Semantic MediaWiki
Current Status

Karsten Hoffmeyer, September 26, 2019

SMWCon 2019
September 25 to 26, Paris
Current Status
Semantic MediaWiki 3.1
How you can contribute?
Current Status of <semantic-mediawiki.org>
Extending and improving documentation

- Ongoing effort by a few community members
- Getting the missing documentation in https://www.semantic-mediawiki.org/wiki/semantic-mediawiki.org:Documentation_status
- Less overwhelming in size and information
- More annotations, queries and templates for easier display and exploration
- Integration with the “Translate” extension for general information pages
Current Status of selected extensions to Semantic MediaWiki
New extension

- Semantic Bundle
  - Allows for easy installation and invoking
  - Revival of the somewhat similar precursing bundle
  - Focus on semantic extensions only
  - Released earlier in September 2019

Source at https://github.com/SemanticMediaWiki/SemanticBundle
New extension

- Semantic Approved Revs
  - Allows to semantically handle properties related to approval processes (by, date, revision and status)
  - Moves integration with of Approved Revs functionality out of Semantic Extra Special Properties
  - First release planned for October 2019

→ Source at https://github.com/SemanticMediaWiki/SemanticApprovedRevs
Revived extension

- Semantic Tasks
  - Provides email notifications and reminders for semantically handled tasks
  - Extended by more properties for handling task processes
  - Modernized and refactored code
  - 2.0.0 release planned for October/November 2019

→ Source at https://github.com/SemanticMediaWiki/SemanticTasks
Abandoned extension

• Semantic Comments
  • Allowed to display and manage comments semantically
  • Last supported Semantic MediaWiki 2.5.x
  • Replaced by the CommentStreams extension also providing integration with Semantic MediaWiki and even more goodness

→ Source at https://gerrit.wikimedia.org/g/mediawiki/extensions/CommentStreams
Semantic MediaWiki

Current Status

Other extensions

• Semantic Scribunto (2.1.0)
• Semantic Result Formats (3.1.0)
  • “spreadsheet” format added, replacing “excel” format
  • “gantt” format added
• Semantic Meta Tags (2.0.0)
• Semantic Glossary (3.0.0)
Other extensions

- Semantic Interlanguage Links (2.0.0)
- Semantic Extra Special Properties (2.0.0)
- New release 3.0.0 imminent → Semantic Approved Revs
- Semantic Compound Queries (2.1.0)
- Semantic Cite (2.1.0)
- Semantic Breadcrumb Links (2.0.0)
Current Status of Semantic MediaWiki
Releases since SMWCon 2018

• SMW 3.0.x – 2 releases
  
  3.0.0, 3.0.1, 3.0.2

• SMW 3.1.x – 1 release
  
  3.1.0
Semantic MediaWiki

Current Status

GitHub Commits

July 2017 – June 2018

822 commits
17 contributors

July 2018 – June 2019

1020 commits
20 contributors

Sources:
- git log 080c188c795a4cfccf87b97c497825c768eccb69...5c1fbd5687c9d1e16033e4e05d8dacaa0c3d6bd0 --pretty=oneline | wc -l
- git shortlog -sn 080c188c795a4cfccf87b97c497825c768eccb69...5c1fbd5687c9d1e16033e4e05d8dacaa0c3d6bd0
Semantic MediaWiki

Current Status

Integration Tests and Assertions

October 2018  –  SMW 3.0.0

6,808 tests
17,978 assertions

September 2019  –  SMW 3.1.0

7,512 tests
20,041 assertions

Source: https://travis-ci.org/SemanticMediaWiki/SemanticMediaWiki
Semantic MediaWiki

Current Status

Installation Processes

December 2018

~ 116,000 total
~ 1,900 month

September 2019

~ 139,000 total
~ 2,000 month

Source: https://packagist.org/packages/mediawiki/semantic-media-wiki/stats - Start in January 2014
Semantic MediaWiki
Current Status

Installation Processes

Installs

<table>
<thead>
<tr>
<th></th>
<th>Overall 139,107</th>
<th>Last 30 days 2,167</th>
<th>Last 24h 29</th>
</tr>
</thead>
</table>

Daily installs, averaged monthly

Source: https://packagist.org/packages/mediawiki/semantic-media-wiki/stats
October 2018 – September 2019

SMW 3.0.0 – SMW 3.1.0

850 commits
19 contributors

Sources:
- git log abdec882fc57dd5b54cab15e8f419056164ee66a...0acc38fba2e13198f85060d08fbb055ec5452ec0 --pretty=oneline | wc -l
- git shortlog -sn abdec882fc57dd5b54cab15e8f419056164ee66a...0acc38fba2e13198f85060d08fbb055ec5452ec0
Tested Compatibility

- MediaWiki 1.31.x to MediaWiki 1.33.x
- PHP 7.0.x to PHP 7.3.x
- MySQL/MariaDB relational stores 5+
- Several RDF stores (Blazegraph 1.5.2+, etc.)
- ElasticSearch store 5.6+
Code Coverage
Integration Testing

September 2019 – SMW 3.1.0

7,512 tests
+ 9.4 %

20,041 assertions
+ 11.3 %

Source: https://travis-ci.org/SemanticMediaWiki/SemanticMediaWiki
New features and enhancements:

- Brings upgrade status screens [#3738, #4026]
  - Error screen (no schema update)
  - Maintenance screen (schema update)
- Adds new maintenance scripts (last resort maintenance)
  - purge entity cache [#3905]
  - update query dependencies [#4137]
- Adds new script options to maintenance script “rebuildElasticIndex.php”:
  - --only-update [#4158],
  - --auto-recovery [#3922] and
  - --with-maintenance-log [#3922]
New features and enhancements:

- Adds new script options to maintenance script “rebuildData.php”: --auto-recovery[#3922] and --namespace[#3960]
- Outdated query links are now removed by maintenance script “rebuildData.php”[#3642]
- Embedded query updates feature refactored and improved [#3644, #3831]
- Semantic statistics extended and enhanced [#3686]
Brings replication monitoring for “SMWElasticStore” backend [#3697, #3700, #3713]
- Check for missing entities
- Check for outdated entities
  → Status indicator with balloon tip

Adds replication status information to special page “SemanticMediaWiki” [#4023]

Adds new maintenance script “rebuildElasticMissingDocuments.php” for rebuilding missing entities [#4114]

Adds new script options to maintenance script “removeDuplicateEntities.php”:
- --report-runtime [#4151] and
- --with-maintenance-log [#4151]

Allows usage of CirrusSearch at the same time [#3940]
Semantic MediaWiki
Semantic MediaWiki 3.1.0

- Adds support for improved views to result format “table” and “broadtable” [#4114]

| class=smwtable-clean |

- Adds support for new separators to result format “table” and “broadtable” [#3793]

| sep=ul
| or
| sep=ol |

- Adds support for a new display formatter [#3650]

| ?HasImage#noimage |

- Result format “templatefile” harmonized with other result formats [#4282]
- Adds special page “Missing redirect annotations” [#3720]
- Adds support for attachment links [#3643]
  - In factbox with extra tab [#3652, #3661]
  - Info about local storage [#4147]
- Displays “further results” to inline queries on remote sources [#4143]
- Allows to disable automatic linking of properties [#4042]
  [[MyProperty::@@@|#]]
- Allows to hide in-text annotations for data values containing a wiki link [#3674]
  [[Has text::[[Main Page]]]]
• Adds support for constraint schemas
  – Annotated to a property page with
    [[Constraint schema::Constraint::User namespace]]
  – Created with a profile schema of type
    PROPERTY_CONSTRAINT_SCHEMA in the
    “smw/schema” namespace
  – Available schema types
    • allowed_namespace [#3746]
    • unique_value_constraint [#3908]
    • non_negative_integer [#3970]
    • must_exists [#3981]
    • single_value_constraint [#4010]
    • shape_constraint [#4069]
    • custom_constraint [#3969]
Semantic MediaWiki
Semantic MediaWiki 3.1.0

- Adds special property “Processing error type” [#3792]
- Adds special page “Constraint error list” [#4047]
- Adds support for sequence maps to enforce [#4226]
  - Annotated to a property page with [[Profile schema::Profile:Sequence]]
  - Created with a profile schema of type PROPERTY_PROFILE_SCHEMA in the “smw/schema” namespace
- Adds schema type PROPERTY_GROUP_SCHEMA [#3749]
Many more features and changes

How can you contribute?
Semantic MediaWiki

How can you contribute?

→ Where are many ways to contribute

• Create a quality feature requests (→ click here)
• File quality bug reports on issues you encounter (→ click here)
• Contribute code with tests, tests and tests (→ click here)
• Become part of the testers group and test (→ click here)
Where are many ways to contribute (cont.)

- Add or enhance documentation (→ click here)
- Add or enhance translations (→ click here)
- Answer questions and participate in discussions (→ click here)
- Organize events (→ click here)
Thank you!

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