

## Getting to grips with PyWPS

In this course we will show you how to use PyWPS - the Python based FOSS framework for providing an OGC compliant Web Processing Service. Our aim is to make you comfortable with the basic usage patterns of the software so that you can apply these skills to creating service based architectures for solving GeoSpatial problems.

### Prerequisites

The course is technical in nature and we assume that you are already familiar with software development, and preferably the Python programming language. In addition you should be comfortable with basic system administration tasks from the command line (copying, moving, renaming and editing files). Ideally you should already have PyWPS installed on your system following these instructions:

<http://linfiniti.com/2009/09/a-quick-guide-to-getting-up-and-running-with-pywps/>

### What we will cover

- 'Hello World' from PyWPS & troubleshooting any initial setup problems
- Passing geometries to the service
- Returning geometries from the service
- Passing raster data to the service
- Returning raster data from the service
- Returning URLs
- The PyWPS QGIS plugin

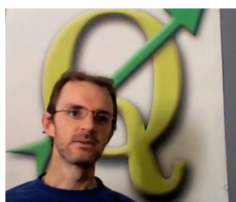
### About your instructors

Born in Germany and now resident in Switzerland, Horst Duester is the manager for the Swiss state of Solothurn's GIS group (SO!GIS). Horst has lead the development of a complete, integrated GIS system for the state using only FOSSGIS software. Horst is also an active participant of the QGIS project. He has been instrumental in facilitating QGIS's growth through their 'build it, don't buy it' policy which makes the additions and extensions to QGIS that they sponsor available to the greater public. Horst is also an accomplished PostGIS user - it is the cornerstone of their GIS implementation. Horst wrote the QGIS PyWPS plugin and has used PyWPS as a building block in the development of SO!GIS.



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Tim Sutton (Swellendam, Western Cape) has been an active contributor to QGIS since the early days of the project. Tim leverages FOSSGIS within his small consulting firm, Linfinti Consulting CC (linfiniti.com) to provide web based and desktop GIS solutions for customers. Tim has a wealth of experience in GIS and system administration to share.



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Horst will provide the instruction with Tim's assistance.