

PRIME 2014 BRISBANE AUSTRALIA

PROJECT:

KEPLER WORKFLOWS FOR MRI IMAGE GENERATION

WEEK 1 JULY 2ND REPORT

MATTHEW SCHWEGLER

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
- 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.

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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