
2gis Documentation

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python-2gis is a python (and pythonic) library for accessing the [2GIS API](#).

1.1 Installation

1.1.1 Easy way

Just install it with `pip`:

```
pip install 2gis
```

or `easy_install`:

```
easy_install 2gis
```

1.1.2 Sources

Sources is available on GitHub.

Clone the public repository:

```
git clone git://github.com/svartalf/python-2gis.git
```

Download the tarball:

```
$ curl -OL https://github.com/svartalf/python-2gis/tarball/master
```

Or, download the zipball:

```
$ curl -OL https://github.com/svartalf/python-2gis/zipball/master
```

Once you have a copy of the source, you can embed it in your Python package, or install it into your site-packages easily:

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

1.2 Usage

Using a 2GIS API is very simple.

Begin with importing `dgis` module

```
>>> import dgis
```

Create an API object and give to it your unique API key

```
>>> api = dgis.API('1234567890')
```

You can call all the 2GIS API methods like this

```
>>> projects = api.project_list()
```

Now, `projects` is a big list with all available `projects`.

All parameters for 2GIS API endpoints are passed as an keyword arguments to the respective library' methods

```
>>> cities = api.city_list(project_id=11)
```

You should not pass parameters `output`, `callback`, `key` and `version` to all the methods, library do this internally.

1.2.1 API endpoints

Projects

Documentation: <http://api.2gis.ru/doc/firms/list/project-list/>

No parameters is allowed.

Examples

```
api.project_list()
```

Cities

Documentation: <http://api.2gis.ru/doc/firms/list/city-list/>

Allowed parameters:

- `where`
- `project_id`

Examples

Searching by city name:

```
api.city_list(where=u'')
```

Searching by project id:

```
api.city_list(project_id=11)
```


Rubricator

Documentation: <http://api.2gis.ru/doc/firms/list/rubricator/>

Allowed parameters:

- where
- id
- parent_id
- show_children
- sort

Examples

All rubrics related to the city:

```
api.rubricator(where=u' ')
```

Get information about a one rubric:

```
api.rubricator(id=1234567890)
```

Get all child rubrics:

```
api.rubricator(parent_id=1234567890)
```

Get rubric with all the children

```
api.rubricator(id=1234567890, show_children=True)
```

Firms search

Documentation: <http://api.2gis.ru/doc/firms/searches/search/>

Allowed parameters:

- what
- where
- point : list of two coordinates [lon, lat]
- radius
- bound : [[lon1, lat1], [lon2, lat2]]
- page
- pagesize
- sort
- filters

Examples

Search for firms and rubrics:

```
api.search(what=u'', where=u'')
```

Search for firms and rubrics in radius of 1000 m from a point:

```
api.search(what=u'', point=[104.281352, 52.287771], radius=1000)
```

Search for firms and rubrics in a bounds:

```
api.search(what=u'', bound=[[82.801886, 54.991984], [82.9019, 52.9910]])
```

Search with worktime filter:

```
filters = {
    'worktime': 'mon,23:01',
}
api.search(what=u'', where=u'', filters=filters)
```

Search in rubric

Documentation: <http://api.2gis.ru/doc/firms/searches/searchinrubric/>

Allowed parameters:

- what
- where
- point : list of two coordinates [lon, lat]
- radius
- bound : [[lon1, lat1], [lon2, lat2]]
- page
- pagesize
- sort
- filters

Examples

Search for firms and rubric:

```
api.search(what=u'', where=u'')
```

Firm filials

Documentation: <http://api.2gis.ru/doc/firms/searches/firmsbyfilialid/>

Allowed parameters:

- firmid
- page

- `pagesize`

Examples

```
api.firms_by_filial_id(firmid=1234567890)
```

```
api.firms_by_filial_id(firmid=1234567890, page=2, pagesize=5)
```

Indices and tables

- *genindex*
- *modindex*
- *search*