

TOPCAT: Tool for Operations on Catalogues And Tables

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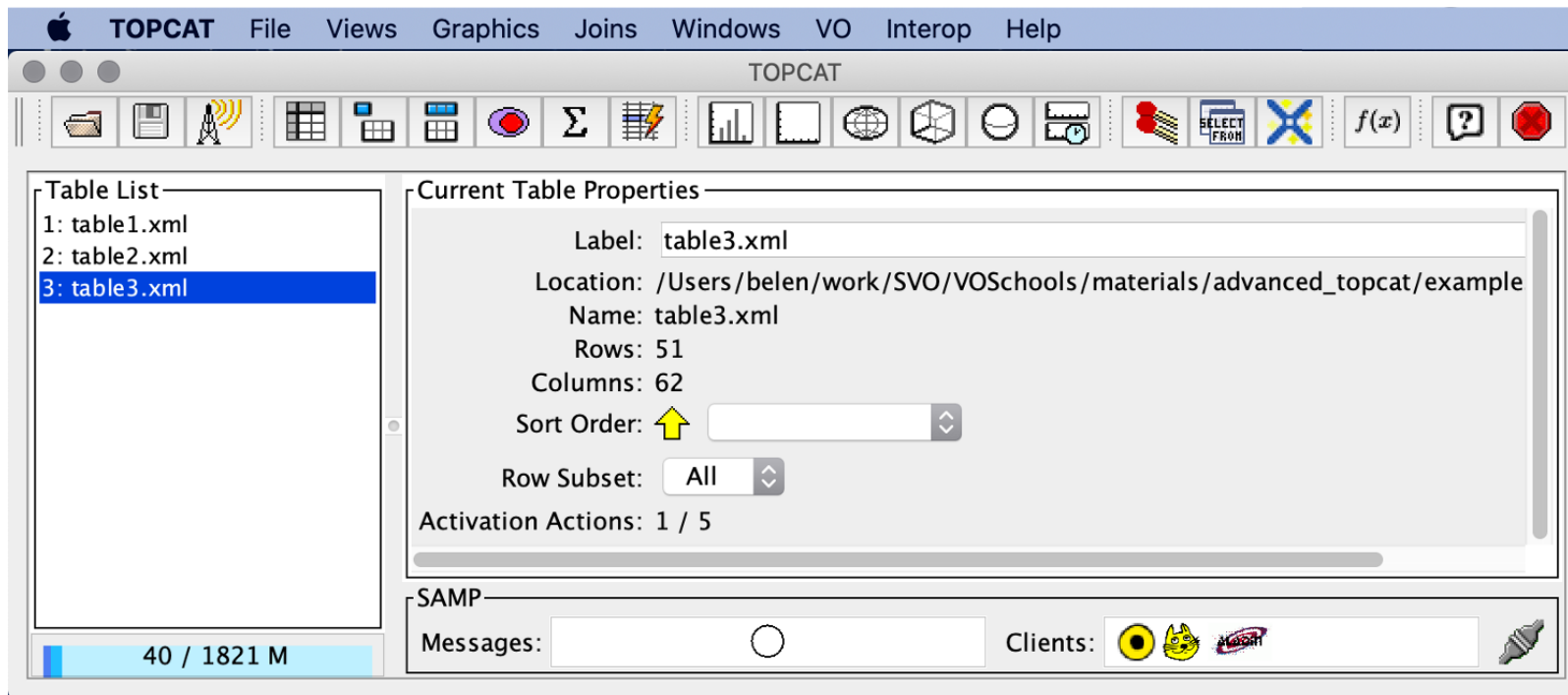


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TOPCAT

A powerful tool to manage large and complex tables



TOPCAT

Graphical representations
Window control
View options
Joins and matches
File operations
VO queries
Interoperability
Help menu
Exit

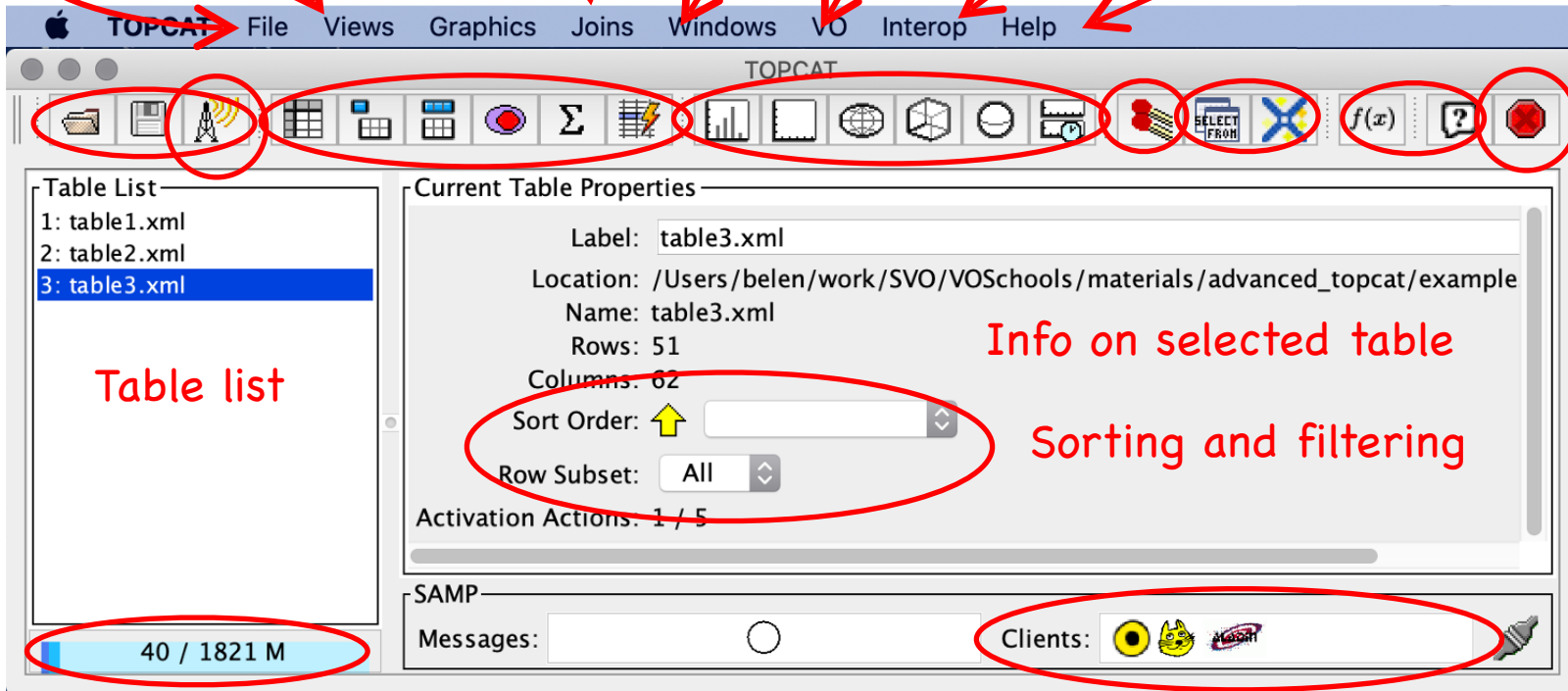


Table list

Info on selected table

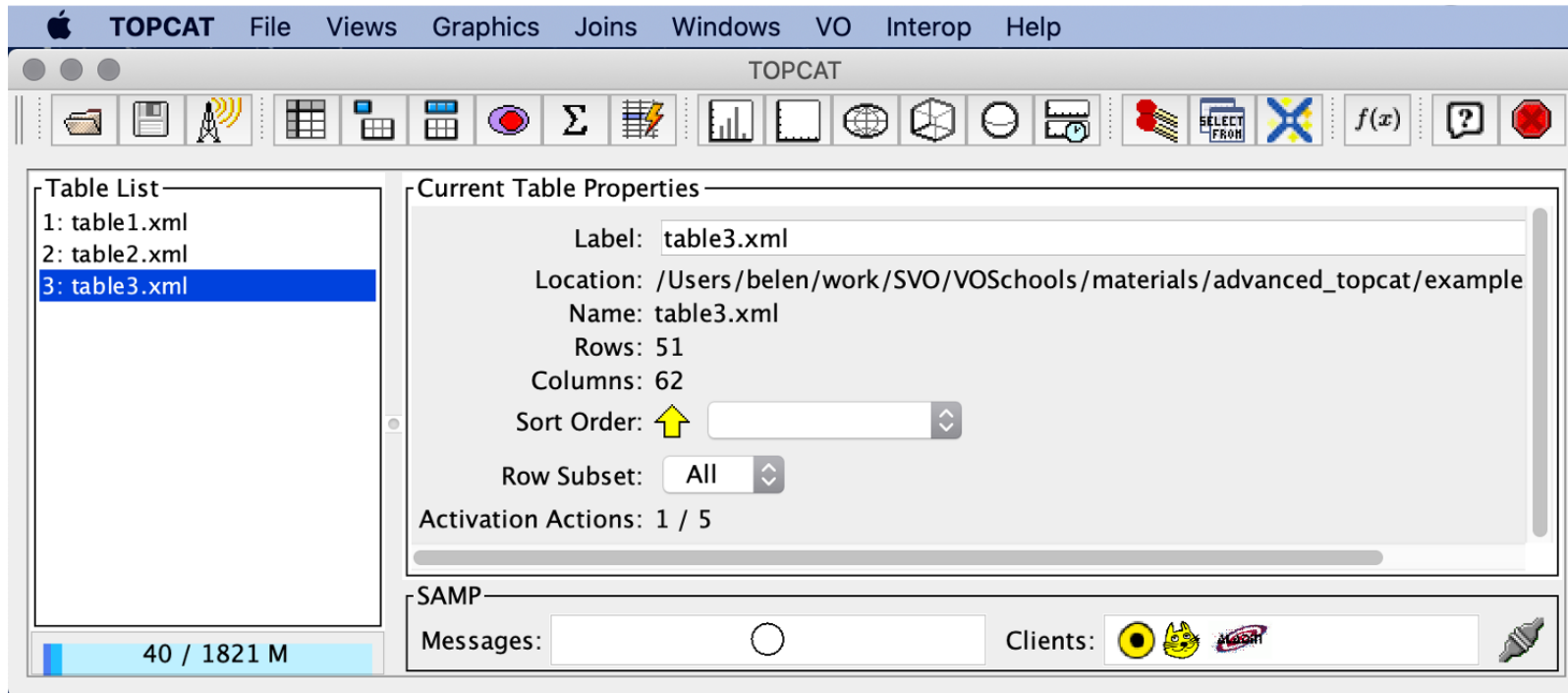
Sorting and filtering

Memory usage

Available VO clients

TOPCAT

Let's start

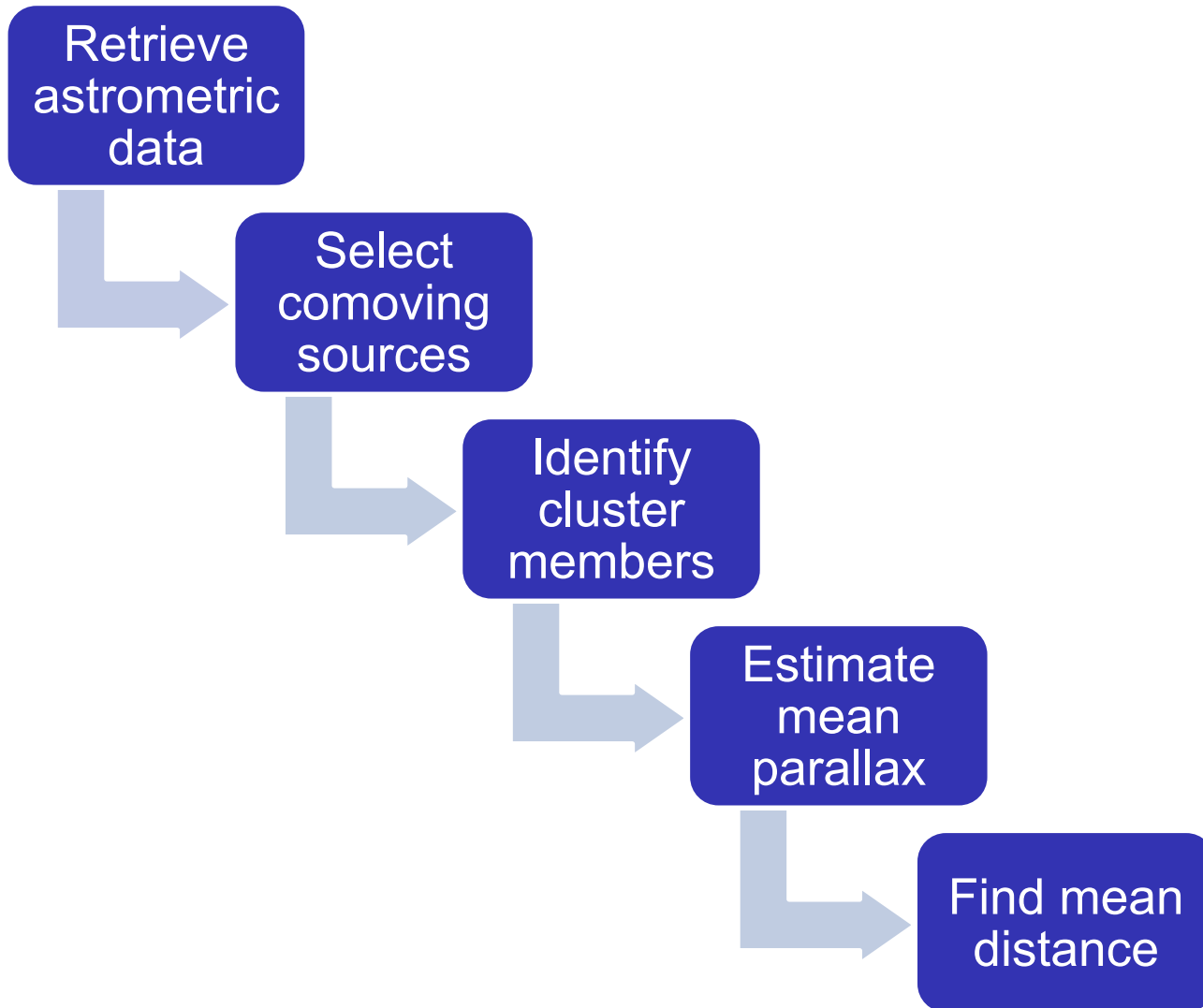


Distance to the Pleiades open cluster




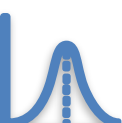


Same age, chemistry, and kinematics.

Distance to the Pleiades open cluster



Step by step overview

Block	Task	Steps	Output	Done?
1 	Data discovery	3 to 7	3089 entries	✓
2 	Co-moving sources	8 to 13	'comoving' subset	✓
3 	Cluster members	14 to 22	Histogram with likely cluster members	✓
4 	Parallax and distance	23 to 38	Estimate of distance and its error	✓

Challenges

**(1) Repeat the search for brown dwarfs in
2MASS and SDSS using TOPCAT:**

Can you replicate the results obtained using Aladin?

(2) Customize the 3D visualization:

*Can you tune the cube to have real dimensions
(e.g. three dimensions in pc)?*

Want to learn more?

- TOPCAT v4.8.1: <http://www.star.bris.ac.uk/~mbt/topcat/sun253/sun253.html>
- TOPCAT/STILTS advanced tutorial: <http://andromeda.star.bris.ac.uk/topcat/tutorial-asterics1/>
- TOPCAT virtual lesson (in Spanish): <https://youtu.be/IJ3qeliOOGY>