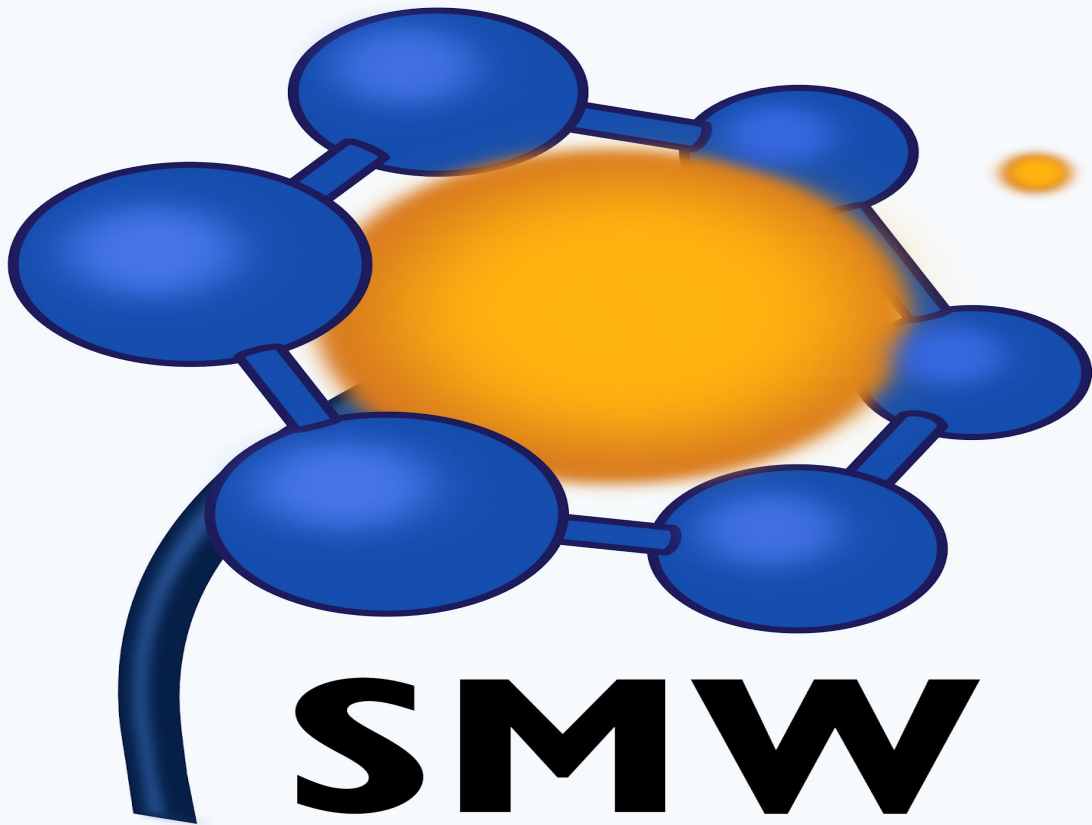# Introduction to Semantic MediaWiki

Robis Koopmans - Wikibase Solutions

Who am I?

My name is Robis Koopmans

I'm a developer at Wikibase Solutions,

I specialize in Front-end development,

I have a background in design

I'm an opensource and MediaWiki enthusiast.

Cessna

Select a year

Search in Magazin

Search ...

- Magazines
- Tech notes
- Model history

CESSNA*PILOTS* ASSOCIATION

January 2019 | www.cessna.org

Mike Steen's 1964 182G
Over Hood Canal

CESSNA*PILOTS* ASSOCIATION

February 2019 | w

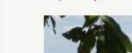CESSNA*PILOTS* ASSOCIATION

April 2019 | www.cessna.org

CESSNA*PILOTS* ASSOCIATION

May 2019 | www.c

Rooftop application

October 2020

40	28	29	30	01	02	03	04
41	05	06	07	08	09	10	11
42	12	13	14	15	16	17	18
43	19	20	21	22	23	24	25
44	26	27	28	29	30	31	01

Team Johan ✓

Team Frans ◉

Team Ben ◉

Opdracht:

14/39012

Taak titel:

MFC de Poel

Datum:

10/05/2020

Uren: 4

Omschrijving:

Team Johan

Ma	Di	Wo
05	06	07

14/39012

MFC de Poel

De Hoeve 2 Netersel

Wikibase Solutions Modules

Workflow, Data management, Planning.

		Algemeen		Lokaal 1		Lokaal 2	
WEEK 49							
DI	**01** dec	AFSPRAAK SUSAN		VOL-VCA 6	JSM		
				B-VCA 3	JSM		
WO	**02** dec	AFSPRAAK SUSAN				OA 3	BJM	VHF 5
DO	**03** dec			WFPr 2	JMRA	OA	←
VR	**04** dec			WFPr	←		
ZA	**05** dec						
ZO	**06** dec						
WEEK 50							
MA	**07** dec					HW3B 0
						HW3A 0
DI	**08** dec			OA 6	HAD	HW3B
						HW3A
WO	**09** dec	AFSPRAAK JOHAN		WFPr 1	JMRA		
		AFSPRAAK SUSAN					
DO	**10** dec			T&T 6	JSM	VVL-H 0	JMRA
				WFPr 4	JSM		
VR	**11** dec			T&T	←	VVL-H	←
ZA	**12** dec						
ZO	**13** dec						
WEEK 51							
MA	**14** dec			OA 4	HAD	VVL-H 0	JMRA
DI	**15** dec			OA	←	VVL-H	←
WO	**16** dec			B-VCA 0			
				VOL-VCA 0			
DO	**17** dec	VOL-VCA 7	JSM	WFPr 0	JMRA	BW 2	HAD
VR	**18** dec						

—

Front-end

Back-end

Template

You can see a wiki template as a **function**, it can have as many inputs as you like, inside the template it can do all kinds of magic and it will output HTML.

Input parameters ➜ **MediaWiki Template** ➜ **HTML output**

```
{{Template name
|Parameter 1=Value1
|Parameter 2=Value2
}}
```

```
{{#sub:{{{Parameter 1|}}}|-1 }}

<h1>{{{Parameter 2|}}}</h1>
```

```
1

<h1>Value2</h1>
```

Ingredients

We are using these ingredients

➜ **{{#Set:**

Set properties on MediaWiki pages

{{#Subobject:

Create objects

➜ **{{#Ask:**

Query those properties

{{#Show:

Show single property

Set function

The set functions let us set properties on our MediaWiki pages

```
{{#set:Property1=Value1|Property2=Value2}}
```

Shorthand for

```
[[Property1::Value1| ]]
[[Property2::Value2| ]]
```

Ask query

The ask function lets us query properties we set with the set function

```
{{#ask:[[Property::Value]]
|?Printout
|Parameter=value
}}
```

The Ask Query

Main query

Class of pages to return

[[Class::News item]]   **[[Type::!Test]]**   **[[Modification date::>1-1-2015]]**

Exclude

Don't return test pages

Filter by date

Return pages modified after the first day of 2015

The Ask Query Printouts

?Title — Return the Title property of the found page

?-News item — Return the pages with a property named 'News item' with the found page as value

?Modification date#-F[Y/m/d H:i:s] — Return the Modification date of the page preformatted F[Y/m/d H:i:s]

?-News item.Title = ImageTitle — Return the Title of a pages with a property named 'News item' with the found page as value and rename the property to 'ImageTitle'

The Ask Query Parameters

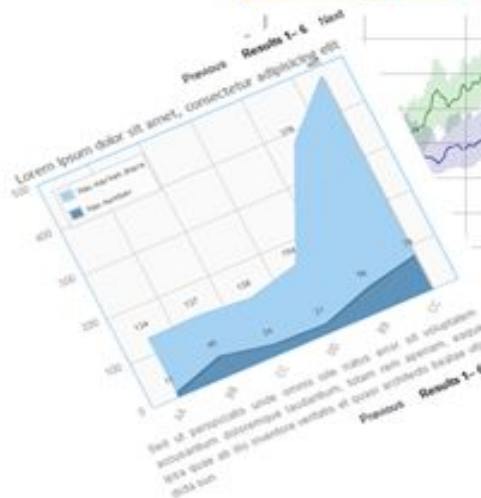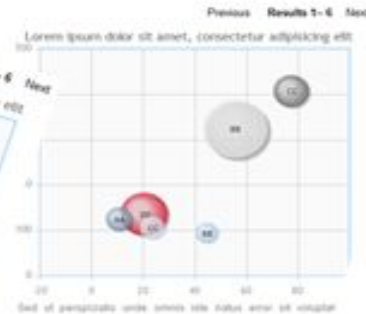|	
Limit=20	Return a maximum of 20 results
Format=Table	The result format to use for displaying the output
Link=None	Don't create links for page type properties
Sort=Modification date	Sort the results by Modification date

Result formats

News item page

Let say we want to create a simple news section, this is how the wiki page source code for each news item could look like.

```
{{News item        <!--- the name of the template -->
|Title=My first news item
|Text content=This is my first news item content
}}
```

My first news item

This is my first news item content

Example result

If we visit the page it will display a single news item

Latest news

My third news item

This is my third news item content **Read more**

My second news item

This is my second news item cont **Read more**

My first news item

This is my first news item content **Read more**

Example news section

For our news section we want a nice overview displaying the latest news items.

News item Template

Setting the properties inside the 'News item' template

```
{{#set:Class=News item
|Title={{{Title|}}}
|Excerpt={{#sub:{{{Text content|}}}|0|33}}
}}
```

{{#set:

This will store the News items Title and the first part of the Text content

Set property type

You need to set the type of the property

//YourWiki.com/Property:Property name

```
[[Has type::Text]]
```

News item Template

Finished template

```
<includeonly>
{{#set:Class=News item
|Title={{{Title|}}}
|Excerpt={{#sub:{{{Text content|}}}|0|33}}
}}
</includeonly>
<div class="news--card">
     <h1>{{{Title|}}}</h1>
     <p>{{{Text content|}}}</p>
 </div>
```

Latest news

My third news item

This is my third news item content **Read more**

My second news item

This is my second news item cont **Read more**

My first news item

This is my first news item content **Read more**

{{#ask

```
{{#ask:[[Class::News item]]
|?=Page
|?Title
|?Excerpt
|?Modification date
|limit=3
|sort=Modification date
|order=desc
|format=template
|template=News feed item
|named args=yes
|link=none
}}
```

Latest news

My third news item

This is my third news item content **Read more**

My second news item

This is my second news item cont **Read more**

My first news item

This is my first news item content **Read more**

{{#ask

```
<div class="news">
<h1>Latest news</h1>
{{#ask:[[Class::News item]]
|?=Page
|?Title
|?Excerpt
|?Modification date
|limit=3
|sort=Modification date
|order=desc
|format=template
|template=News feed item
|named args=yes
|link=none
}}
</div>
```

News feed item Template

Result Template

```
<div class="news__item--card">
  <h3>{{{Title|}}}</h3>
  <small>
     {{#time: d M Y|{{{Modification date|}}} }}
  </small>
  <p>
     {{{Excerpt|}}}
     <span>[[{{{Page|}}}| Read more]]</span>
  </p>
</div>
```

My first news item

This is my first news item content **Read more**

JavaScript Ask Query

Example

```
var params = {
  action: 'ask',
  query: '[[Class::News item]][[Title::~*'+input.value+'*]]|?Title|sort=Title|limit=20|order=desc',
  format: 'json'
},
var api = new mw.Api();

api.get( params ).done( function ( data ) {

  //do stuff with data

})
```