



# Introduction to the GC3Pie training

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# 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](mailto: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

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

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

Commentary text appears  
on the right.

## 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).