
jsonpath-rw-ext Documentation

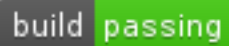
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Extensions for JSONPath RW

jsonpath-rw-ext extends json-path-rw capabilities by adding multiple extensions. 'len' that allows one to get the length of a list. 'sorted' that returns a sorted version of a list, 'arithmetic' that permits one to make math operation between elements and 'filter' to select only certain elements of a list.

Each extensions will be proposed [upstream](#) and will stay here only if they are refused.

- Free software: Apache license
- Documentation: <https://python-jsonpath-rw-ext.readthedocs.org/en/latest/>
- Source: <http://github.com/sileht/python-jsonpath-rw-ext>

1.1 Quick Start

At the command line:

```
$ pip install jsonpath-rw-ext
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv jsonpath-rw-ext
$ pip install jsonpath-rw-ext
```

To replace the jsonpath_rw parser by this one with:

```
import jsonpath_rw_ext
jsonpath_rw_ext.parse("$.foo").find(...)
```

Or:

```
from jsonpath_rw_ext import parser
parser.ExtentedJsonPathParser().parse("$.foo").find(...)
```

Shortcut functions for getting only the matched values:

```
import jsonpath_rw_ext as jp
print jp.match('$.cow[*]', {'cow': ['foo', 'bar'], 'fish': 'foobar'})
# prints ['foo', 'bar']

print jp.match1('$.cow[*]', {'cow': ['foo', 'bar'], 'fish': 'foobar'})
# prints 'foo'
```

The jsonpath classes are not part of the public API, because the name/structure can change when they will be implemented upstream. Only the syntax *shouldn't* change.

1.2 Extensions

name	Example
len	<ul style="list-style-type: none"> \$.objects.'len'
sub	<ul style="list-style-type: none"> \$.field.'sub(/foo\+(.+)/, \1)'
split	<ul style="list-style-type: none"> \$.field.'split(+, 2, -1)' \$.field.'split(sep, segment, maxsplit)'
sorted	<ul style="list-style-type: none"> \$.objects.'sorted' \$.objects[<i>some_field</i>] \$.objects[<i>some_field</i>/<i>other_field</i>]
filter	<ul style="list-style-type: none"> \$.objects[?(@<i>some_field</i> > 5)] \$.objects[?<i>some_field</i> = "foobar"] \$.objects[?<i>some_field</i> ~ "regexp"] \$.objects[?<i>some_field</i> > 5 & <i>other</i> < 2]
arithmetic (-+*/)	<ul style="list-style-type: none"> \$.foo + "_" + \$.bar \$.foo * 12 \$.objects[*].cow + \$.objects[*].cat

1.3 About arithmetic and string

Operations are done with python operators and allows types that python allows, and return [] if the operation can be done due to incompatible types.

When operators are used, a jsonpath must be fully defined otherwise jsonpath-rw-ext can't know if the expression is a string or a jsonpath field, in this case it will choose string as type.

Example with data:

```
{
  'cow': 'foo',
  'fish': 'bar'
}
```

cow + fish returns **cowfish**

\$.cow + \$.fish returns **foobar**

\$.cow + “_” + \$.fish returns **foo_bar**

\$.cow + “_” + fish returns **foo_fish**

1.4 About arithmetic and list

Arithmetic can be used against two lists if they have the same size.

Example with data:

```
{ 'objects': [
  { 'cow': 2, 'cat': 3 },
  { 'cow': 4, 'cat': 6 }
] }
```

\$.objects[*].cow + \$.objects[*].cat returns **[6, 9]**

CHAPTER 2

Contributing

If you would like to contribute to the development, just send github pull requests.

CHAPTER 3

Indices and tables

- `genindex`
- `modindex`
- `search`