
mozrepl Documentation

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pymozrepl Firefox MozREPL Add-on Python Interface . mozrepl . :

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

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>.

Note: mozrepl 2.7.

2.1 mozrepl

pip , .

```
$ pip install mozrepl
```

PyPI .

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

2.2

PyPI [Github](#) .

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 inNewWin-
    dow 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.

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]
- mozrepl.Mozrepl , . [tb69wn6127]
- object repr , 'TypeError: __repr__ returned non-string' . [tb69wn6127]

4.9 v1.0.6

- , . [tb69wn6127]
- mozrepl.util.getCookiesFromHost . [tb69wn6127]

4.10 v1.0.5

- mozrepl.Exception __getitem__, __contains__ . [tb69wn6127]

4.11 v1.0.4

- mozrepl.Mozrepl.execute , ('repl\d*>') . [tb69wn6127]
- mozrepl.Mozrepl.execute -inf long . [tb69wn6127]
- . [tb69wn6127]
 - mozrepl.Exception javascript . [tb69wn6127]
 - . [tb69wn6127]
- mozrepl.Mozrepl.connect , . [tb69wn6127]

4.12 v1.0.3

- mozrepl.util.convertToJs json . [tb69wn6127]

4.13 v1.0.2

- `mozrepl.util.convertToJs long` . [\[tb69wn6127\]](#)

4.14 v1.0.1

- `mozrepl.util.convertToJs bool` . [\[tb69wn6127\]](#)

4.15 v1.0.0

- `.` [\[tb69wn6127\]](#)
- `mozrepl.util.getCookiesFromHost` . [\[tb69wn6127\]](#)

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

- tuple list javascript . [tb69wn6127]
- type.Function.__call__ kwargs . [tb69wn6127]
- 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

- mozrepl.Mozrepl.execute type . [tb69wn6127]
 - nolastrcmd . [tb69wn6127]
 - noreturn _rawExecute . [tb69wn6127]
 - repr _rawExecute . [tb69wn6127]

4.26 v0.1a11

- . [tb69wn6127]

4.27 v0.1a10

- type.Function __call__ . [tb69wn6127]

4.28 v0.1a9

- `js object __del__` . [tb69wn6127]
- `js array __len__` . [tb69wn6127]
- `js object __contains__, __eq__` . [tb69wn6127]

4.29 v0.1a8

- `array type` . [tb69wn6127]
- `util.convertToCmd` . [tb69wn6127]

4.30 v0.1a7

- `mozrepl.type.Function` ‘TypeError: context is undefined’ . [tb69wn6127]

4.31 v0.1a6

- `mozrepl.Mozrepl __repr__` . [tb69wn6127]
- `mozrepl.type.Object` ‘ReferenceError: x is not defined’ . [tb69wn6127]
- `mozrepl.util.convertToJs` . [tb69wn6127]
- **`mozrepl.type.Function __call__`** . [tb69wn6127]
 - . [tb69wn6127]
 - ‘ . [tb69wn6127]
 - `int, None, float, str, mozrepl.type.Object` . [tb69wn6127]

4.32 v0.1a5

- `mozrepl.type.Function` ‘TypeError: must be type, not Function’ . [tb69wn6127]
- `mozrepl.Mozrepl.for_` . [tb69wn6127]
- `mozrepl.Mozrepl.execute` `Array` . [tb69wn6127]
- `mozrepl.type.Object` , . [tb69wn6127]

4.33 v0.1a4

- `Mozrepl.execute` `float` . [tb69wn6127]
- `Mozrepl.execute` `string` . [tb69wn6127]

4.34 v0.1a3

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

4.35 v0.1a2

- Mozrepl.execute mozrepl string “ , . [tb69wn6127]

4.36 v0.1a1

- pymozrepl . [tb69wn6127]

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