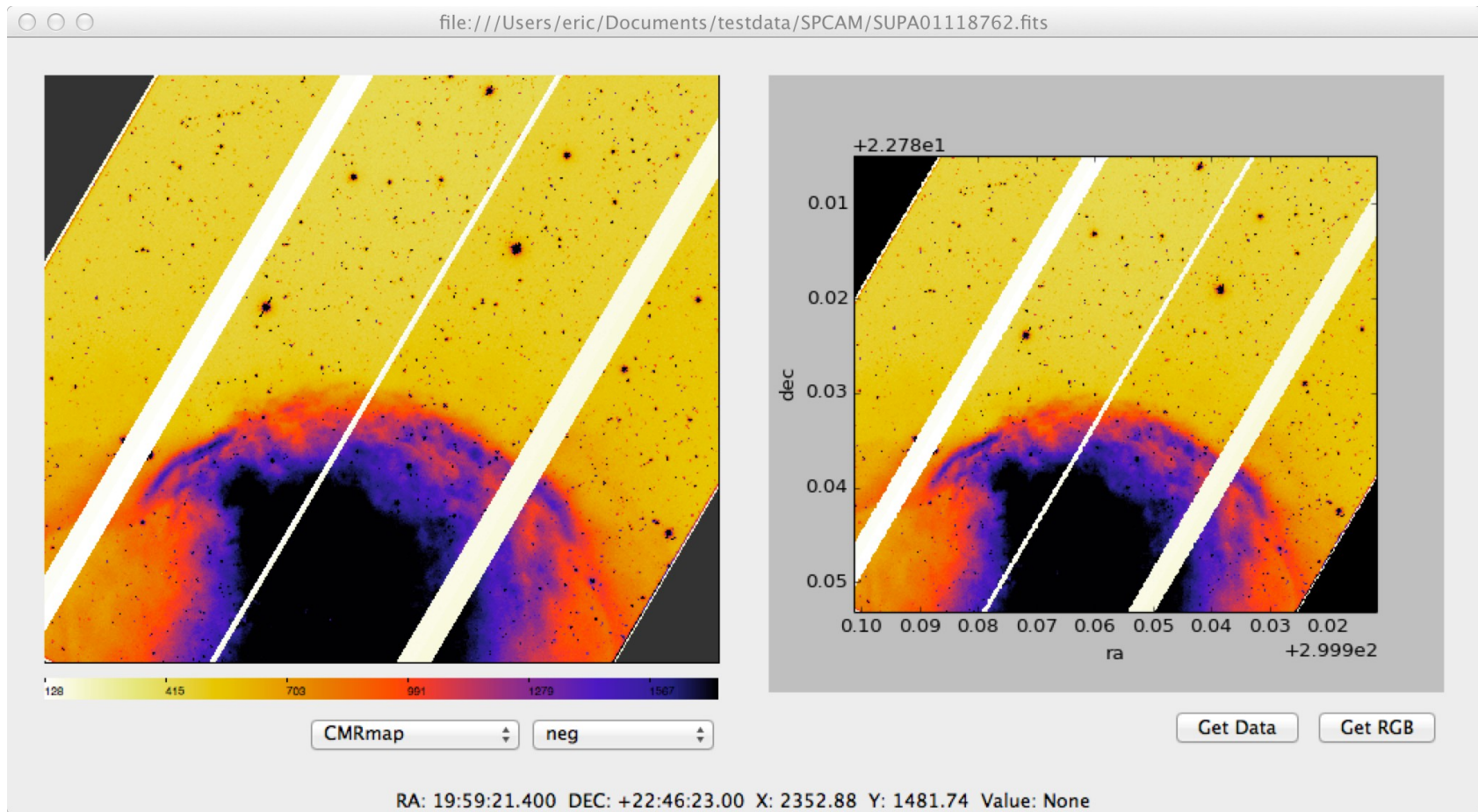


Ginga: a toolkit for building astronomical image viewers



What exactly is it?

- At its heart, Ginga is a python GUI widget you can embed in a python program to create custom viewers
- ds9-like responsiveness and functionality for viewing any kind of image that can be put in a numpy array
- Built on numpy, scipy, astropy
- Supports Qt (4 & 5), PySide, Gtk, Tk and Matplotlib for rendering output
- Simple to add powerful FITS viewer like functionality to your python GUI
- Astropy affiliated package, on github, BSD license, etc

(Sample application demo movie)

Easy Installation

Step 1: download and install Anaconda

<http://continuum.io/downloads>

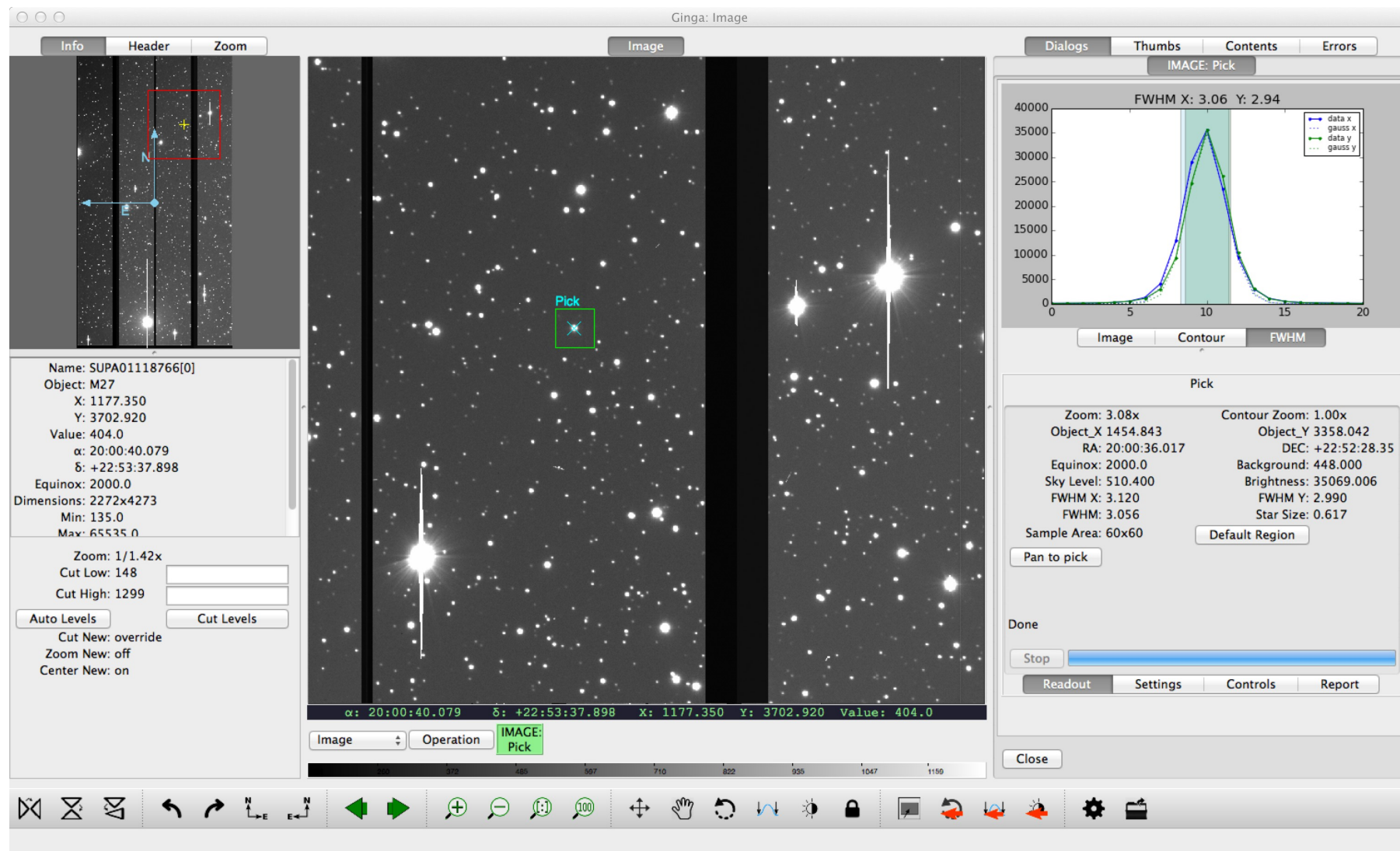
Step 2: from a terminal:

```
$ pip install ginga
```

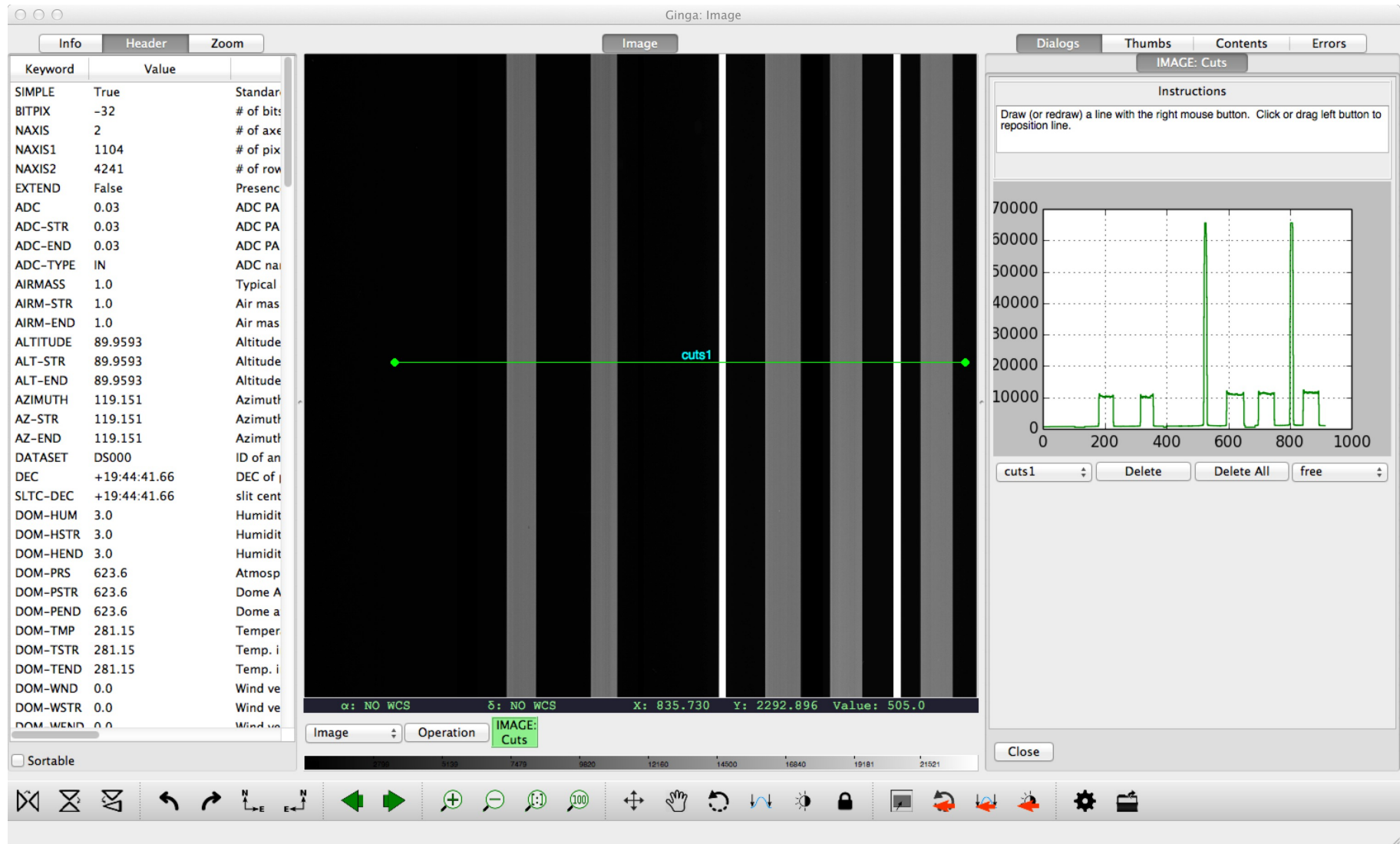
Prefer to roll your own way?

<https://github.com/ejeschke/ginga.git>

Special Offer: Download Now and we'll throw in a “Reference Viewer” Absolutely Free !!



Everything is a plugin



Writing plugins is super easy!

```
• from ginga import GingaPlugin
•
• class MyPlugin(GingaPlugin.LocalPlugin):
•
•     def __init__(self, shell, viewer):
•         super(MyPlugin, self).__init__(shell,
•             viewer)
•
•     def build_gui(self, container):
•         pass
•
•     def start(self):
•         pass
•
•     def stop(self):
•         pass
•
•     def pause(self):
•         pass
•
•     def resume(self):
•         pass
•
•     def redo(self):
•         pass
•
•     def __str__(self):
•         return 'myplugin'
```

Thanks for your attention

- <https://github.com/ejeschke/ginga.git>
- Inquiries → eric@naoj.org
- Unconference Session Today!
 - Demos
 - Answer questions (“How do I do YYY in Ginga ?”)
 - Try building a sample plugin for the reference viewer
 - Feedback on UI
 - Collaborate, feature request, etc.
 - Etc. etc.
- Pronunciation: “ging-gah” (best), “jing-ga” (ok), “jin-ja” (nooooooo!!)