



Regions

Regions are two dimensional filters that can be used to include or exclude data from a given file. They may be applied to *any* column in a file (time, spatial, etc.), using the **DM** command-line syntax. Regions can be read and written by the **ds9** imaging tool and read by CIAO tools (e.g. **dmextract**, to extract photons just from the sources).

Regions are made up of a number of shapes that are listed in the **dmregions** ahelp page. The shapes can either be inclusive or exclusive. The different shapes can then be combined using either a boolean AND or boolean OR operation which leads to a degree of flexibility to design arbitrary regions.

For more information on creating and using regions, see the following threads:

- [Using CIAO Region Files](#)
- [Creating Source and Background Files](#)
- [Using the Output of Detect Tools](#)

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URL:
<http://cxc.harvard.edu/ciao3.4/dictionary/regions.html>
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