Introduction to the GC3Pie training

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S3IT: Services and Support for Science IT

University of Zurich

Welcome!

What is GC3Pie?

GC3Pie is . . .

1. An *opinionated* Python framework for defining and running computational workflows;

2. A *rapid development toolkit* for running user applications on clusters and IaaS cloud resources;

3. The worst name ever given to a middleware piece. . .

As *developers*, you're mostly interested in this part.

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Who am I?

Infrastructure and application specialist.

At UZH since 2009, first at GC3 then at S3IT.

Active in initial development of GC3Pie since 2009.

Now mostly focused on GC3pie-based workflows.

and what about you?

Prerequisites

This course assumes some experience with the Python programming language, and especially with its object-oriented constructs.

We also assume that you already have had some exposure to GC3Pie, by running scripts or attending other courses.

This is an *interactive* course!

We'd like the training to be
as interactive and informal as possible.

If you have a question, just ask – don't wait.

After the course is over,
you're very welcome to keep asking questions:

on the mailing-list:
gc3pie@googlegroups.com

or through the forum web interface:
http://news.gmane.org/gmane.comp.python.gc3pie

Where to find the course material

These slides and all the example files can be downloaded from the course web page at:
http://tinyurl.com/gc3pie-september-2016

A step-by-step guide to setting up your workstation for the course is at:
http://tinyurl.com/sciencloud-course-setup

Typographical conventions, I

The orange color is used for clickable links; this should make it easy to download sample files, etc.

Other **colors** and backgrounds are used for highlighting text in slides.

Typographical conventions, II

Commentary text appears
on the right.

```python
# This is how Python
# code looks like

def hello(name):
  print ("Hello, " + name)
```

Typographical conventions, III

```
$ echo hello
hello

>>> print 'hello'
hello
```

Commands to type in the terminal shell are signalled by the '$' prompt

Commands to type in the Python shell are signalled by the '>>>' prompt

GC3Pie documentation

The full GC3Pie documentation can be found at
http://gc3pie.readthedocs.io/

This tutorial assumes you're running GC3Pie
version 2.5 (i.e., currently the *master* branch on
GitHub).