How to Create STM Movies

Alex Pronschinske

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1. Open SPIP version 5.0.7 or greater (you may need 6.0.6 or greater, see below)

2. Open an arbitrary image and setup your desired view settings. You should first save the original view settings (save icon in View Settings pane). Once you have the view settings set to your liking, save them, and set them as the default settings. (Note: there is a known bug that versions of SPIP < 6.0.6 will not use your settings as the default if they have the color bar turned off)
   a. \textit{Window} $\rightarrow$ \textit{Show color bar}: when making movies for presentations you may prefer to set this to “No” so that image file is just the scan, without the boarders
   b. \textit{Title} $\rightarrow$ \textit{File Path} this should typically be set to “No” so that the whole file name will fit inside the image
   c. \textit{Ruler} $\rightarrow$ \textit{Visible}: when making movies without the boarder it may be helpful to add a scale bar

3. (Optional) Change the default color map to your desired theme

4. Set favorite window size and enable “Apply favorite size when tiling” option (window menu)

5. Close all data windows

6. Open the “Batch Processing” dialog window, and setup the batch commands
   a. Add “Plane Correct”, and click the settings button in the dialog window to customize them (the default settings are not ideal)
   b. (Optional) Add “Correct X, Y, Angle”, this will allow for all of the frames to be scaled to the correct physical size
c. (Optional) Add “Color Default Scale”, if you have set the default color map to be a scaled version this will apply the scaling

d. Add “Window Save all in JPEG”

7. Check “Run when loading files” and “Close windows before new loading”

8. Make sure “Process topographic data only” is not checked

9. With the “Batch Processing” window still open, open all of the files you wish to create frames from (*.Z_mtrx or *.I_mtrx)

10. Wait

   “Patience is bitter, but its fruit is sweet.”

   –Aristotle

11. You will find the images in the same folder as the data files

12. Open Microsoft Powerpoint

13. In a new file open the “Photo Album” dialog (under the “Insert” ribbon)

14. Import all of the movie frames (image files)

15. Modify the options as you like and click “Create”

16. (Optional) Select all of the slides and in the “Animations” ribbon enter a time for the delay value, this will make the movie run automatically