

NAME

rrdpython – About the RRD Python bindings

SYNOPSIS

```
import rrdtool
rrdtool.create('/tmp/test.rrd', 'DS:foo:GAUGE:20:0:U')
```

DESCRIPTION

The **rrdtool** functions are directly callable via the Python programming language. This wrapper implementation has been written from the scratch (without SWIG)

The API expects strings and/or a list of strings as parameters to the functions. Please refer to the other **rrdtool** documentation for functions and valid arguments.

EXAMPLES**Example 1**

```
import sys
sys.path.append('/path/to/rrdtool/lib/python2.6/site-packages/')
import rrdtool, tempfile

DAY = 86400
YEAR = 365 * DAY
fd,path = tempfile.mkstemp('.png')

rrdtool.graph(path,
              '--imgformat', 'PNG',
              '--width', '540',
              '--height', '100',
              '--start', "-%i" % YEAR,
              '--end', "-1",
              '--vertical-label', 'Downloads/Day',
              '--title', 'Annual downloads',
              '--lower-limit', '0',
              'DEF:downloads=downloads.rrd:downloads:AVERAGE',
              'AREA:downloads#990033:Downloads')

info = rrdtool.info('downloads.rrd')
print info['last_update']
print info['ds[downloads].minimal_heartbeat']
```

Example 2

```
import sys
sys.path.append('/path/to/rrdtool/lib/python2.6/site-packages/')
import rrdtool

# in real life data_sources would be populated in loop or something similar
data_sources=[ 'DS:speed1:COUNTER:600:U:U',
               'DS:speed2:COUNTER:600:U:U',
               'DS:speed3:COUNTER:600:U:U' ]

rrdtool.create( 'speed.rrd',
               '--start', '920804400',
               data_sources,
               'RRA:AVERAGE:0.5:1:24',
               'RRA:AVERAGE:0.5:6:10' )
```

If you use the **site-python-install** make target you can drop to first `sys.path.append` line since the RRDtool module will be available everywhere.

If RRDtool runs into trouble, it will throw an exception which you might want to catch.

SEE ALSO

rrdcreate, rrdupdate, rrdgraph, rrdump, rrdfetch, rrdtune, rrdlast, rrdxport, rrdinfo

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