PRIME 2014 BRISBANE AUSTRALIA

PROJECT:
KEPLER WORKFLOWS FOR MRI IMAGE GENERATION
WEEK 1 JULY 2ND REPORT
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FIRST PROJECT GOAL
REGENERATE STANFORD PYTHON MRI SCRIPT IN KEPLER

• The first phase of my project is to get the python code found below converted into a Kepler workflow
  • [http://docs.enthought.com/mayavi/mayavi/auto/example_mri.html](http://docs.enthought.com/mayavi/mayavi/auto/example_mri.html)

• Steps to accomplishing this
  • Get the python code running on my computer.
  • Use Kepler python actors to create a workflow in Kepler that accomplishes the same script
GETTING PYTHON SCRIPT RUNNING

• My first task is to get the open source script found below working on my machine
  • http://docs.enthought.com/mayavi/mayavi/auto/example_mri.html

• To accomplish this I ran into a problem
  • The script uses specialized python packages which are not in the default installation of python

• How I managed to overcome this obstacle
  • After trying and failing to get the program running in Linux I located a program called canopy that with slight modification can run the python script as is.
RECREATING STANFORD PYTHON MRI SCRIPT

• First step: Learn how Kepler Python Actor works
  • Kepler uses a java program called Jython that can convert python script to java actors.

• Current problem
  • Jython and Kepler do not have the correct python packages installed natively to run the scripts I am trying to import.

• Further research
  • I need to find out how to add additional python packages to Jython in order to run the script and get the Kepler workflow working properly.
WE HAVE ARRIVED IN AUSTRALIA
CANYONEERING OUTSIDE SYDNEY

Look to the left of the waterfall for my repel down the cliff. Two friends I knew previously picked me up at Sydney Airport and took me on two days of adventure outside of Sydney.