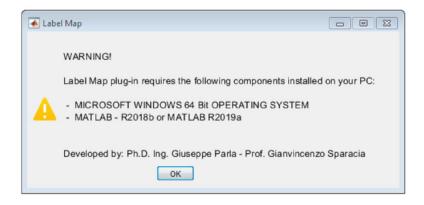


LabelMap is a plugin software developed to enhance image presentation of resting-state fMRI images computed with DPABI developed in May 2019 by Ph.D Ing. G. Parla and Prof. Dr. G. Sparacia at NeuroLab <u>https://sparacia.wordpress.com/neurolab/</u>

## Download and installation the software

- 1. After download LabelMap software, extract (unzip) the labelmap.zip into a working directory on your computer.
- 2. After that, open MatLab and change path to the LabelMap work directory previously created.
- 3. Otherwise write on MatLab command window the following command: cd\your working LabelMap directory\
- 4. After installation, open LabelMap GUI by typing on the MatLab command window: >> labelmap
- 5. LabelMap will show the message:



After click the OK button the software start the GUI as shown:

🔚 Label Map			
Label Map	🔵 dpabi 📣	MATLAB	G. SPARACIA, MD NEUROIMAGING sparacia.wordpress.com sparacia@yahoo.com
Load Image Data	Colorbar Choice Type ColorBar	FontSize: Colorbar- Slices-Title	SAVE IMAGE Help (On Line)
OPEN FILE INDEX		Font Size Slices	EXIT PROGRAM
		Developed by: Ph.D. Ing. G. P	arla - Prof. G. Sparacia

## Video Demonstation of LabelMap can be seen at:

https://youtu.be/dF3KEwRhZaU

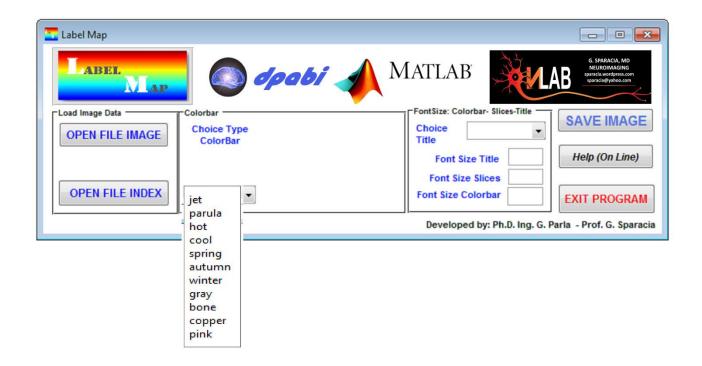
## **Step by step operation:**

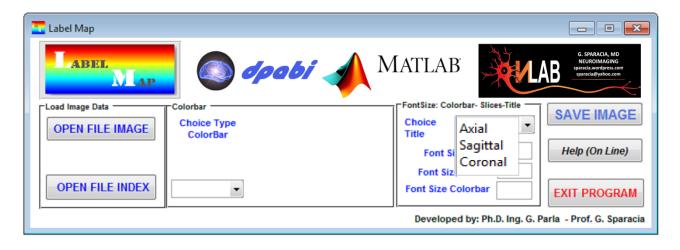
1. When the GUI show up, you have to select the image file and index file previously computed with DPABI which LabelMap will present with a graphical layout

Label Map			
LABEL	🗧 🔘 dpabi 📣 🛚		🖪 Label Map 🗖 🗖 🖾
Мар		JANKAR AND	Image file loaded correctly!
Load Image Data	Colorbar Choice Type	FontSize: Colorbar- Slices-Title SAVE IMAGE	Name File image: FC_dpabi.png
OPEN FILE IMAGE	ColorBar	Title	ок
		Font Size Slices	
OPEN FILE INDEX	•	Font Size Colorbar EXIT PROGRAM	
I		Developed by: Ph.D. Ing. G. Parla - Prof. G. Sparacia	

Label Map	🔵 dpabi 📣	MATLAB	G. SKARACK, MD RDJACH AGIK CETBELINGACA MI SPARADAJAMEAN SANADAJAMEAN	▲ Label Map □ ■ 🖂 Index File Loaded correctly!
OPEN FILE IMAGE	Colorbar Choice Type ColorBar	Choice	SAVE IMAGE Help (On Line) EXIT PROGRAM arla - Prof. G. Sparacia	Name Index File: FC_dpabi.txt

Then, you have to select from the popup-menu the colorbar type (jet, hsv, hot, etc.) and the image label (Axial, Sagittal, Coronal)

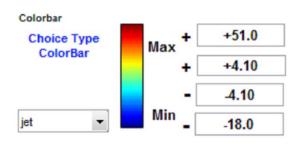




To create the layout map you have to fill in the numeric field on the GUI based on the type of color bar chosen

In the example figure below for jet colorbar:

absolute maximum positive value (with + sign) relative maximum positive value (with + sign) relative minimum negative value (with - sign) absolute minimum negative value (with - sign)



Now you can chose the Font Size for:

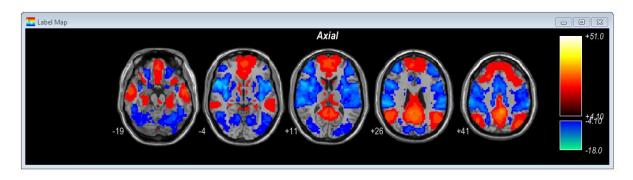
-Title Image -Color Bar -Slices index

FontSize: Colorbar- Slices-Title				
Choice Title	Axial			
Font Size Title		15		
Font Size Slices		13		
Font Size Colorbar		11		

After compilation of the form you can save the layout image by press the SAVE IMAGE button



LabelMap then show the preview layout image:

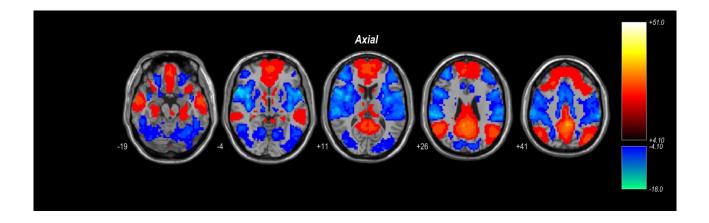


At this point, if the layout image is ok, you can click OK to save the image otherwise click NO to return to GUI and make a different layout image by changing font size etc..

When click YES, you have the chance to resize the image layout before save it.

CLICK OK TO SAVE 🗖 🗉 🔀	
RESIZABLE THE FIGURE BEFORE SAVE IT!	
Axial Axial (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
-13 Contractions	

Finally LabelMap will ask to select the directory where to save the final image layout as \*.TIFF.



At this point LabelMap presents a dialog box to choose to CLOSE THE PROGRAM by select "YES" or to start a new LabelMap layout process by select "NO"

🔄 Label Map 📃 🖂 🖼 🖾	
Load Image Data   Colorbar     Colorbar   Colorbar     Colorbar   Max     Colorbar   Max     +   +4.10     Max   +     -   4.10     Min   -18.0	CLOSE THE PROGRAM?
Developed by: Ph.D. Ing. G. Parla - Prof. G. Sparacia	

If press "NO" the software presents a new dialog box stating that is ready to run for a new layout presentation

Label Map	🔵 dpa	bi 📣			Label Map 🗖 🖾
OPEN FILE IMAGE	Colorbar Choice Type	+ +51.0	FontSize: Colorbar- Slices-Title	SAVE IMAGE	SOFTWARE READY TO RUN
	ColorBar	+ +4.10	Title Font Size Title 18	Help (On Line)	UK
OPEN FILE INDEX	jet 💌 M	4.10 lin 18.0	Font Size Slices 13   Font Size Colorbar 11	EXIT PROGRAM	
			Developed by: Ph.D. Ing. G. Pa	arla - Prof. G. Sparacia	

Please note to close LabelMap software ALWAYS with EXIT PROGRAM to clear the memory variables and opened system file

https://sparacia.wordpress.com/neurolab/