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?

Systems administrator and programmer.

At UZH since 2010, first at GC3 then at S3IT.

Developer of GC3Pie since 2010.

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:
https://groups.google.com/forum/#!forum/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-workflows-tutorial

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

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

```
>>> print 'hello'
hello
```

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).