

**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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