

Near-term (mid-January, or so) visualization goals:

We plan to have a visualization tool that incorporates, in one application, all the parts that we have prototyped. It will run on both the UIUC and SLAC servers.

- Image display (all image display is done by Firefly):
 - Display latest image, with controls as described in the [documentation](#).
 - Display an image by specifying its URI.
We need to have a way to locate images.
 - Multiple image display (in separate viewers).
How does the BE know which image (not the viewer) to process?
- Region specification and display:
How does the region data structure accommodate other shape names?
 - By coordinates on the command line
 - Using the Firefly tool
 - By name (*e.g.*, amplifier, CCD, raft). Also pre- post-, and over-scan
 - Enable/disable overlay of amplifier/CCD boundaries.
 - Enable/disable display of mouse coordinates and HW region.
Does the geometry file accommodate overscan regions and CCD names?
- Command entry: **Should be finished by 1/2.**
 - All commands can be entered on the command line.
 - Commands that take region parameters can also be entered from the Firefly tool bar.
 - Commands can have default parameters, which are specified in a configuration file.
- Commands implemented (details in the documentation).
Except as noted, all command output appears in a box.
 - Create, clear, and delete box.
 - Show and hide (minimize) box
 - Show and hide amplifier boundaries
 - Create and delete viewer.
 - Pixel statistics in a region:
 - average_pixel
 - second_moment
 - hot_pixel (highlights hot pixels in the image viewer)
 - Histograms:
 - Pixel distribution in a region (**graph_pixel**)
 - Second moment in each of a CCD's amplifiers (perhaps)
 - Row projection of a pre- or post-scan region (perhaps)