mozrepl Documentation

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CHAPTER 1

pymozrepl Firefox MozREPL Add-on Python Interface .

1.1

- firefox mozrepl .
- firefox mozrepl .
- firefox mozrepl Python .
- javascript object .
- ...

1.2

, mozrepl Firefox Add-on addons.mozilla.org , .

```
>>> import mozrepl
>>> repl = mozrepl.Mozrepl()
>>> repl.execute('window')
[object ChromeWindow] - {0: {...}, 1: {...}, 2: {...}, 3: {...}, 4: {...}, close: function() {...}, s
>>> list(repl.execute(u'["a", 1, 2, 3, 4]'))
[u'a', 1, 2, 3, 4]
>>> repl.execute('content').document.title
u'pymozrepl \\u2014 mozrepl 0.1a8 documentation'
>>> import mozrepl.util
>>> for cookie in mozrepl.util.getCookiesFromHost(repl, '.cpan.org'):
...     break
...
>>> cookie
Cookie(version=0, name=u'css', value ...
```

1.3

: http://pymozrepl.readthedocs.org/index.html.

1.4

changelog.rst .

1.5

GPL v3

1.6

<w7dn1ng75r@gmail.com>

1.7

2.7 .

1.8

.

1.9

: https://github.com/Thestars3/pymozrepl.

CHAPTER 2

Note: mozrepl 2.7.

2.1 mozrepl

pip , .

```
$ pip install mozrepl
```

PyPI .

```
$ python setup.py install
```

2.2

PyPI Github .

CHAPTER 3

3.1

class `mozrepl.`**`Mozrepl`**(*port=4242*, *host=u'127.0.0.1'*)

Bases: `object`

Firefox MozREPL Add-on .

with .

Parameters

- **port** (*int*) – mozrepl Firefox Add-on .
- **host** (*unicode*) – mozrepl Firefox Add-on .

`DEFAULT_HOST` **= u'127.0.0.1'**

`DEFAULT_PORT` **= 4242**

`connect`(*port=None*, *host=None*)

mozrepl Firefox Add-on .

.

Parameters

- **port** – mozrepl Firefox Add-on . , .
- **port** – mozrepl Firefox Add-on . , .

`disconnect`()

mozrepl Firefox Add-on .

, .

`execute`(*command*)

.

> **Attention:** , 'repl.execute("repl.home")()' . , 'repl.execute("repl.home.call")(Raw("repl"))' , 'repl.execute("repl").home()' pymozrepl .

> **Attention:** pymozrepl . Firefox mozrepl .

> **Attention:** javascript repl object .

Parameters **command** (*unicode*) – .

Raises **mozrepl.Exception** mozrepl Firefox Add-on .

Returns `Object` : mozrepl Firefox Add-on object .

Returns `Array` : mozrepl Firefox Add-on array .

Returns `Function` : mozrepl Firefox Add-on function .

Returns string, number, bool python (int, bool, unicode) .

class `mozrepl.`**`Exception`**(*error*)

Bases: `exceptions.Exception`

mozrepl Firefox Add-on .

javascript Error . , .

, javascript object , __getitem__ .

__contains__ .

3.2 type

class `mozrepl.type.`**`Object`**(*repl*, *uuid*)

Bases: `object`

javascript object .

- (__getitem__, __setitem__, __delitem__).
- (__getattr__, __setattr__, __delattr__).
- __eq__, __contains__ .

, , .

.

```
>>> import mozrepl
>>> repl = mozrepl.Mozrepl()
>>> a = repl.execute('repl')
>>> b = repl.execute('repl')
>>> a == b # __eq__
True
>>> '_name' in a # __contains__
True
>>> a._name # __getattr__
u'repl'
>>> a['_name'] # __getitem__
u'repl'
>>> a['_name'] = 'pymozrepl' # __setitem__
>>> a['_name']
u'pymozrepl'
>>> del a._name # __delattr__
>>> a._name
None
>>> for key, value in a: # __iter__
...
```

`__iter__`()

javascript Object iterator .

Yield value; '__iterator__' , Iterator .

Yield , (key, value) .

__unicode__()

.

, , . , .

```
>>> import mozrepl
>>> repl = mozrepl.Mozrepl()
>>> obj = repl.execute('window')
>>> unicode(obj)
u'__pymozrepl_c8d7323280c54d09809e2dd7d34d1c70.ref["1e1c7ae3-c1fc-4664-b57f-1281bdc1c996"]'
>>> repl.execute('var value = {reference}'.format(reference=obj))
```

classmethod makeNotinited(*repl*)

.

Parameters **repl** (Mozrepl) – mozrepl.Mozrepl

Returns Object .

Return type Object

class mozrepl.type.**Array**(*repl*, *uuid*)

Bases: mozrepl.type.object.Object

javascript array .

__len__, __iter__ .

.

```
>>> import mozrepl
>>> repl = mozrepl.Mozrepl()
>>> array = repl.execute('[1,2,3,4,5,10]')
>>> len(array) # __len__
6
>>> list(array) # __iter__
[1, 2, 3, 4, 5, 10]
```

__iter__()

javascript Object iterator .

Yield value; 0 ~ yield.

class mozrepl.type.**Function**(*repl*, *uuid*)

Bases: mozrepl.type.object.Object

javascript function .

.

```
>>> import mozrepl
>>> repl = mozrepl.Mozrepl()
>>> func = repl.execute('(function(){ return "mozrepl"; })') #__call__
>>> func()
u'mozrepl'
>>> repl.execute('window').toString() #__call__
u'[object ChromeWindow]'
```

__call__(**args*)

javascript Function object .

`convertToJs()` .

class `mozrepl.type.Raw`(*code*)

.

`convertToJs()` , .

Parameters **code** (*unicode*) – .

3.3 util

`mozrepl.util.convertToJs`(*obj*)

javascript .

Parameters **obj** (`Object`, `Function`, `Array`, `Raw` python .) – . list tuple , `convertToJs()` .

Returns JSON string

Return type unicode

`mozrepl.util.getAllTabs`(*repl*)

.

Parameters **repl** (`Mozrepl`) – mozrepl .

Yield `Object` .

`mozrepl.util.getCookiesFromHost`(*repl*, *host*)

Returns an generator of cookies that would be returned to a given host, ignoring the cookie flags isDomain, isSecure, and isHttpOnly. Therefore, if the specified host is "weather.yahoo.com", host or domain cookies for "weather.yahoo.com" and "yahoo.com" would both be returned, while a cookie for "my.weather.yahoo.com" would not.

Parameters

- **repl** (`Mozrepl`) – mozrepl.Mozrepl
- **host** (*unicode*) – The host unicode string to look for, such as "google.com". This should consist only of the host portion of the URI and should not contain a leading dot, port number, or other information.

Yield An cookielib.Cookie objects representing the matching cookies.

`mozrepl.util.openTab`(*repl*, *url*, *isPrivate=False*, *inNewWindow=False*, *inBackground=False*, *isPinned=False*)

Opens a new tab. The new tab will open in the active window or in a new window, depending on the inNewWindow option.

Parameters

- **repl** (`Mozrepl`) – mozrepl .
- **url** (*unicode*) – String URL to be opened in the new tab. This is a required property.
- **isPrivate** (*bool*) – bool which will determine whether the new tab should be private or not. If your add-on does not support private browsing this will have no effect. See the private-browsing documentation for more information. Defaults to false.
- **inNewWindow** (*bool*) – If present and true, a new browser window will be opened and the URL will be opened in the first tab in that window. This is an optional property.

- **inBackground** (*bool*) – If present and true, the new tab will be opened to the right of the active tab and will not be active. This is an optional property.
- **isPinned** (*bool*) – If present and true, then the new tab will be pinned as an app tab.

CHAPTER 4

4.1 v1.2.3

- , 'Exception AttributeError: "'Mozrepl' object has no attribute '_baseVarname"' in <bound method Mozrepl.__del__ of Mozrepl(port=4242, host=u'127.0.0.1')> ignored' . [tb69wn6127]

4.2 v1.2.2

- Mozrepl with exit . [tb69wn6127]

4.3 v1.2.1

- __iter__ 'Iterator' . [tb69wn6127]
- , json . [tb69wn6127]

4.4 v1.2.0

- mozrepl.util openTab . [tb69wn6127]

4.5 v1.1.3

- tpye.Object __repr__ . [tb69wn6127]

4.6 v1.1.2

- Firefox MozREPL(Firefox MozREPL 1.1.2) , 'mozrepl.exception.Exception: repl is not defined' . [tb69wn6127]

4.7 v1.1.1

- Firefox MozREPL 1 , 'ValueError: No JSON object could be decoded' . [tb69wn6127]
- Object '__iterator__' iter , '__iterator__' . [tb69wn6127]
- Object repr , null, object '[Exception!]' . [tb69wn6127]
- Exception 'TypeError: 'NoneType' object is not callable' . [tb69wn6127]
- Exception . [tb69wn6127]
- execute , "KeyError: u'refUuid"' . [tb69wn6127]
- undefined, null . [tb69wn6127]

4.8 v1.1.0

- mozrepl.util.getAllTabs . [tb69wn6127]
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4.9 v1.0.6

- , . [tb69wn6127]
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4.10 v1.0.5

- mozrepl.Exception __getitem__, __contains__ . [tb69wn6127]

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- mozrepl.Mozrepl.execute -inf long . [tb69wn6127]
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  - . [tb69wn6127]
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4.13 v1.0.2

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4.14 v1.0.1

- mozrepl.util.convertToJs bool . [tb69wn6127]

4.15 v1.0.0

- . [tb69wn6127]
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4.16 v0.1b7

- Object makeNotinited . [tb69wn6127]

4.17 v0.1b6

- Mozrepl.execute , 'UnicodeEncodeError: 'ascii' codec can't encode character' . [tb69wn6127]

4.18 v0.1b5

- mozrepl.util.convertToJs dict . [tb69wn6127]
- mozrepl.type.Raw mozrepl.util.convertToJs . [tb69wn6127]

4.19 v0.1b4

- object reference , Object.__unicode__ . [tb69wn6127]

4.20 v0.1b3

- util.getCookiesFromHost . [tb69wn6127]

4.21 v0.1b2

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- util.getCookiesFromHost . [tb69wn6127]
- Mozrepl.execute 'IOError: [Errno 24] Too many open files' . [tb69wn6127]

4.22 v0.1b1

- Object iterator . [tb69wn6127]

4.23 v0.1a14

- execute , Object . [tb69wn6127]

4.24 v0.1a13

- Mozrepl.execute for while js . [tb69wn6127]
- Firefox MozREPL 1.1.2 UNICODE (ASCII 'socket.error: [Errno 32] Broken pipe') . [tb69wn6127]

4.25 v0.1a12

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  - nolastcmd . [tb69wn6127]
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4.30 v0.1a7

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4.31 v0.1a6

- mozrepl.Mozrepl __repr__ . [tb69wn6127]
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4.33 v0.1a4

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4.34 v0.1a3

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- Mozrepl.execute object . [tb69wn6127]
- Mozrepl.execute function . [tb69wn6127]

4.35 v0.1a2

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- *search*

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