

CEviewer

Quick Users Guide

Introduction

This program is a viewer for *C. elegans* models, based on a reduced version of Endrov (www.endrov.net). The data can also be loaded in the full version.

Included models:

- Ce-2008
- Angler

Starting the Program

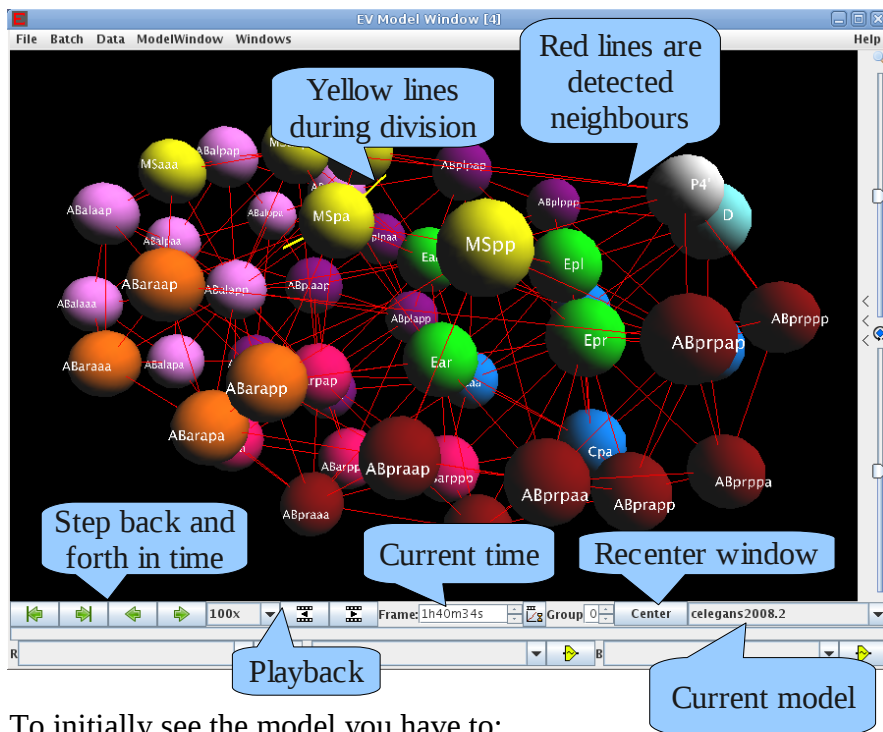
Start the program. How you do this depends on your operating system. Double-clicking on startViewer.jar should work on most systems. Otherwise try “java -jar startViewer.jar” in the console.

The models will automatically be loaded.

New windows can be created using the Window menu. The Model Window and the Lineage Window are the only really interesting ones.

Model Window

The model window is presented below:



To initially see the model you have to:

1. Selected the model
2. Select the right frame (use the left-most button to go to the first)

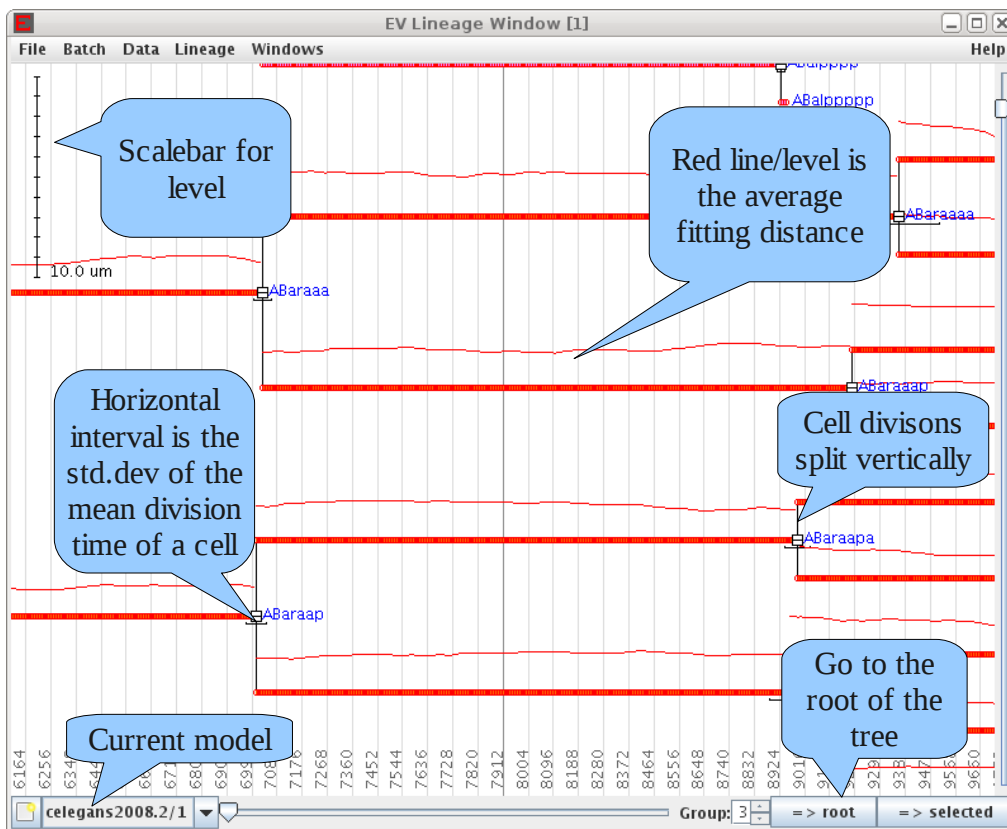
3. Center the view

To navigate a two button mouse with a scroll wheel is needed, or a dual-analog gamepad. The left button is for selecting nuclei, the right for panning and the scroll for zooming.

Many display options are available in the menu ModelWindow. You can for example color the cells, make them transparent, make them smaller, enable Delaunay lines, enable division lines etc.

Lineage Window

The second interesting window is the lineage window:



As the name implies, this is where you can see the lineage. You can pan around using the right mouse button, and select with the left. The Lineage menu contains most interesting options. Some options are also available in a right-click menu.

Coloring nuclei

The coloring used in the paper is included in the file paper.nuccol. It can be loaded through the Data menu, browsing to the lineage object, selecting "Load color scheme".

To recolor nuclei:

1. select the nuclei you wish to

2. if you wish to color also the daughter cells, use the LineageWindow menu “Select children”
3. Use the menu “Set nuclei color” in the model window or lineage window

Display Options

These are best explored by the user. You can for example set a display color on the selected cells. Selections are shared between all the windows. You can synchronize the current frame by setting the “group” to be the same on the windows that should share it.