Pygpx : Exemples

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# Exemple 1

<http://programtalk.com/python-examples/pygpx.GPX/>

## pygpx.GPX

By [T Tak](http://programtalk.com/author/ttak/)

Here are the examples of the python api [pygpx.GPX](http://programtalk.com/python-examples/pygpx.GPX/) taken from open source projects. By voting up you can indicate which examples are most useful and appropriate.

### 2 Examples

trip\_length.py

def main():

    """A simple example application"""

    if len(sys.argv) != 2:

        print "Usage: %s filename" % sys.argv[0]

        return

    gpx = GPX(open(sys.argv[1]))

    for trk in gpx.tracks:

        print trk.distance() / 1000.0, trk.duration(), \

              trk.full\_duration(), trk.start\_time(), trk.end\_time()

test\_length.py

def test\_length(self):

    gpx = GPX(open('tests/test\_data/2012\_06\_30 21\_17.gpx', 'r'))

    d = gpx.distance()

    d\_calculated = 6000

    self.assertAlmostEqual(d, d\_calculated, delta=100)

# Exemple 2

<http://nullege.com/codes/search/pygpx.GPX>

## [pygpx.GPX](http://nullege.com/codes/search/pygpx.GPX)

All Samples(6)  |  Call(3)  |  Derive(0)  |  Import(3)

This class allows the manipulation of a GPX document.

### [src/p/y/pygpx-HEAD/examples/trip\_length.py](http://nullege.com/codes/show/src%40p%40y%40pygpx-HEAD%40examples%40trip_length.py/1/pygpx.GPX/python)   [pygpx](http://nullege.com/projects/show/59165)([Download](git://github.com/fxdgear/pygpx.git))

from pygpx import GPX

import sys

def main():

    """A simple example application"""

    if len(sys.argv) != 2:

        print "Usage: %s filename" % sys.argv[0]

        return

    gpx = GPX(open(sys.argv[1]))

    for trk in gpx.tracks:

        print trk.distance() / 1000.0, trk.duration(), \

              trk.full\_duration(), trk.start\_time(), trk.end\_time()

if \_\_name\_\_ == "\_\_main\_\_":

    main()

### [src/p/y/pygpx-0.2/examples/trip\_length.py](http://nullege.com/codes/show/src%40p%40y%40pygpx-0.2%40examples%40trip_length.py/1/pygpx.GPX/python)   [pygpx](http://nullege.com/projects/show/5340)([Download](https://pypi.python.org/packages/source/p/pygpx/pygpx-0.2.tar.gz))

from pygpx import GPX

import sys

def main():

    """A simple example application"""

    if len(sys.argv) != 2:

        print "Usage: %s filename" % sys.argv[0]

        return

    gpx = GPX(open(sys.argv[1]))

    for trk in gpx.tracks:

        print trk.distance() / 1000.0, trk.duration(), \

              trk.full\_duration(), trk.start\_time(), trk.end\_time()

if \_\_name\_\_ == "\_\_main\_\_":

    main()

### [src/p/y/pygpx-HEAD/tests/test\_length.py](http://nullege.com/codes/show/src%40p%40y%40pygpx-HEAD%40tests%40test_length.py/6/pygpx.GPX/python)   [pygpx](http://nullege.com/projects/show/59165)([Download](git://github.com/fxdgear/pygpx.git))

|  |  |
| --- | --- |
| 3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20 | #!/usr/bin/env python  # -\*- coding: utf-8 -\*-    import unittest    from pygpx import GPX      class RequestTest(unittest.TestCase):        def test\_length(self):          gpx = GPX(open('tests/test\_data/2012\_06\_30 21\_17.gpx', 'r'))          d = gpx.distance()          d\_calculated = 6000          self.assertAlmostEqual(d, d\_calculated, delta=100)      if \_\_name\_\_ == '\_\_main\_\_':      unittest.main() |

# Exemple 3

## fxdgear/pygpx : Library designed for parsing and manipulating GPX files

<https://github.com/fxdgear/pygpx>

This library is designed for parsing and manipulating gpx files in Python.

This project originally started: <http://www.benno.id.au/code/pygpx/> by Ben Leslie. Modified by Nick Lang to work with GPX v1.1: <https://github.com/fxdgear/pygpx>

I am modifying it further. Changes are in CHANGE-LOG.

### Prerequisites

Required by pygpx:

* lxml

pygpx has now been converted to v0.3.

* v0.3 now supports the GPX schema v1.1. All files using pygpx should validate against v1.1
* pygpx now ships with the schema v1.1 and will run a validation test before running.
* Garmin supports exporting files to GPX valid against v1.1 so you shouldn't have any problems if you're using garmin software.

### Tests

Nosetests

### API example:

from pygpx import GPX

gpx = GPX("some\_data.gpx")

tracks = gpx.tracks

for track in tracks:

print track.name

for trkseg in track.trksegs:

for trkpnt in trkseg.trkpts:

print trkpnt.lat

print trkpnt.lon

print trkpnt.elevation

print trkpnt.hr

print trkpnt.time

print track.full\_duration()

print track.distance()