

Custom ROI zoom – Help

credits

The tool was made by Bernhard Schaffer, SuperSTEM Laboratory Daresbury/UK.

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GMS: tested on both GMS 2.1 and GMS 1.9.4 but should work on all GMS versions as it uses basic core scripting.

purpose

This little tool opens an additional display window onto the *same* data displayed in another image. This allows easy magnification of subsections in particular in images with large aspect ratio (EELS-CCD images). It also allows different display modes (colour, contrast, etc) to be used at the same time for the identical data. The tool offers both a *static* version and an *interactive* version.

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Setup

install

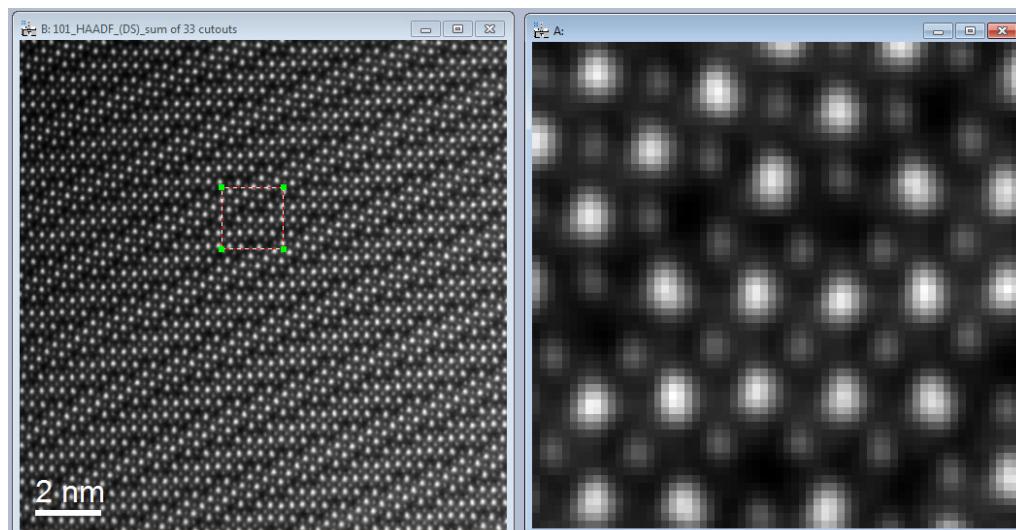
Copy the *b_CustomROIzoom.gtk* file into the plugins folder and restart DigitalMicrograph. There should now be a new menu entry:
B → TOOLS → Custom ROI zoom



Using the tool

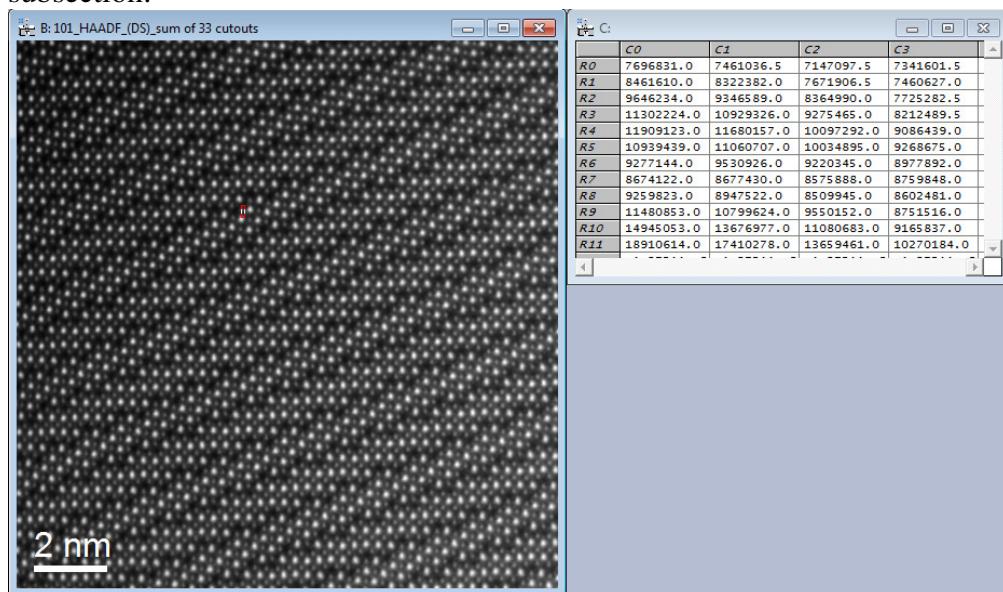
Static version

Draw a rectangular ROI in an image and have it selected. Select the menu entry and keep the ALT (or OPTION) key pressed while doing so. (You may now delete/change the ROI selection.)



Note that image A is *not* a copy of the section of image B, but displaying the *identical* data¹. Hence, changing either image A or image B will be reflected in both windows. This becomes apparent, if image B would be a live-image such as an acquisition "search" display.

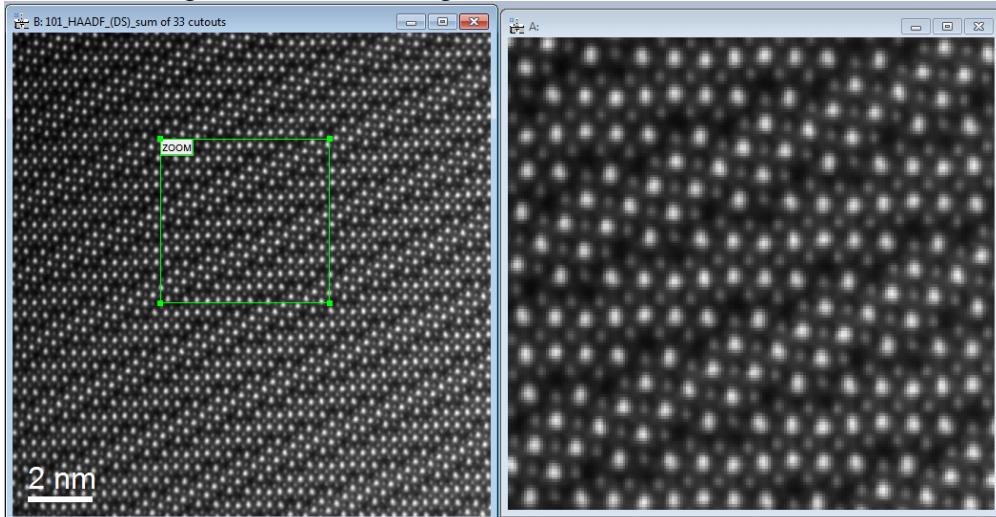
You may also switch the display type of one of the images, i.e. to see the numeric values of an image subsection:



¹ In scripting terms: It is just another ImageDisplay of the same Image.

Interactive version

Draw a rectangular ROI in an image and have it selected. Select the menu entry.



The ROI is recolored into green and the new image display shows the selected area. Dragging the green ROI will update the display window. Changing the size of the ROI will also change the size of the zoom-window².

Deleting the ROI will close the zoom-window.

Other issues

Data types

The script does not work with RGB images, and it can only be used for rasterimage displays, i.e. no zoom of lineplots is possible.

² Note that this will destroy & recreate the window, therefore some flickering is visible. Scripts which attach listeners to an image display will be killed in the process (because the display is killed and recreated)