie".
  ?movie wiki:title ?title.
  ?movie wiki:genre ?genre.
  FILTER (?genre = "genres:thriller")
}

```

Results:

movie	title	genre
movie:kontroll	Kontroll	genres:thriller
movies:snatch	Snatch	genres:thriller

6. Loki – Reasoning

I recommend [Kontroll](#) and comedies:

```

<pl goal="wiki_category(M, 'movie'),interesting(M),write(M),nl,fail." scope="*">
interesting(M) :-
  wiki_attribute(M, title, 'Kontroll');
  wiki_relation(M, 'genre', 'genres:comedy').
</pl>

```