DV Cheat Sheet

1. Setup:
   - Erase previous observer settings: before logging in to XUI, check **Reset DV on login**
   - A commonly used setup (see Figure) is selected in the **Display Options tab** as follows:
     - **ActiveDpy 0**, **DisplayType Image**, **Buffer A**
     - **ActiveDpy 1**: **DisplayType XLineCut**, **Buffer A**
     - **ActiveDpy 2**: **DisplayType Image**, **Buffer C**
     - **ActiveDpy 3**, choose one of:
       - **DisplayType QuickLook**, **Buffer F**: flux or S/N spectrum latest extracted A-B pair (S/N is per pixel, A-nod only).
       - **Buffer G** is for all A-B pairs combined.
       - **DisplayType Pointer**, **Buffer C**: S/N based on photon count (per resolution element, A+B nod)
       - **Buffer D** is for all A-B pairs combined.

2. Mouse actions:
   - Draw a line: shift-[Middle Mouse Button]
   - Draw a box: [Middle Mouse Button]
   - Move box: [Left Mouse Button]
   - Change color scale: [Right Mouse Button]

3. Zooming and scaling on **Display Options tab**:
   - zoom in: draw box → click **Box Zoom**
   - zoom out: click **Full Image**

4. Make cross cut of, e.g., nod A, using **Display Options tab**:
   - **ActiveDpy 0**: **DisplayType Image**, **Buffer A**
   - **ActiveDpy 0**: draw line with shift-[Middle Mouse Button]
   - **ActiveDpy 1**: **DisplayType XLineCut**, **Buffer A**
   - **ActiveDpy 1**: click **Set Endpoint From Line**
   - determine image quality: click **Gaussian Fit** (ActiveDpy 1)

5. Move telescope using guider (Guidedog, Kyle, MORIS) images using **Offset tab**:
   - draw line on image with shift-[Middle Mouse Button]
   - click **Offset Telescope**

6. Estimate broad-band magnitude using guider (Guidedog, Kyle, MORIS) images, on A nod, using **Display Options tab**:
   - **ActiveDpy 0**: **DisplayType Image**, **Buffer A**
• **ActiveDpy 0**: draw small box next to star with [Middle Mouse Button]
• **ActiveDpy 1**: DisplayType **Stats**, **Buffer A**
• **ActiveDpy 1**: click **Set Sky**
• **ActiveDpy 0**: move box on top of star with [Left Mouse Button]
• **ActiveDpy 1**: read broad-band magnitude in display

**DV is highly configurable. This shows a common set-up. In this example, Display 1 is active, as indicated by the yellow bar, and the darker ActiveDpy button.**