**Sortomato V2.0 (Thomas Pengo edited version)**

Sortomato was created by Peter Beemiller. Thomas Pengo and Dmitri Kotov have modified the Sortomato Xtension to add hotkey, additional features, bug fixes, and compatibility with Imaris 9.0.

**Added Hotkeys and Features:**

When in the Sortomato 2D graph for a selected surface there are a number of functions that are accessible by pressing keys on the keyboard (upper vs lowercase letters matters!). For all of these functions, you must first click off of the graph onto the background portion of the Sortomato 2D graph window before pushing any keys on the keyboard for these functions.

* + h - Hides region labels and percentage
  + H - Shows region labels and percentage
  + e - edit selected region name. Whenever the name is edited it will always have the shape of the region as the first four letters, like a rectangle region will be “rect-your name.” This is due to how the regions are utilized by Sortomato.
  + s - Brings up a window to save the drawn regions, the X and Y axis and the limits for each axis. These can be loaded into another Sortomato 2D graph including between different Imaris files.
  + o - Opens a window to open a saved file that will apply regions, X and Y axis, and the limits for each axis to the current graph.

The Copy and paste functions only work between Sortomato 2D graphs open in one instance of matlab. Basically, you can only use the copy and paste function within one Imaris file. Even if you two Imaris files open at the same time, you cannot copy and paste between them but have to use the save (s) and open (o) functions instead.

* + c - Copies the X and Y axis and the limits for each axis.
  + C - Copies the regions, the X and Y axis and the limits for each axis.
  + p - Pastes the X and Y axis and the limits for each axis.
  + P - Pastes the regions, the X and Y axis and the limits for each axis

**Other updates:**

* Sortomato now works with more than 9 channels
* It is now possible to have hundreds of objects in a surface and draw regions then create new surfaces from the regions.
* The Sortomato colors can be changed from white background and black letters to black numbers and white letters by changing the ‘w’ in line 66 of the Sortomato matlab file to ‘k’. The changed Sortomato file then needs to be saved on the desktop and dragged into the matlab folder in the Imaris directory in place of the existing Sortomato file. This was written in by Peter Beemiller and we used it to change to a white background.
* In the Sortomato 2D graph the regions selection window has been moved over and enlarged to allow longer region names to be fully visible.
* Percentages are calculated and displayed for each region.
* When saving (press ‘s’) the Imaris files name is automatically in the naming window for the saved file.
* Sortomato now works with Imaris 9. Specifically, the surface creation from regions drawn in Sortomato stopped working in Imaris 9 and we have changed the code for surfaces so that Sortomato can now create surfaces from drawn regions in Imaris 9 and Imaris 8. We have not tried Sortomato on spots or tracks in Imaris 9, so this issue may exist for using Sortomato on those objects in Imaris 9.