

☑ Preprocessing JSON



Some $\it JSON\ preprocessing\ capabilities\ are\ included\ in\ PlantUML\ , and available\ for\ all\ diagrams.$

That extends the current preprocessing.

If you are looking for how to display JSON data: see rather Display JSON Data.

⊼ ☑ Variable definition

In addition to existing type (*String* and *Integer*), you can define JSON variable.

Example:

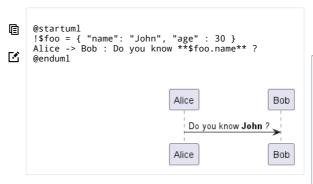
```
!$foo = { "name": "John", "age" : 30 }
```

Corresponding of this structure:



⊼ ☑ Access to data

Once a variable is defined, you can access to its members:



Variable definition
Access to data
Complex structures
Loading data
Loop [foreach]
Full Example
Self-descriptive example
'+%get_json_keys+' builtin
function

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```
⊼ ☑ Complex structures
```

`+ %json_key_exists+` builtin function

`+ %size+` builtin function

It is possible to use complex JSON objects and arrays, with definition on several lines.

Let \$foo, the structure:

You can acess to the values:

- \$foo.employees[0].name
- \$foo.employees[0].salary

Or using intermediate variables:

- !\$attribute_1="name"
- !\$attribute_2="salary"

to acess to the values:

- \$foo.employees[0][\$attribute_1]
- \$foo.employees[0][\$attribute_2]

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Some standard function provides a way to load JSON object from URL or local files:

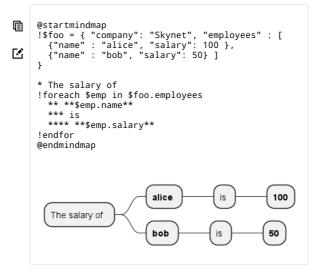
```
!$foo = %loadJSON("http://foo.net/users/list.json")
!$foo2 = %loadJSON("myDir/localFile.json")
```

Available since 1.2021.15



⊼ ☑ Loop [foreach]

If you define array, you can loop over.



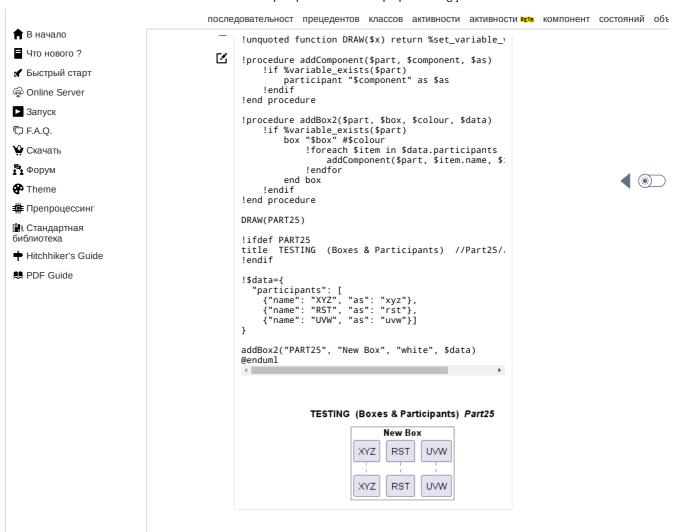
[SW] Some remarks

- for or better foreach ? -> for each
- It would be nice to also have "break" and "continue"
- It would be nice to also have the for or while loop with a standard variable

⊼ ☑ Full Example

From a example worked in a forum question, with this JSON structure:

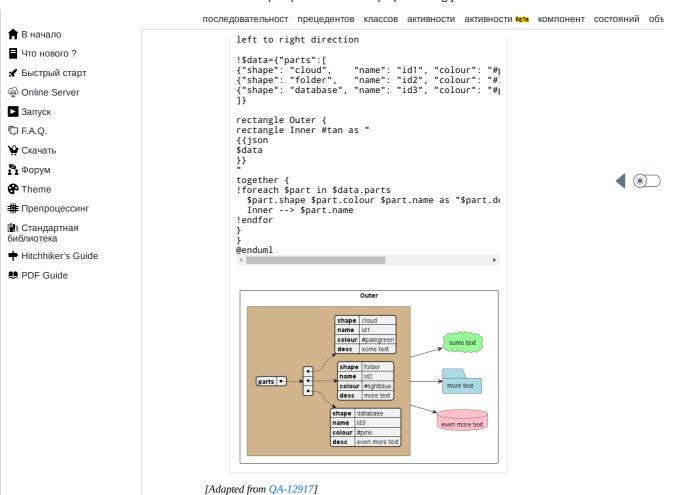
```
@startjson
      data":
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                                                                                   @endjson
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```



△ ✓ Self-descriptive example

Here is a self-descriptive example:





─ ☑ %get_json_keys builtin function

You can use \get_json_keys to get all the keys of one level on a JSON structure.

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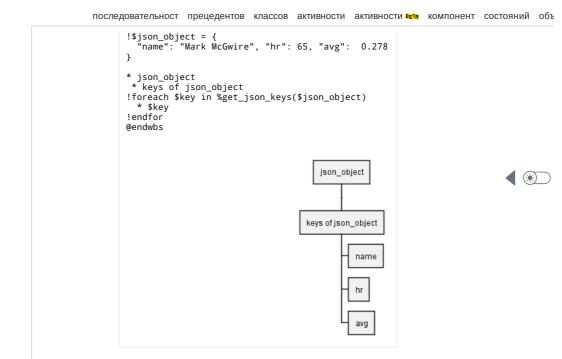
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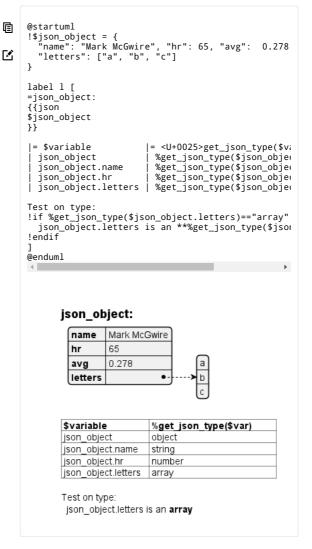
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[Ref. QA-15360, QA-15423]

¬ ☑ %get_json_type builtin function

You can use <code>%get_json_type</code> to get the type of an element of a JSON structure (returns a string).



[Ref. QA-15360]

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You can use %json_key_exists to know if a key exists on a JSON structure (returns a boolean).

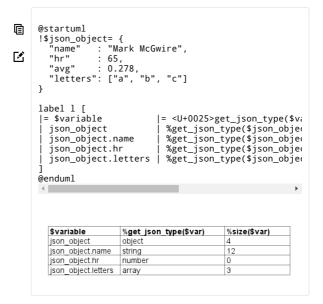
[Ref. QA-15423]

⊼ ☑ %size builtin function

You can use $\,\mbox{\it \%size}\,$ to know the size of different elements on a JSON structure.

For each type here are the return value:

Туре	Return value
JSON Object	the number of pairs it contains
JSON Array	the number of values it contains
string value	the number of characters it contains
numeric value	zero
true/false/null	zero



[Ref. QA-14901]

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