Python for Exploratory Space-Time Data Analysis

SERGIO REY
Department of Geography
San Diego State University
and
Regional Economics Application Laboratory
University of Illinois, Champaign-Urbana
serge@rohan.sdsu.edu

Workshop Description

Python is a cross-platform object oriented scripting language that provides excellent support for the social sciences. This workshop is designed as a primer for researchers interested in the use of Python for scientific computing. The core components of the language are presented in a hands-on tutorial fashion. Special emphasis is placed on extension modules for Python that support numerical computing and visualization. Concepts are illustrated using examples from the social sciences and geographical analysis. Finally, the use of Python for the implementation of a large scale exploratory space-time data analysis application is presented.

Workshop Schedule

Time	Topics
10-12:30	Installation, modes of use, operators, data types, condition-
	als, files, functions, object orientation
12:30-1:00	Break
1:00-2:30	Numerical Python, numerray, Scipy. GUI Toolkits, Tkinter
2:30-2:45	Break
2:45-4:00	STARS: Space-Time Analysis of Regional Systems.