

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF ELECTRICAL ENGINEERING, AUTOMATICS, COMPUTER SCIENCE AND ELECTRONICS
APPLIED COMPUTER SCIENCEH



SEMANTIC WEB

Semantic Web Applications: Semantic Wikis

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1 Semantic MediaWiki – Categories: 1

<http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group1530/rkojta>

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

My name is Rafał Kojta. I am 24 years old.

Currently I study at AGH, faculty of electrical engineering.

I belong to group piw1530. The other members of my group are: Mateusz Krasucki

2 Semantic MediaWiki – Categories: 2

<http://loki.ia.agh.edu.pl/smw/index.php/AGH-UST/Subjects/piw2012semweb>

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

3 Semantic MediaWiki – Properties: 1

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

My name is [[Name::Rafał Kojta]] . I am [[Age::24]] years old.

Currently I study at AGH, faculty of electrical engineering.

I belong to group [[Group::piw1530]]. The other members of my group are: Mateusz Krasucki

4 Semantic MediaWiki – Properties: 2

Podstawy Inżynierii Wiedzy

Semantic Web

lead by: [[lead by::Weronika Adrian]]

room: [[room::C3 201]]

duration: [[duration::90]] min

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

5 Semantic MediaWiki – Inline Queries: 1

List of all members of this group:

```
{{#ask: [[Category:Student]] [[Group::1530]]
| format=ul
| ?Name
| ?Age
}}
```

6 Semantic MediaWiki – Inline Queries: 2

Table of all members of this group

```
{{#ask: [[Category:Student]] [[Group::1530]]
|?name
|?age
|default = brak
|format= table
| sort= age,name
| order=ascending , ascending
}}
```

7 Loki – Use Cases: Movie Recommendation System: 1

<http://loki.ia.agh.edu.pl/lokidev/movies:inception>

```
~~NOCACHE~~
```

```
===== Inception =====
```

```
{{:movies:tt1375666.jpg|}}
```

```
**Original Title**: [[original_title:=Inception]]
```

```
**English Title**: [[original_title:=Inception]]
```

```
**Genre**: [[genre::genres:sci-fi]]
```

```
**Year of production**: [[year_of_production:=2010]]
```

```
**Country of production**: [[country_of_production:=USA]]
```

```
**Writer**: [[writer::Christopher Nolan]]
```

```
**Director**: [[director::Christopher Nolan]]
```

```
**Stars**:
```

```
[[main_role::people:leonardo_dicaprio|Leonardo DiCaprio]] -
[[main_character::characters:cobb|Cobb]]
[[secondary_character::people:elen_page|Elen Page]] -
[[secondary_character::characters:adriane_adriane]]
**Time of Story**: [[time_of_story:=present]]
**Place of Story**: [[place_of_story:=Main Characters Head]], [[place_of_story:=Real World]]
**Language**: [[language:=english]]
[[category:movie| ]]
```

8 Loki – Use Cases: Movie Recommendation System: 2

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

```
[[category:actor| ]]
```

Leonardo Wilhelm DiCaprio (born [[bitrh_date:=1974 -11-11|July 9, 1956]]) is an American actor and film producer.

Born and raised in Los Angeles, California, DiCaprio started his career by appearing in television commercials prior to landing recurring roles in TV series such as the soap opera Santa Barbara and the sitcom [[movies:growing_pains|Growing Pains]] in the early 1990s. He made his film debut in the comedic sci-fi horror film [[movies:critters_3|Critters 3]] (1991). DiCaprio achieved international fame in [[persons:james_cameron|James Cameron's]] [[movies:titanic|Titanic]] (1997).

Since the 2000s, DiCaprio has been nominated for awards for his work in such films as [[movies:catch_me_if_you_can|Catch Me If You Can]] (2002), Gangs of New York (2002), [[movies:the_aviator|The Aviator]] (2004), [[movies:blood_diamond|Blood Diamond]] (2006), The Departed (2006), and [[movies:revolutionary_road|Revolutionary Road]] (2008). His latest films Shutter Island (2010) and , [[movies:inception|Inception]] (2010) rank among the biggest commercial successes of his career.

9 Loki - Semantic Web Standards

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

```
<pl format="sparql">
PREFIX wiki: <
SELECT ?title ?genre ?year
WHERE {
  ?movie category "movie".
  ?movie wiki:title ?title.
  ?movie wiki:genre ?genre.
  ?movie wiki:production_year ?year.
  FILTER (?year > "1980" && ?year < "2000")
  ORDER BY ASC(?genre)
}
</pl>
```

10 Loki - Reasoning

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

```
<pl scope="movie" goal="wiki_category(X, 'movie'), wiki_relation(X, 'genre', 'genres:drama'),
wiki_attribute(X, 'title', Y), wiki_attribute(X, 'title', Y),
wiki_attribute(X, 'language', 'danish'), write(Y), nl, fail">
</pl>
```