

Image processing with Fanosoft

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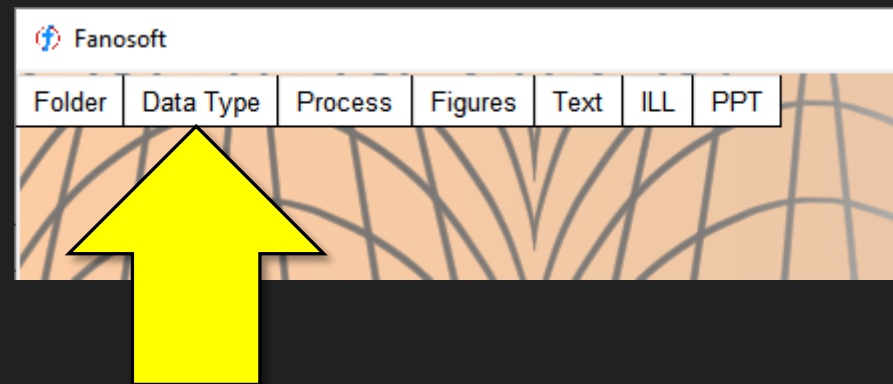
Add an inset to an image

Importing Images

Data Type Module

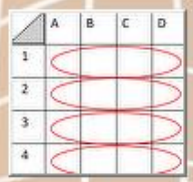
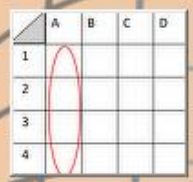
Importing Images

- Click on “Data Type” in the upper left corner of the main window

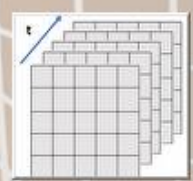
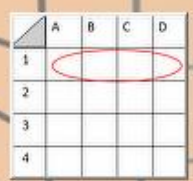


DATA TYPE

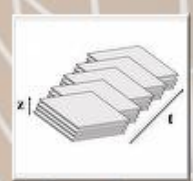
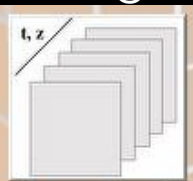
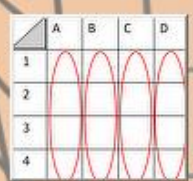
Import image stitch
(row/columns)



Import individual images



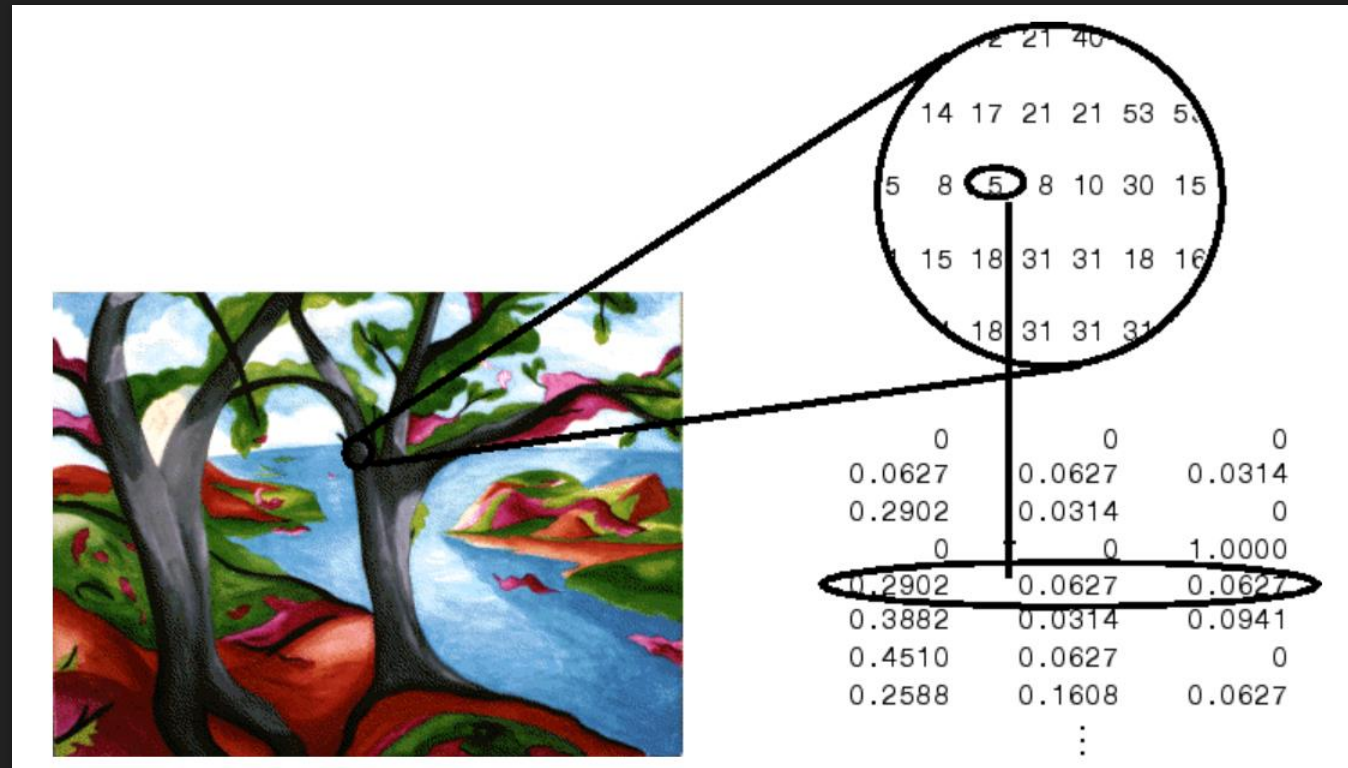
Import image stack



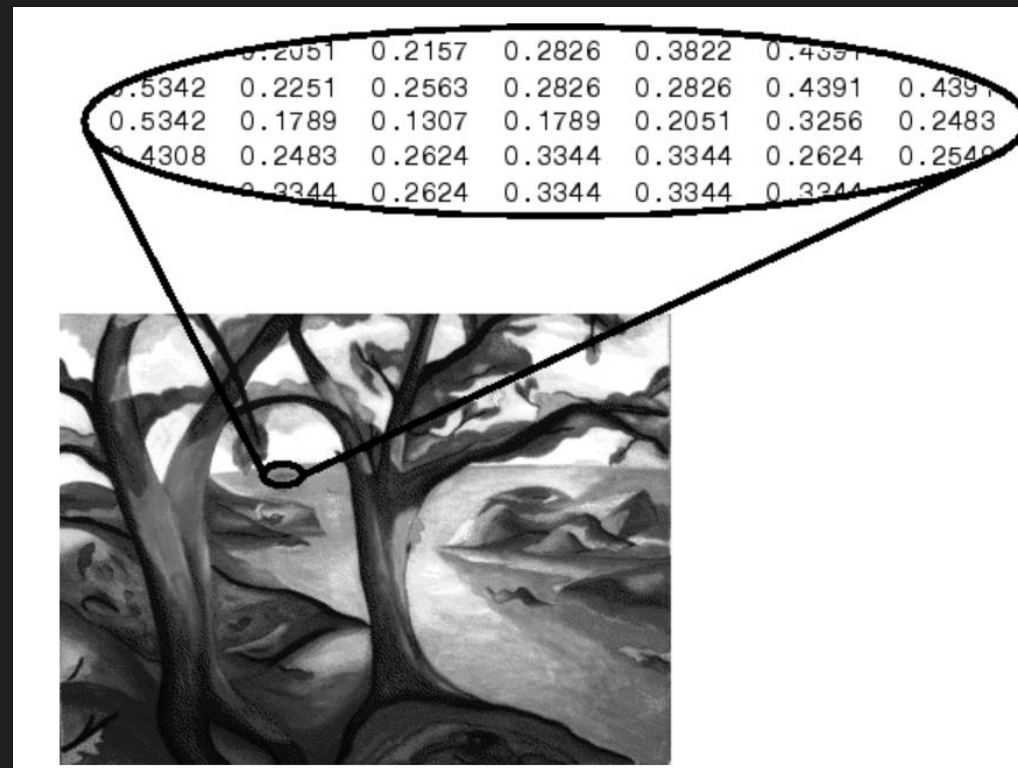
Supported Image Formats

- Supported Image formats(.bmp .gif .jpg .png .tif .mat)
- Supported Image types:
 - Grayscale (Intensity images): NxM array of class double, uint8 or uint16
 - Indexed images
 - RGB (Truecolor images): NxMx3 array of class double, uint8 or uint16

Indexed images




Greyscale (Intensity) Images



RGB Images

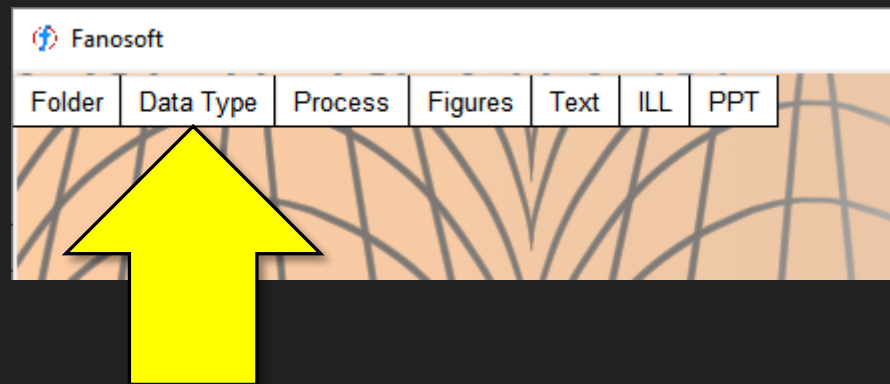
	0.2235	0.1294	Blue	0.4196	0.2235	0.1294	0.4196	0.2235	0.1294
0.5804	0.2902	0.0627		0.2902	0.2902	0.4824	0.5804	0.2902	0.0627
0.5804	0.0627	0.0627		0.0627	0.2235	0.2588	0.5804	0.0627	0.0627
0.5176	0.1922	0.0627	Green	0.1922	0.2588	0.2588	0.5176	0.1922	0.0627
0.5176	0.1294	0.1608		0.1294	0.1294	0.2588	0.2588	0.1294	0.1608
0.5176	0.1608	0.0627		0.1608	0.1922	0.2588	0.2588	0.1608	0.0627
0.5490	0.2235	0.5490	Red	0.7412	0.7765	0.7765	0.5490	0.2235	0.5490
0.5490	0.3882	0.5176		0.5804	0.5804	0.7765	0.7765	0.5804	0.3882
0.5490	0.2588	0.2902		0.2588	0.2235	0.4824	0.2235	0.2588	0.2902
0.5490	0.2235	0.1608		0.2588	0.2588	0.1608	0.2588	0.2235	0.1608
0.5490	0.1608	0.2588		0.2588	0.2588	0.2588	0.2588	0.1608	0.2588



Importing a single image

Example importing a single image

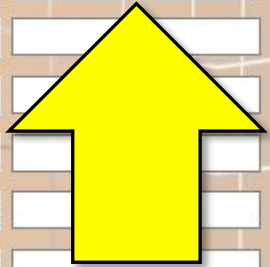
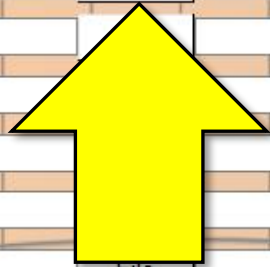
- Click on “Data Type” in the upper left corner of the main window



Folder Data Type Process Figures Text ILL PPT

img0

Folder 1	File	a/stitch_data/c0_r0.PNG	Name of image 1	img0
Folder 2			Name of image 2	
Folder 3			Name of image 3	
Folder 4			Name of image 4	
Folder 5			Name of image 5	
Folder 6	File		Name of image 6	
Folder 7			Name of	
Folder 8			Name of image 8	
Process				



Click on file and select the image

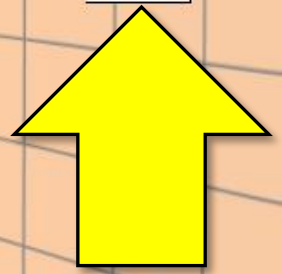
Give a variable name to the image

img0

Folder 1	<input type="text"/>	File	a/stitch_data/c0_r0.PNG	Name of image 1	img0
Folder 2	<input type="text"/>	File	<input type="text"/>	Name of image 2	<input type="text"/>
Folder 3	<input type="text"/>	File	<input type="text"/>	Name of image 3	<input type="text"/>
Folder 4	<input type="text"/>	File	<input type="text"/>	Name of image 4	<input type="text"/>
Folder 5	<input type="text"/>	File	<input type="text"/>	Name of image 5	<input type="text"/>
Folder 6	<input type="text"/>	File	<input type="text"/>	Name of image 6	<input type="text"/>
Folder 7	<input type="text"/>	File	<input type="text"/>	Name of image 7	<input type="text"/>
Folder 8	<input type="text"/>	File	<input type="text"/>	Name of image 8	<input type="text"/>

Up to 8 images can be imported at once

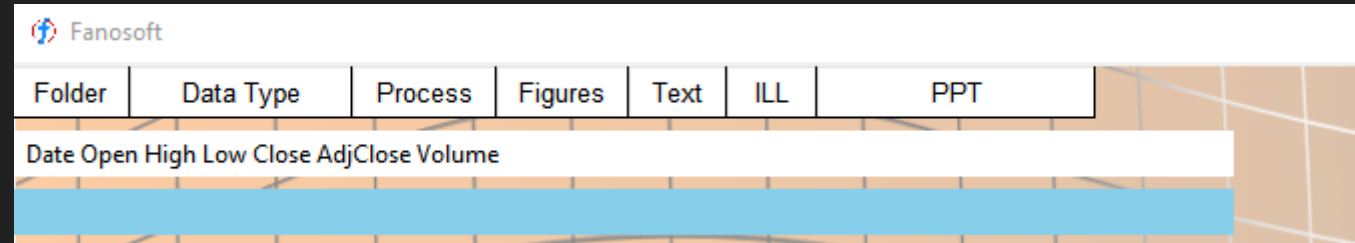
Process



Click on Process

Example: Importing a single image

- If the process is successful, a checkmark is displayed
- The imported variables are visible in the white banner and can be referenced:



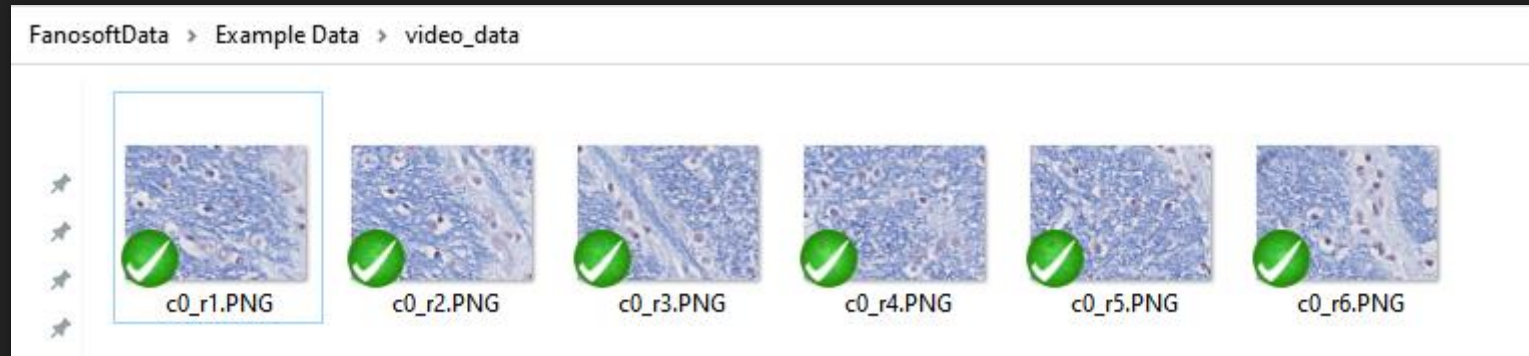
Folder	Data Type	Process	Figures	Text	ILL	PPT
Date Open High Low Close AdjClose Volume						

Importing an image stack

Image stacks

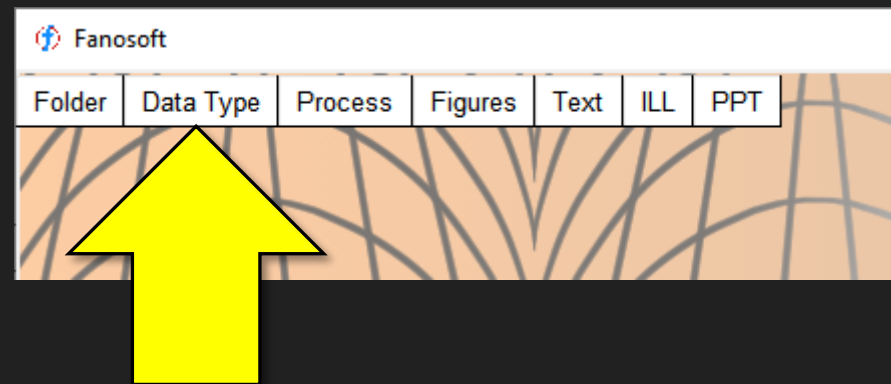
- Load an image stack under a single variable name
- An image stack consists of multiple files with the same filename indexed by a number
 - e.g. “image0.png” “image2.png” “image3.png” ... “image24.png”
 - e.g. “c0_r1.png” “c0_r1.png” ... “c0_r6.png”
- The user specifies the filename with a “%d” token, a start and a stop
 - e.g. “image%d.png” with %d from 0 to 24
 - e.g. “c0_r%d.png” with %d from 1 to 6
- The image stack is imported in a subfolder in the user directory
 - Import format can be selected: tif or png

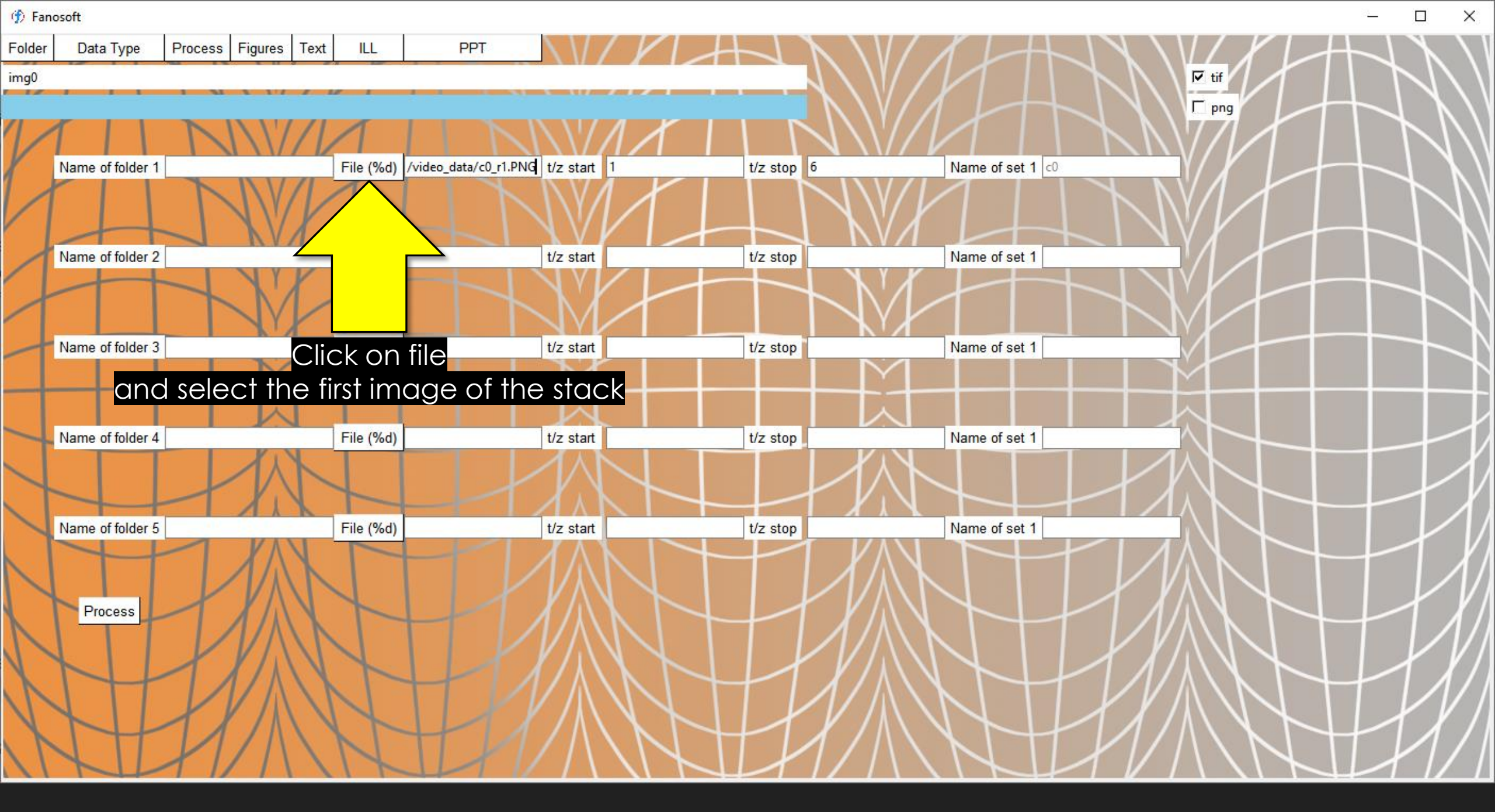
Example: Importing an image stack



Example importing an image stack

- Click on “Data Type” in the upper left corner of the main window



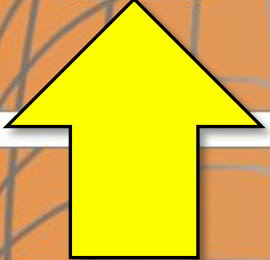


Folder Data Type Process Figures Text ILL PPT

img0

tif
 png

Name of folder 1 File (%d) /video_data/c0_r1.PNG t/z start 1 t/z stop 6 Name of set 1 c0



Name of folder 2 t/z start t/z stop Name of set 1

Name of folder 3 t/z start t/z stop Name of set 1

Click on file and select the first image of the stack

Name of folder 4 File (%d) t/z start t/z stop Name of set 1

Name of folder 5 File (%d) t/z start t/z stop Name of set 1

Process

img0

tif
 png

Name of folder 1 | File (%d) | /video_data/c0_r1.PNG | t/z start | 1 | t/z stop | 6 | Name of set 1 | c0

Name of folder 2 | File (%d) | | t/z start | | t/z stop | | Name of set 1 |

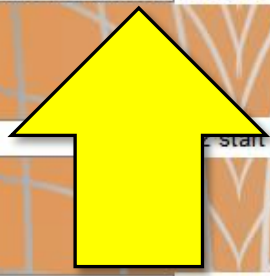
Name of folder 3 | File (%d) | | t/z stop | | Name of set 1 |

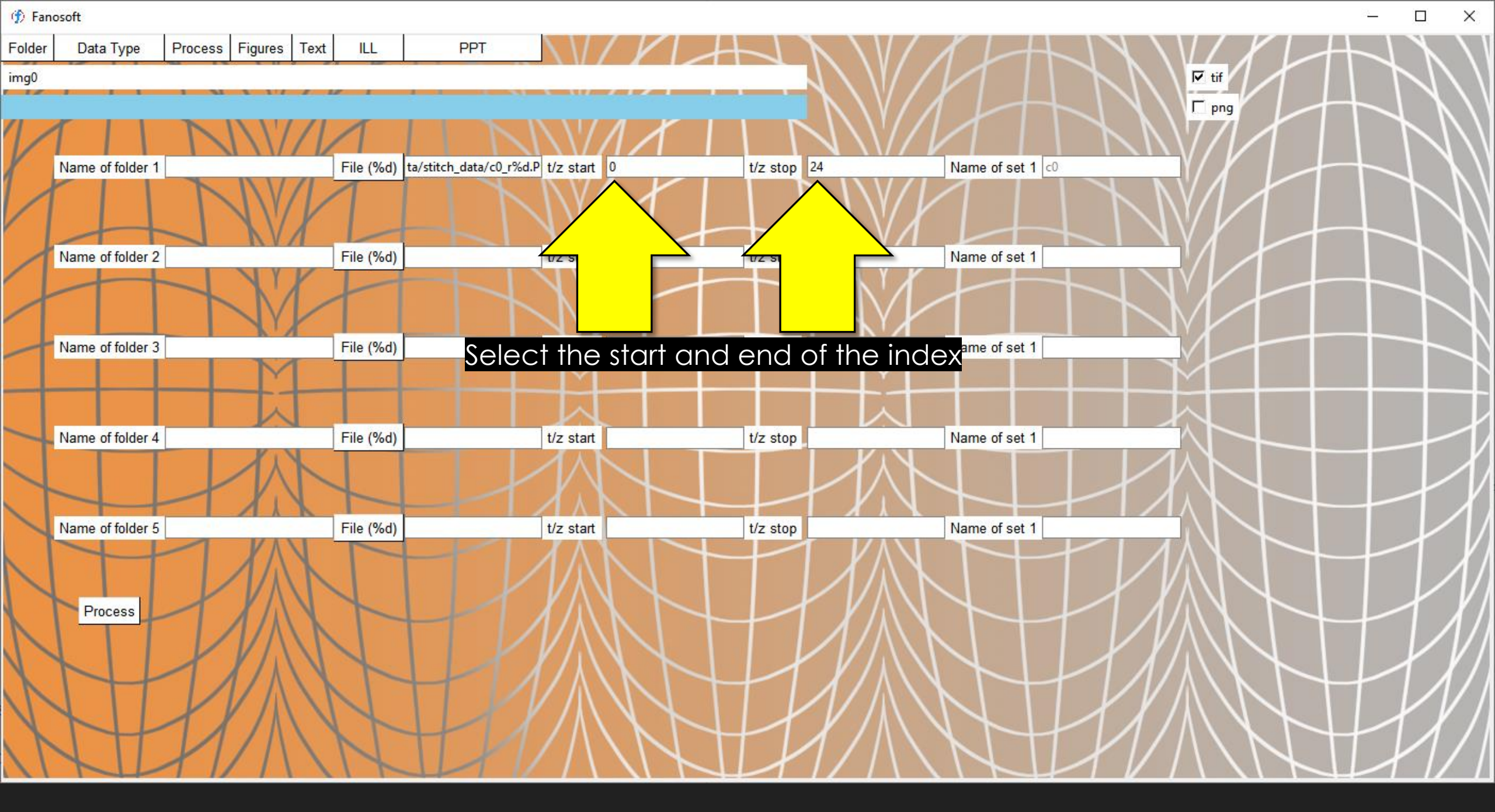
Replace the index by %d
e.g. c0_r1.PNG → c0_r%d.PNG

Name of folder 4 | File (%d) | | t/z start | | t/z stop | | Name of set 1 |

Name of folder 5 | File (%d) | | t/z start | | t/z stop | | Name of set 1 |

Process





Folder | Data Type | Process | Figures | Text | ILL | PPT

img0

tif
 png

Name of folder 1 | File (%d) | ta/stitch_data/c0_r%d.P | t/z start | 0 | t/z stop | 24 | Name of set 1 | c0

Name of folder 2 | File (%d) | | t/z start | | t/z stop | | Name of set 1 |

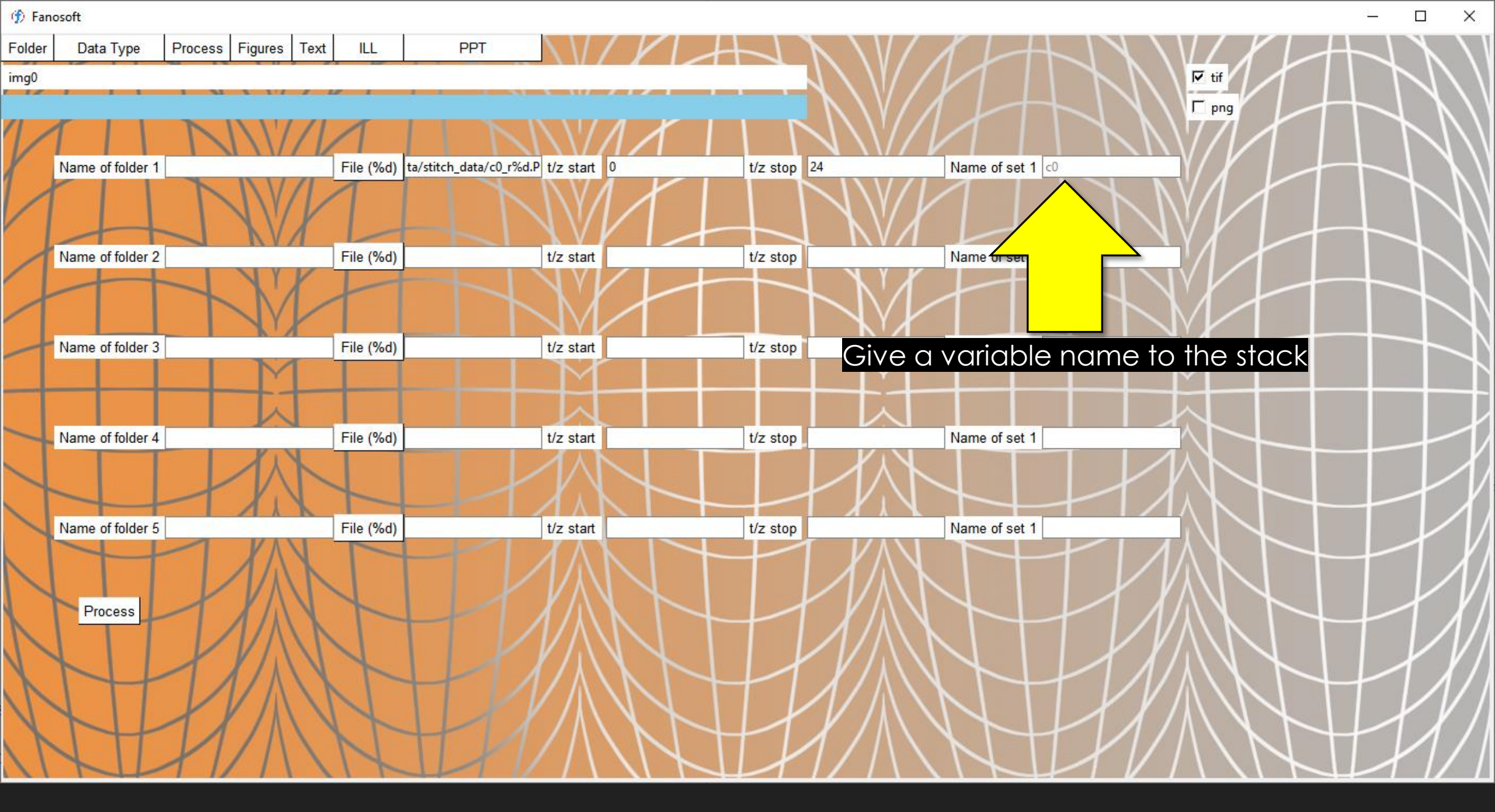
Name of folder 3 | File (%d) | | t/z start | | t/z stop | | Name of set 1 |

Name of folder 4 | File (%d) | | t/z start | | t/z stop | | Name of set 1 |

Name of folder 5 | File (%d) | | t/z start | | t/z stop | | Name of set 1 |

Select the start and end of the index

Process



Fanosoft

Folder Data Type Process Figures Text ILL PPT

img0

tif
 png

Name of folder 1 File (%d) ta/stitch_data/c0_r%d.P t/z start 0 t/z stop 24 Name of set 1 c0

Name of folder 2 File (%d) t/z start t/z stop Name of set 1

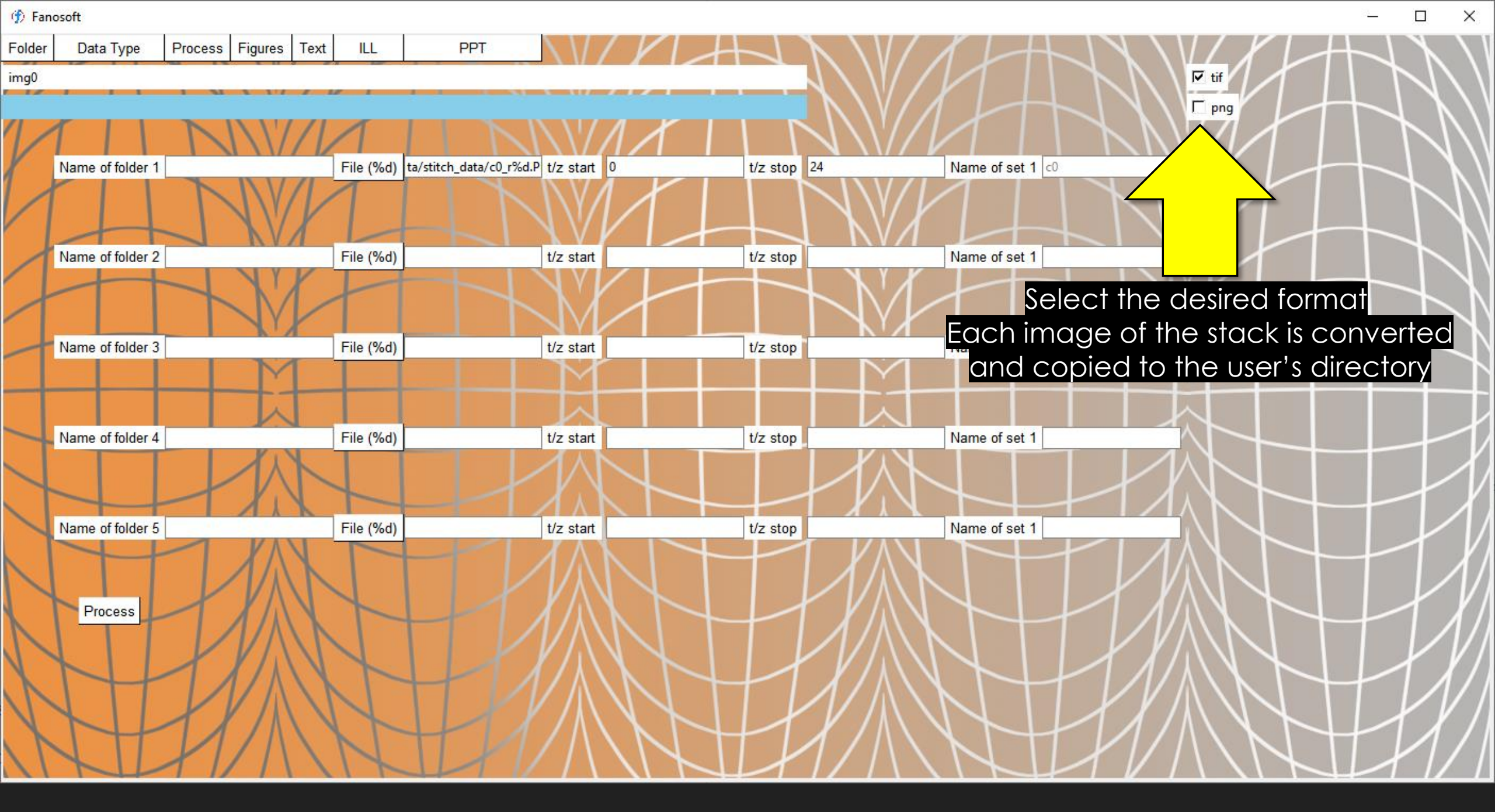
Name of folder 3 File (%d) t/z start t/z stop Name of set 1

Name of folder 4 File (%d) t/z start t/z stop Name of set 1

Name of folder 5 File (%d) t/z start t/z stop Name of set 1

Process

Give a variable name to the stack



tif
 png



Select the desired format
Each image of the stack is converted
and copied to the user's directory

Process

Folder Data Type Process Figures Text ILL PPT

img0

tif
 png

Name of folder 1 File (%) ta/stitch_data/c0_r%d.P t/z start 0 t/z stop 24 Name of set 1 c0

Name of folder 2 File (%) t/z start t/z stop Name of set 1

Name of folder 3 File (%) t/z start t/z stop Name of set 1

Name of folder 4 File (%) t/z start t/z stop Name of set 1

Name of folder 5 File (%) t/z start t/z stop Name of set 1

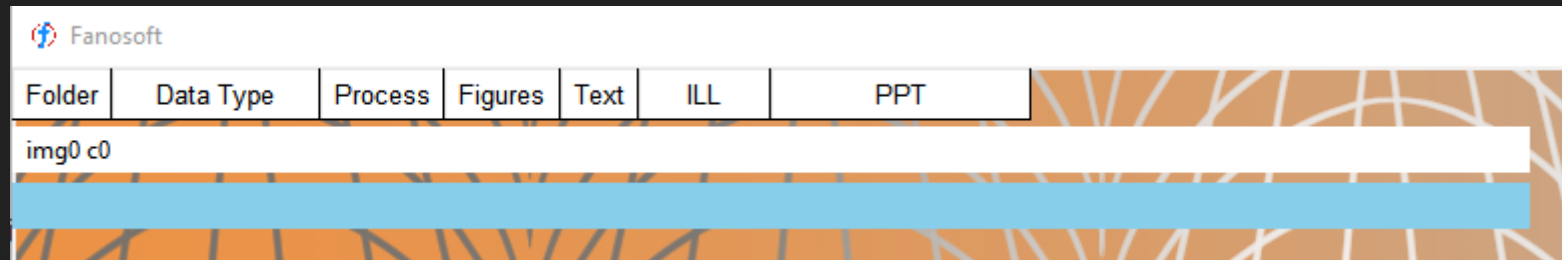
Process



Click on Process

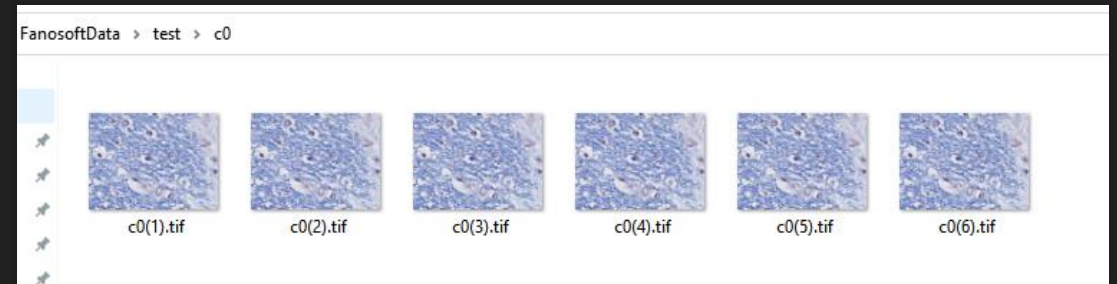
Example: Importing an image stack

- If the process is successful, a checkmark is displayed
- The imported variables are visible in the white banner and can be referenced:



Example: Importing an image stack

- Fanosoft copied the images in the user's directory (e.g. FanosoftData\Test) in a sub-folder with the name of the variable (e.g. c0)



Importing an image stitch

Image stitch

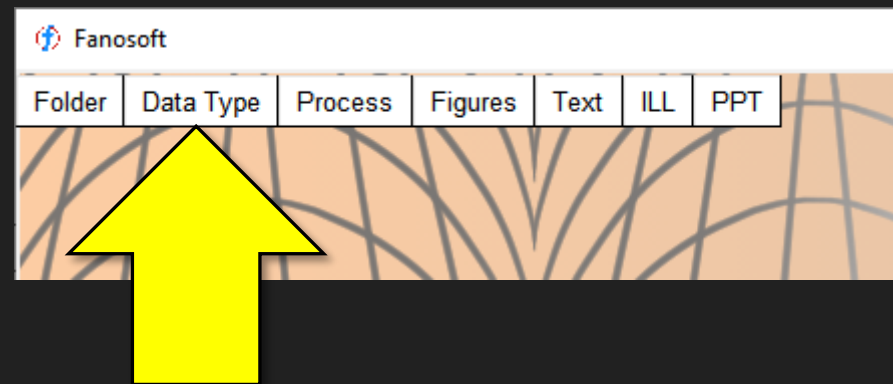
- Load an image stitch under a single variable name
- An image stitch consists of multiple files indexed by rows and columns e.g.
 - First column: "c0_r0.png" "c0_r1.png" ... "c0_r24.png"
 - 2nd column: "c1_r0.png" "c1_r1.png" ... "c1_r24.png"
 - ...
 - Last column: "c4_r0.png" "c4_r1.png" ... "c4_r24.png"
- Specifies the filename with a "%r" and a "%c" token for the row and column respectively
 - e.g. "c%c_r%r.png" with %c from 0 to 4 and %r from 0 to 24
- Fanosoft import images 2D arrays row-by-row.

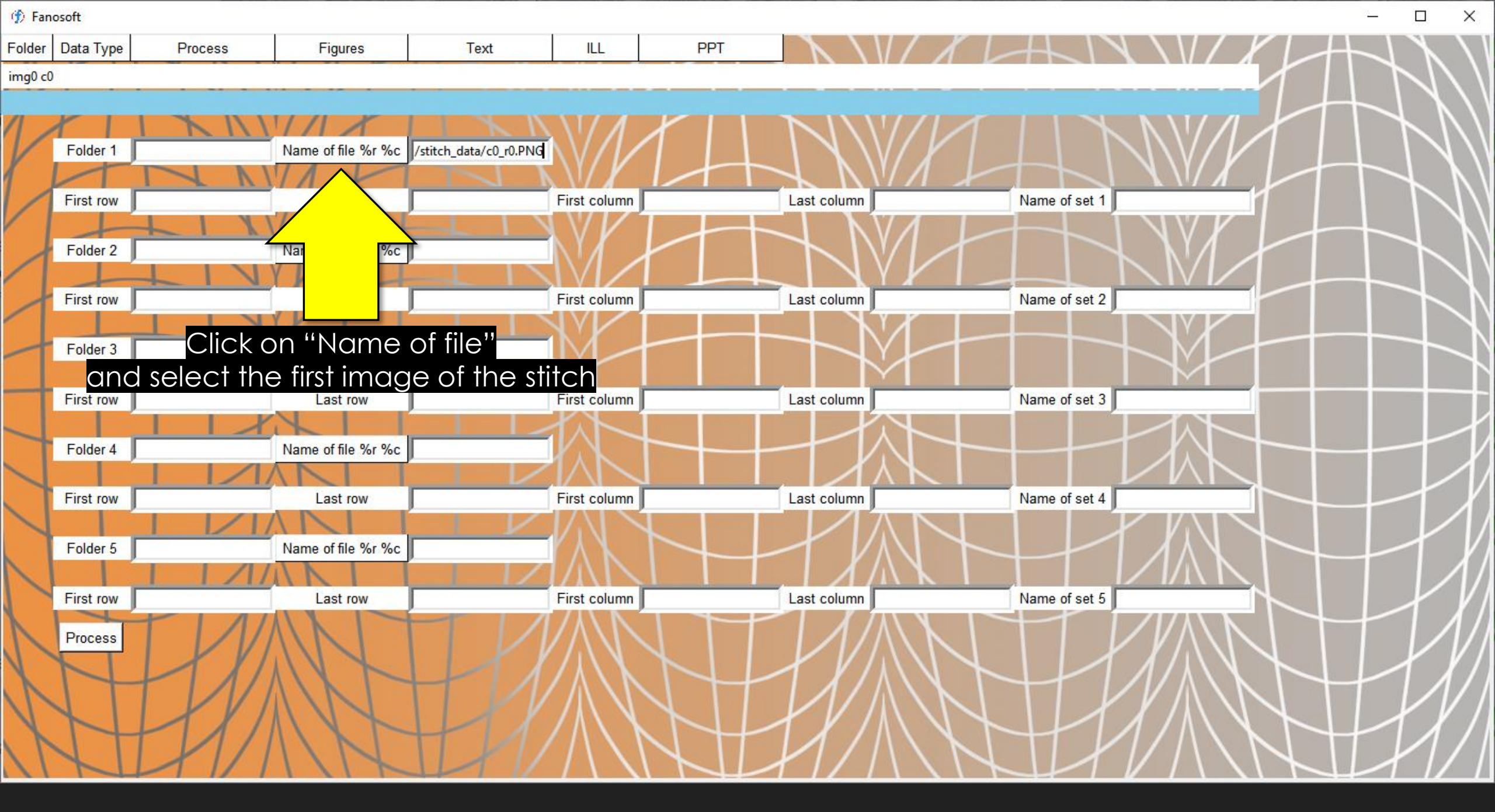
Example: Importing an image stich



Example importing an image stitch

- Click on “Data Type” in the upper left corner of the main window





Folder | Data Type | Process | Figures | Text | ILL | PPT

img0 c0

Folder 1 | |

First row | | | First column | | Last column | | Name of set 1 |

Folder 2 |

First row | | | First column | | Last column | | Name of set 2 |

Click on "Name of file"
and select the first image of the stitch

Folder 3 |

First row | | Last row | | First column | | Last column | | Name of set 3 |

Folder 4 |

First row | | Last row | | First column | | Last column | | Name of set 4 |

Folder 5 |

First row | | Last row | | First column | | Last column | | Name of set 5 |

Process

img0 c0

Folder 1 Name of file %r %c

First row Last row First column Last column Name of set 1

Folder 2 Name of file %r %c

First row Last row First column Last column Name of set 2

Folder 3 **Replace the row by %r and the column by %c**

First row **e.g. c0_r0.PNG → c%c_r%d.PNG** Last column Name of set 3

Folder 4 Name of file %r %c

First row Last row First column Last column Name of set 4

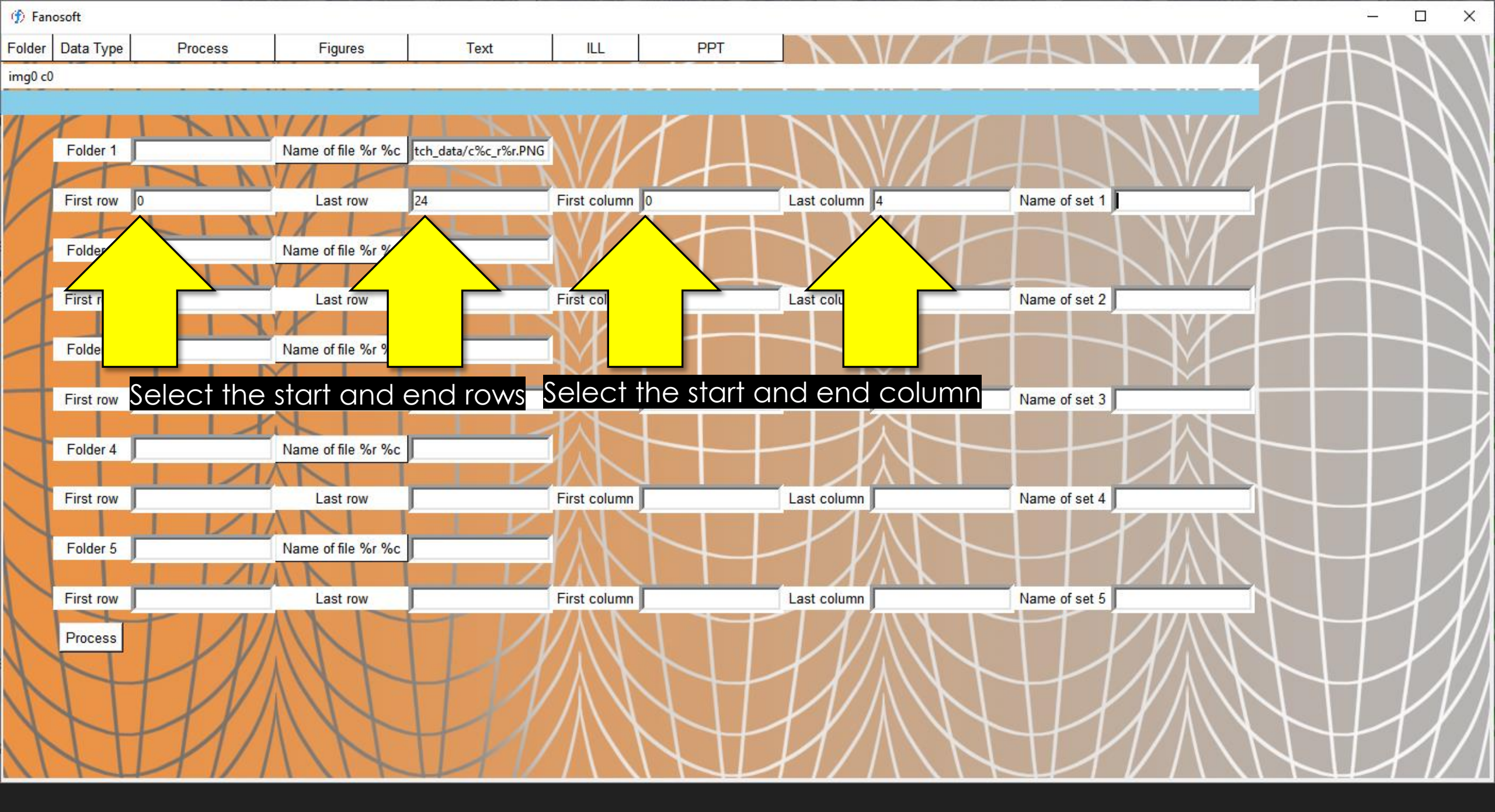
Folder 5 Name of file %r %c

First row Last row First column Last column Name of set 5

Process



Replace the row by %r and the column by %c
e.g. c0_r0.PNG → c%c_r%d.PNG



img0 c0

Folder 1 Name of file %r %c

First row Last row First column Last column Name of set 1

Folder Name of file %r %c

First row Last row First col Last col Name of set 2

Folder Name of file %r %c

First row **Select the start and end rows** **Select the start and end column** Name of set 3

Folder 4 Name of file %r %c

First row Last row First column Last column Name of set 4

Folder 5 Name of file %r %c

First row Last row First column Last column Name of set 5

Process

img0 c0

Folder 1 Name of file %r %c

First row Last row First column Last column Name of set 1

Folder 2 Name of file %r %c

First row Last row First column Last column Name of s

Folder 3 Name of file %r %c

First row Last row First column Last column

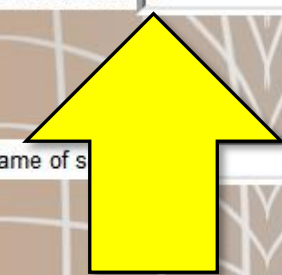
Folder 4 Name of file %r %c

First row Last row First column Last column Name of set 4

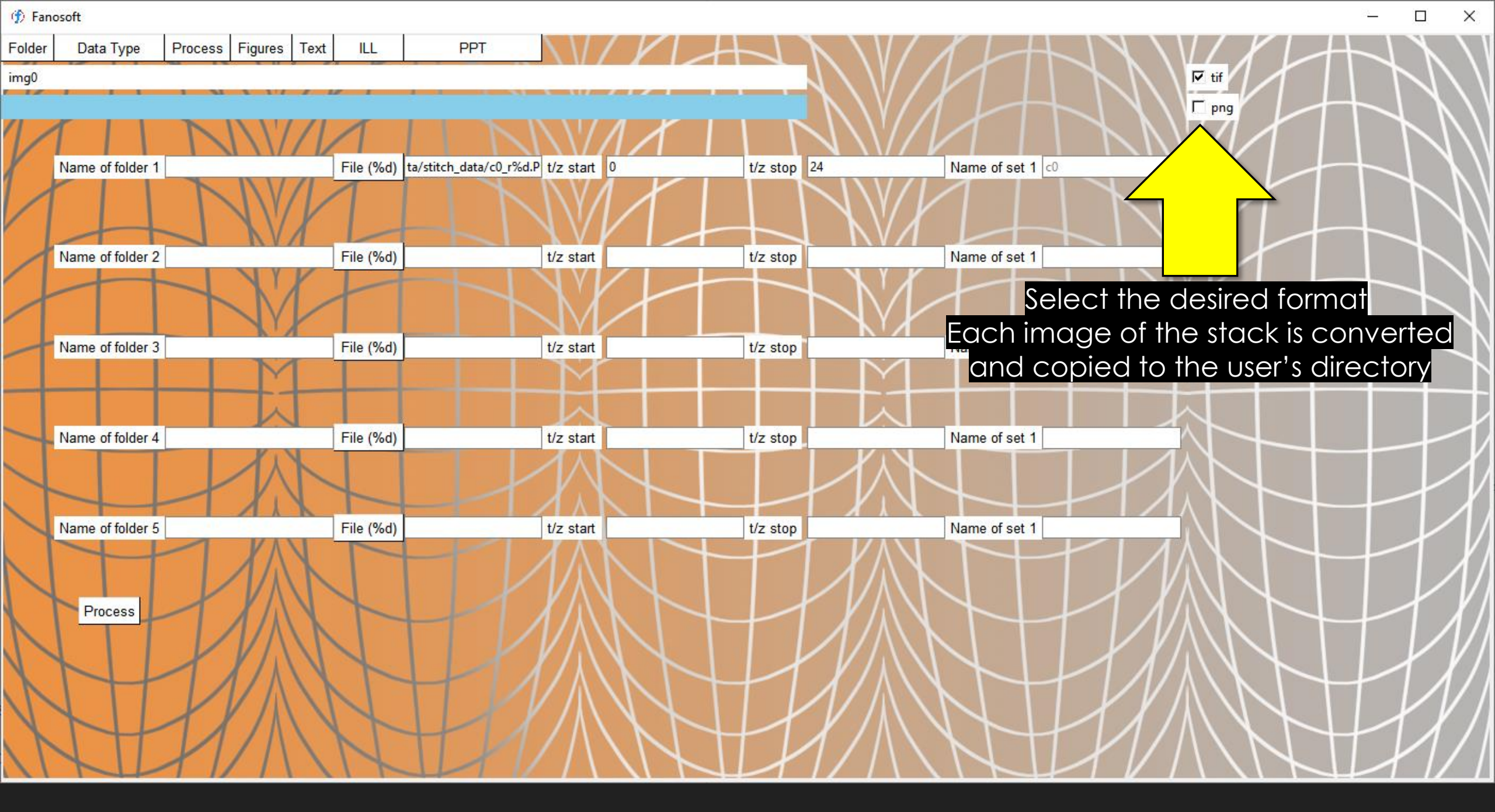
Folder 5 Name of file %r %c

First row Last row First column Last column Name of set 5

Process



Give a variable name to the stack



Folder Data Type Process Figures Text ILL PPT

img0

Name of folder 1 File (%d) ta/stitch_data/c0_r%d.P t/z start 0 t/z stop 24 Name of set 1 c0

Name of folder 2 File (%d) t/z start t/z stop Name of set 1

Name of folder 3 File (%d) t/z start t/z stop Name of set 1

Name of folder 4 File (%d) t/z start t/z stop Name of set 1

Name of folder 5 File (%d) t/z start t/z stop Name of set 1

tif
 png



Select the desired format
Each image of the stack is converted
and copied to the user's directory

Process

img0 c0

Folder 1 Name of file %r %c

First row Last row First column Last column Name of set 1

Folder 2 Name of file %r %c

First row Last row First column Last column Name of set 2

Folder 3 Name of file %r %c

First row Last row First column Last column Name of set 3

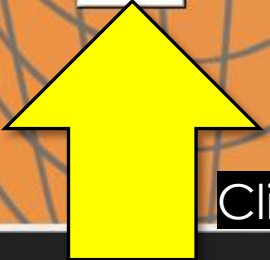
Folder 4 Name of file %r %c

First row Last row First column Last column Name of set 4

Folder 5 Name of file %r %c

First row Last row First column Last column Name of set 5

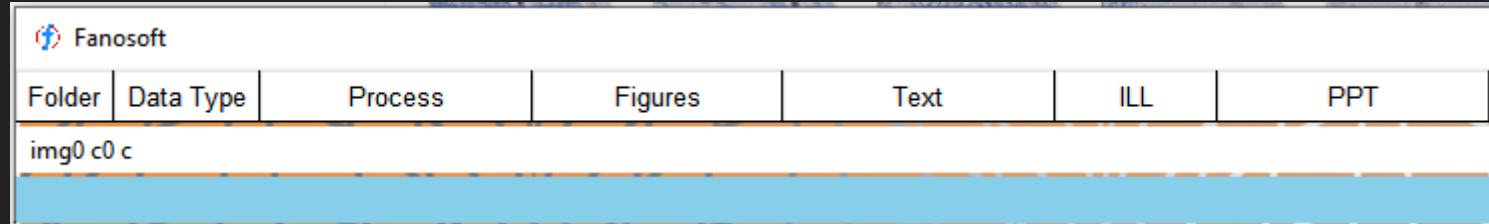
Process



Click on Process

Example: Importing an image stitch

- If the process is successful, a checkmark is displayed
- The imported variables are visible in the white banner and can be referenced:

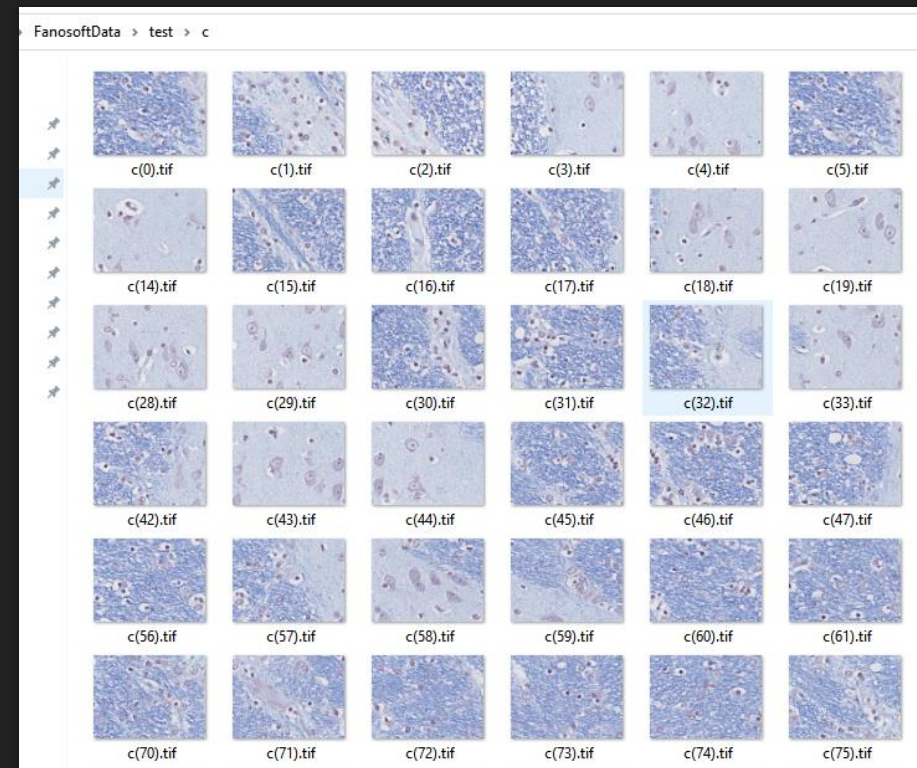


The screenshot shows a software interface with a white banner at the top. The banner contains a table with the following columns: Folder, Data Type, Process, Figures, Text, ILL, and PPT. Below the table, the text 'img0 c0 c' is visible, indicating imported variables. A blue bar is at the bottom of the interface.

Folder	Data Type	Process	Figures	Text	ILL	PPT
img0 c0 c						

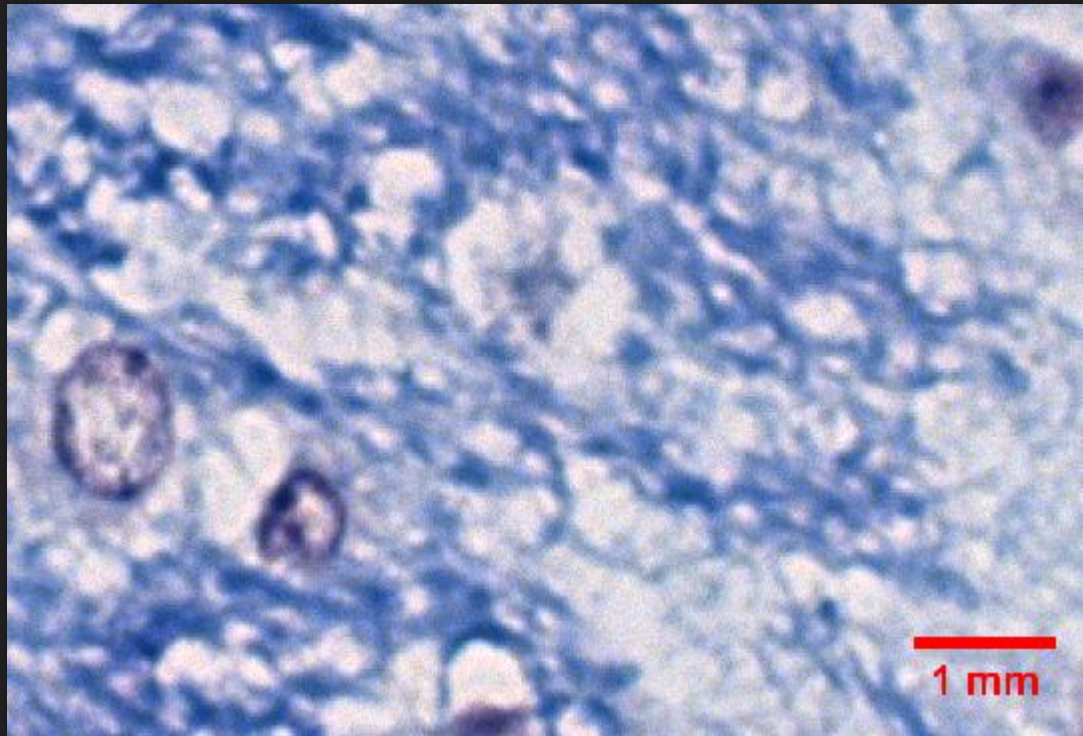
Example: Importing an image stitch

- Fanosoft copied the images in the user's directory (e.g. FanosoftData\Test) in a sub-folder with the name of the variable (e.g. c)



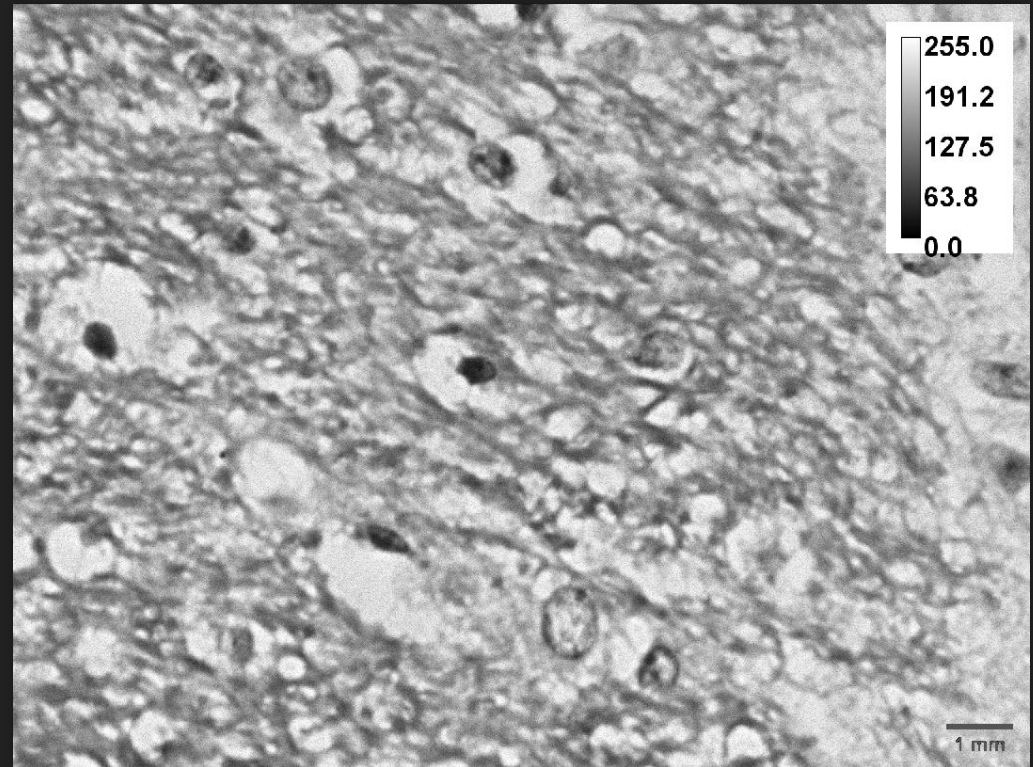
Scale & Calibration Bars

Scale & Calibration Bars Examples



Scale bar

Calibration bar



Scale & Calibration Bars

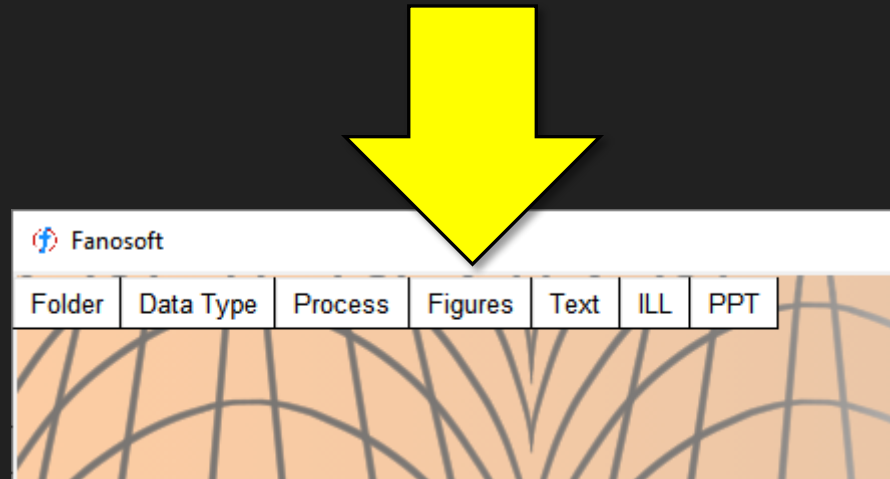
- Add scale bars or calibration bars to an image
- Work on a single image or an image stack
- The image or stack must be imported first (see “Importing images” section)
- The output image can be in color (RGB) or monochrome (32bits)

Scale & Calibration Bars

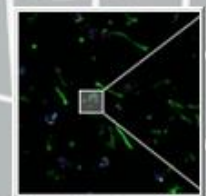
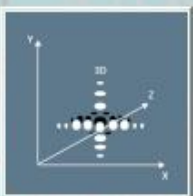
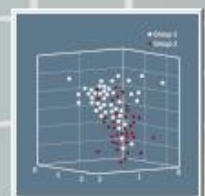
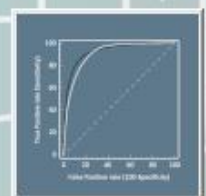
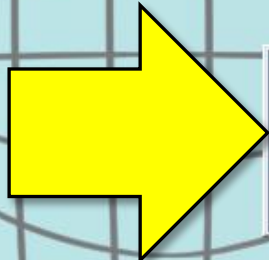
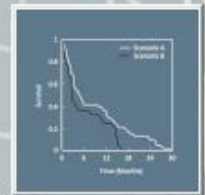
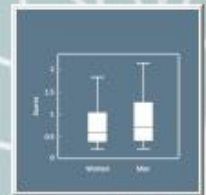
- For scale bars (e.g. 100 pixels = 1mm), the user specifies:
 - The distance in pixels ("Pixels per unit") e.g. 100
 - The unit of length ("Unit") e.g. mm
 - And the known distance in unit of length ("Length") e.g. 1
 - The color: Black, White, Red or Yellow
- Calibration bars display a legend with the pixel intensity
 - works with single channel/monochrome images => 32 bit must be selected

Scale & Calibration Bars

- Click on Figures



Figures



img0 c0 c

Scale and Calibration Bars

1 image
or 1 stack

Pixels per unit Unit Length

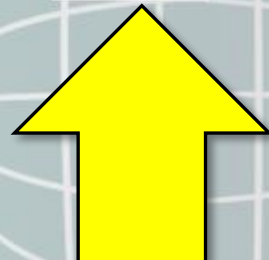
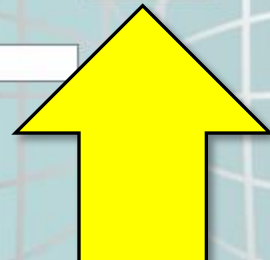
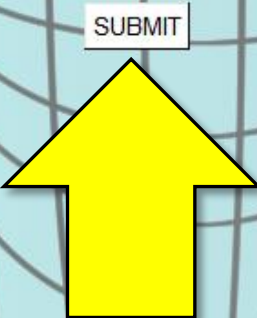
jet 32bit Calibration

Figure Name

Name of the image (can be a single image or a stack)

Select RGB (=color) or 32bit (=monochrome)
For Calibration bars, select always 32bit

To show a calibration bar



SUBMIT

Preview

Scale & Calibration Bars

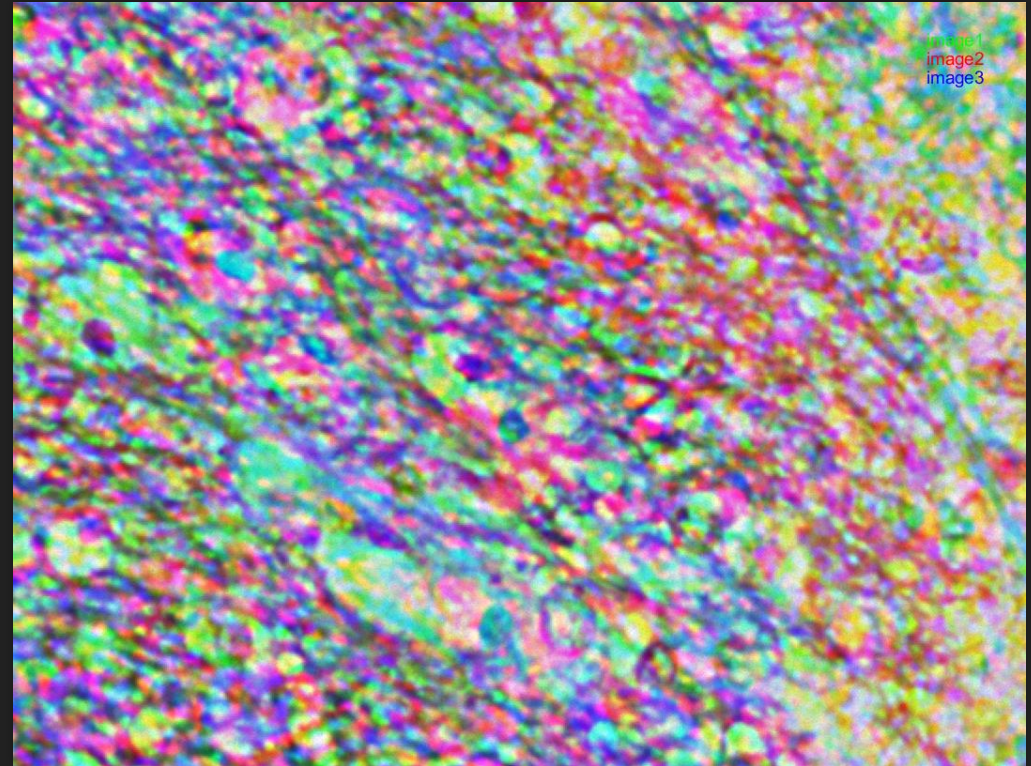
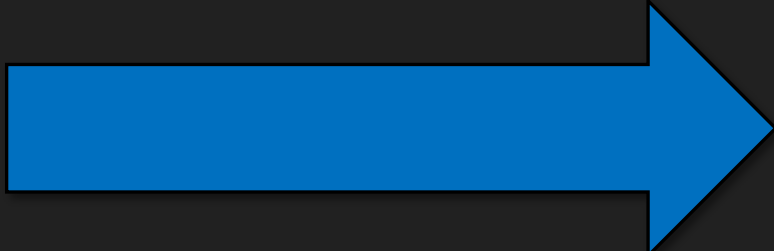
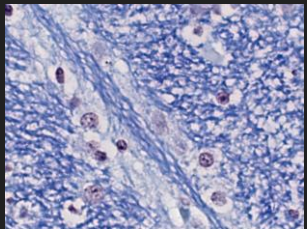
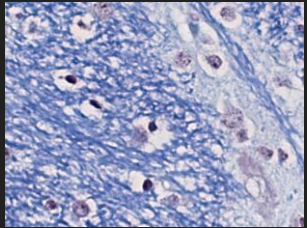
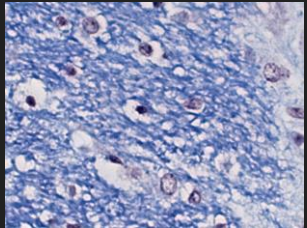
- Preview only displays the figure on the screen.
- Submit generates a .jpeg image and a PowerPoint slide in the user's directory
 - The filename is given by the field "Figure Name"



Merge Channels

Merge 2 or 3 images

Merge Channels Example

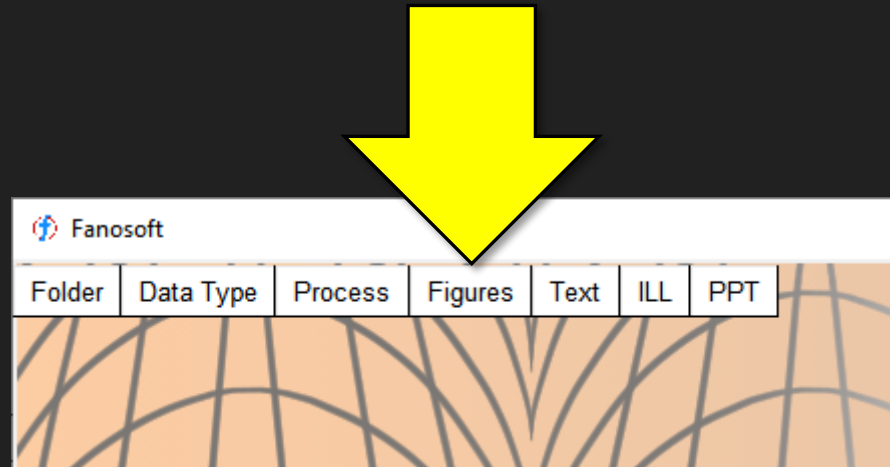


Merge Channels

- Merge 2 or 3 images into one
 - Each input image is first converted to the desired color
 - Available colors: Green, Red, Blue or Yellow
 - Then the images are merged into one
- Input images must be imported first (refer to “Importing a single image” section)

Merge Channels

- Click on Figures



Figures

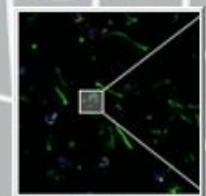
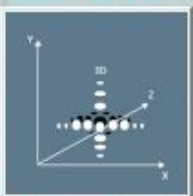
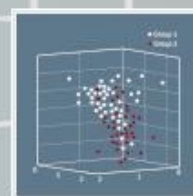
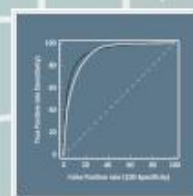
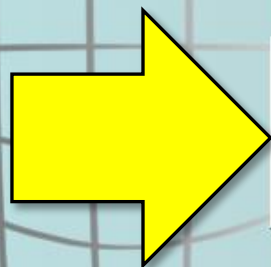
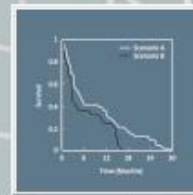
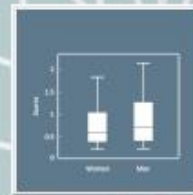


image1 image2 image3

Merge Channels

Channel #1	<input type="text" value="image1"/>	Legend	<input type="text" value="image1"/>	Red	▾
Channel #2	<input type="text" value="image2"/>	Legend	<input type="text" value="image2"/>	Green	▾
Channel #3	<input type="text" value="image3"/>	Legend	<input type="text" value="image3"/>	Blue	▾
				Legend Position	▾

Set names of input images to merge (2 or 3)

Figure Name

SUBMIT

Preview

image1 image2 image3

Merge Channels

Channel #1	image1	Legend	image1
Channel #2	image2	Legend	image2
Channel #3	image3	Legend	image3

- Red
- Green
- Blue
- Legend Position

Figure Name merge

SUBMIT

Preview

Choose colors

image1 image2 image3

Merge Channels

Channel #1	<input type="text" value="image1"/>	Legend	<input type="text" value="image1"/>	Red	▾
Channel #2	<input type="text" value="image2"/>	Legend	<input type="text" value="image2"/>	Green	▾
Channel #3	<input type="text" value="image3"/>	Legend	<input type="text" value="image3"/>	Blue	▾
				Legend Position	▾

Figure Name

Set a name for the output image

SUBMIT

Preview

image1 image2 image3

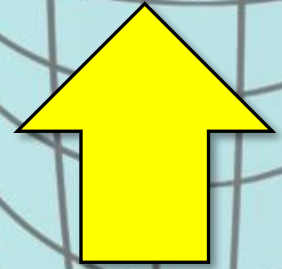
Merge Channels

Channel #1	<input type="text" value="image1"/>	Legend	<input type="text" value="image1"/>	Red	▾
Channel #2	<input type="text" value="image2"/>	Legend	<input type="text" value="image2"/>	Green	▾
Channel #3	<input type="text" value="image3"/>	Legend	<input type="text" value="image3"/>	Blue	▾
				Legend Position	▾

Figure Name

SUBMIT

Preview



Click on SUBMIT or Preview

Merge Channels

- Preview only displays the figure on the screen.
- Submit generates a .jpeg image and a PowerPoint slide in the user's directory
 - The filename is given by the field "Figure Name"



Image Stitching

Image Stitching

- Combine multiple images with overlapping fields of view
- Produce a high resolution photo mosaic
- Input is an image stack (1D image array)
- Image stack must be imported first (see “Importing images” section)
 - Note that Fanosoft imports 2D arrays row-by-row

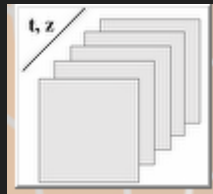
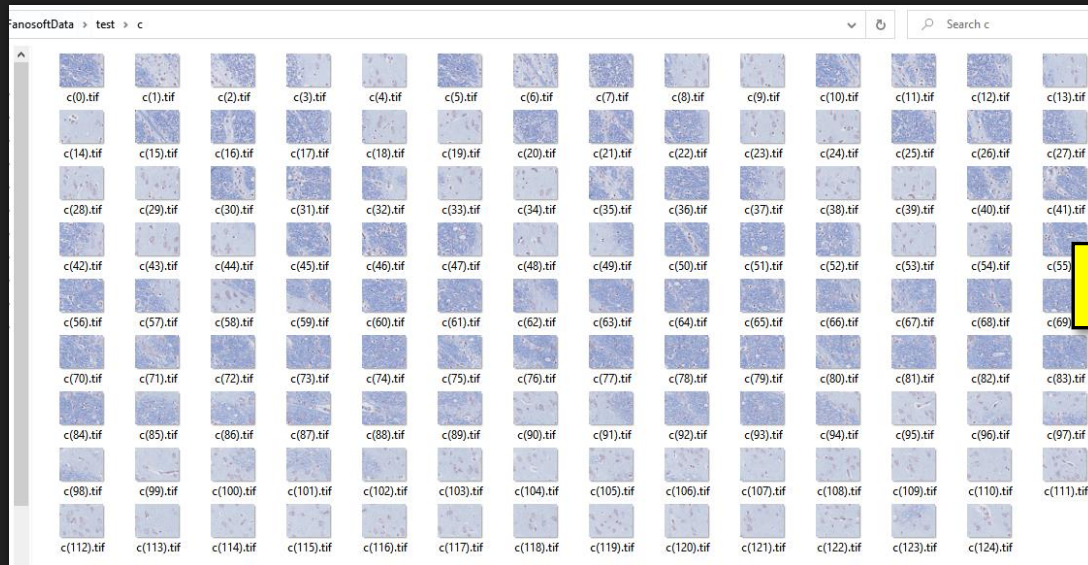


Image Stitching Example



Stitching

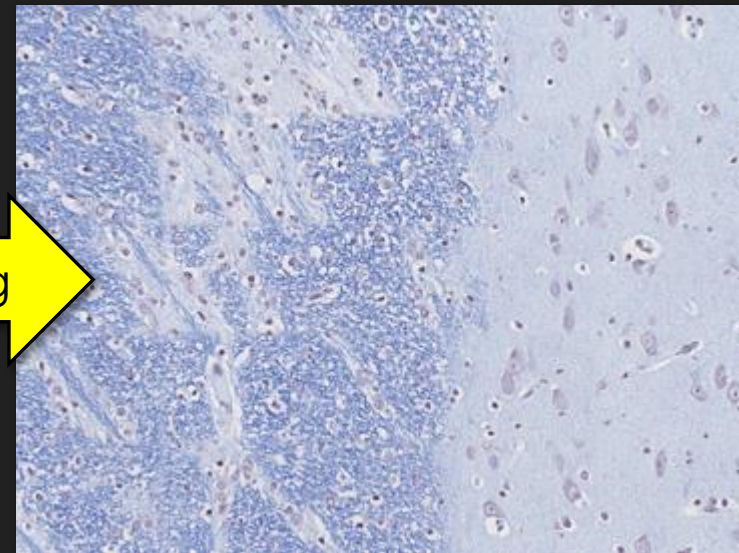


Image Stitching Options

- Number of images in the horizontal (X) and vertical (Y) directions
 - Must match the number of images in the stack: $X = 25$ $Y = 5 \Rightarrow$ Image stack with 125 images
- Image overlap percentage = shared image area between 2 adjacent images, e.g. 10%
- Scale of the stitch: x0.5 x0.3 x0.2 x0.1 x0.05 x0.01
- Order of the images in the stack
 - Row-by-row or column-by-column
 - Right&Down, Left&Down, Right&Up or Left&Up (see next slides)

Image Overlap (e.g 80%)



Image Stitching Options – row-by-row

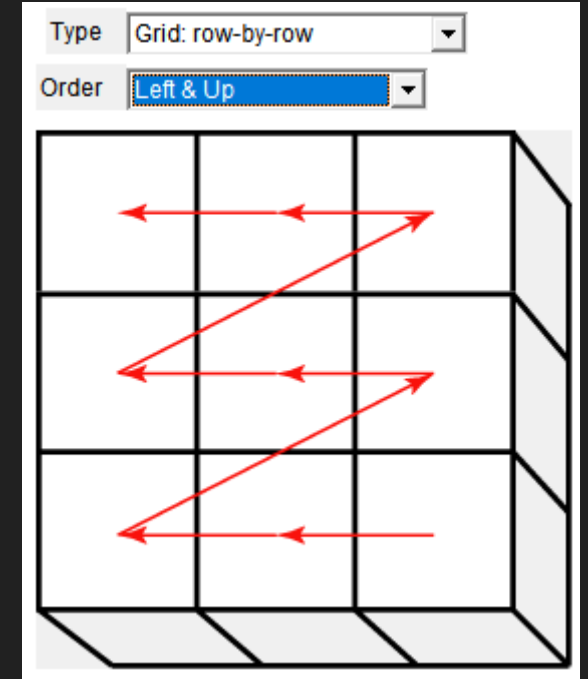
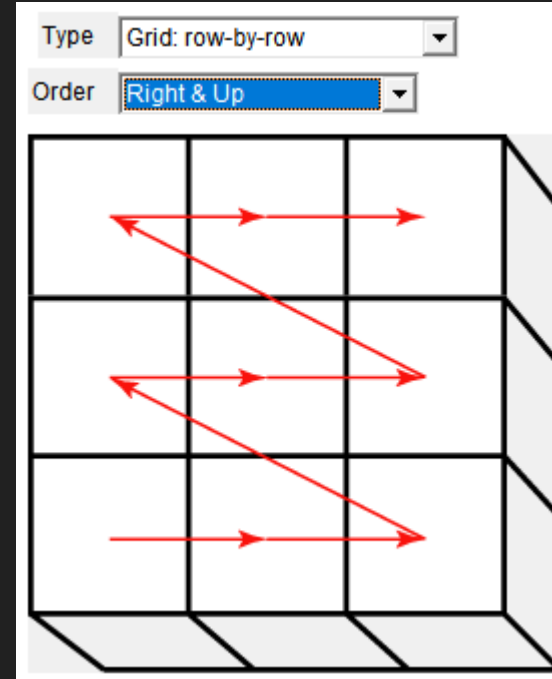
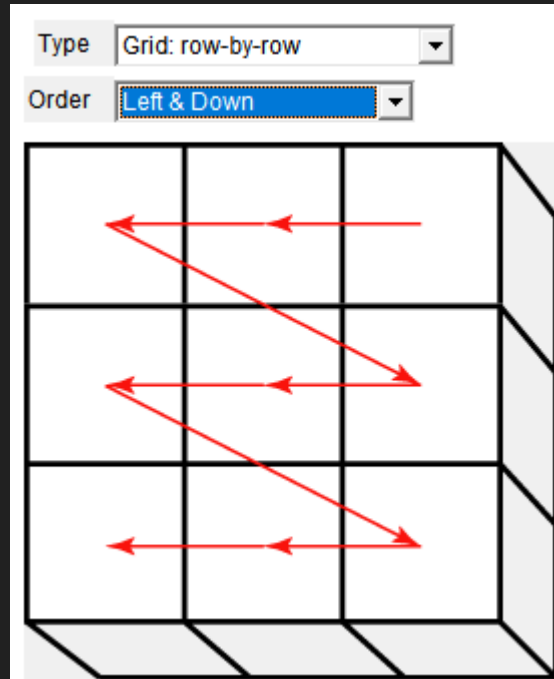
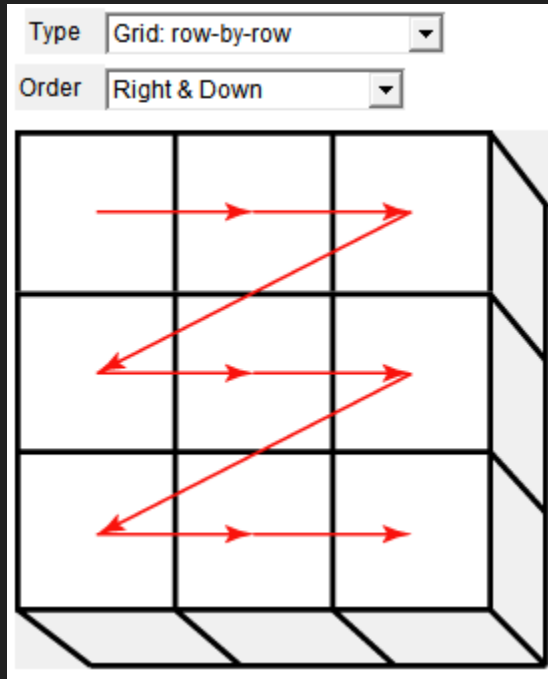


Image Stitching Options – column-by-col.

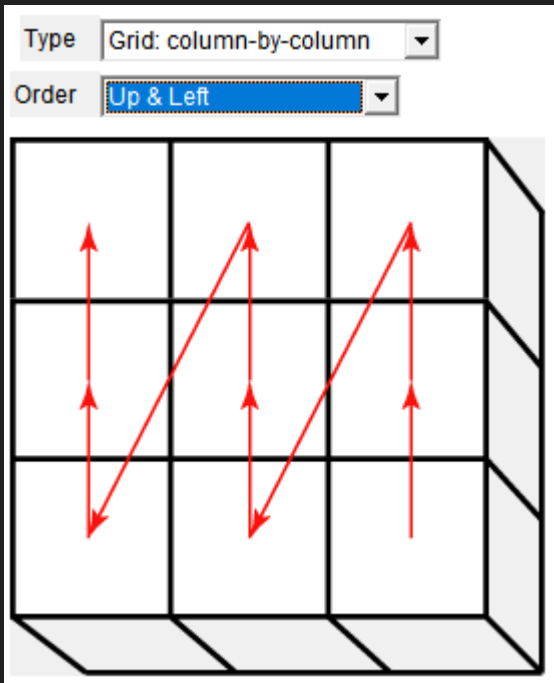
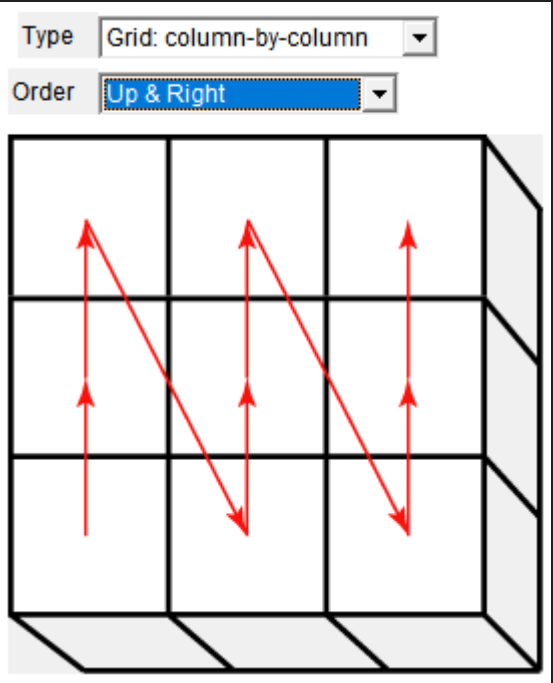
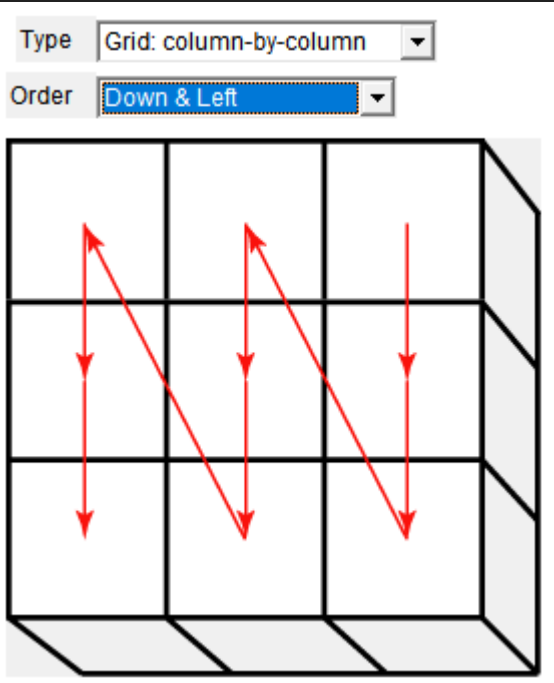
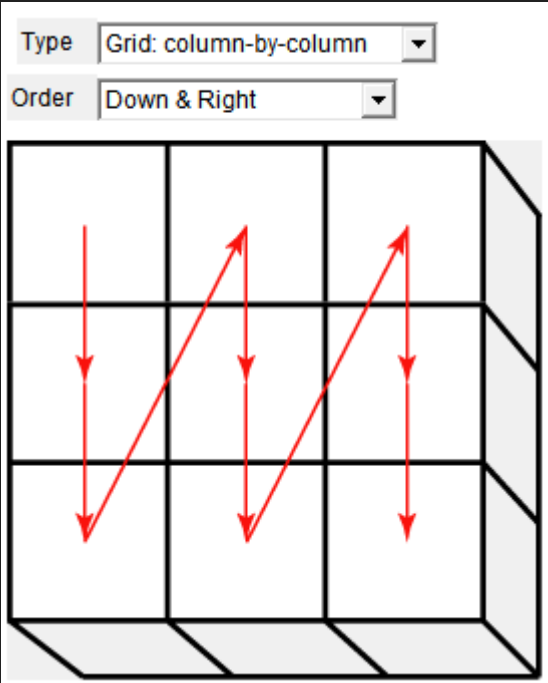
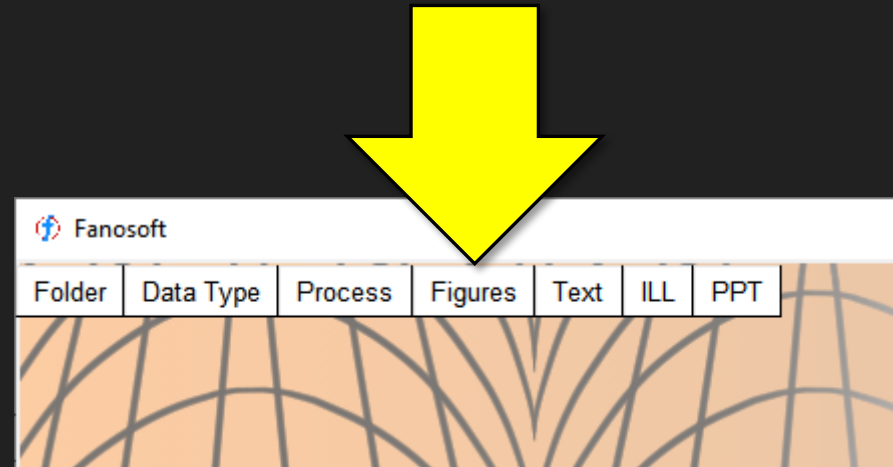


Image Stitching in Fanosoft

- Click on Figures



Figures

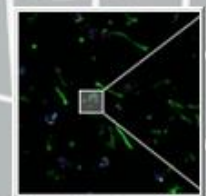
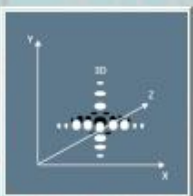
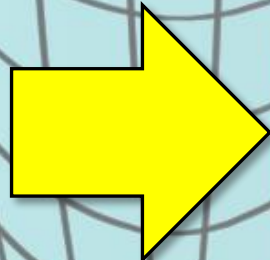
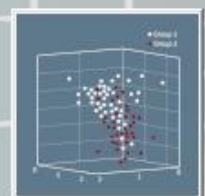
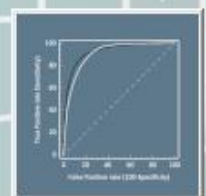
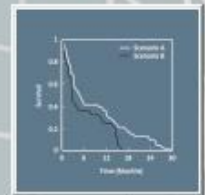
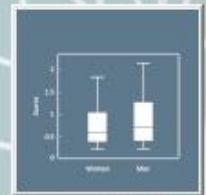


image1 image2 image3

Name of input stack (must be imported first)

Stitching

Stack to be stitched

Grid x

Grid y

Overlap %

row-by-row

Right & Down

Figure Name

New inset

Delete insets

Line Style

Line Color

SUBMIT

Preview

image1 image2 image3

Stitching

Stack to be stitched c

Grid x 5

Grid y 5

Number of columns overlap % 10

0.05

row-by-row

Right & Down

Figure Name stitch

New inset

Delete insets

Line Style

Line Color

SUBMIT

Preview

Folder | Data Type | Process | Figures | Text | ILL | PPT

image1 image2 image3

Stitching

Stack to be stitched

Grid x

Grid y

Overlap % **Number of rows**

row-by-row

Right & Down

Figure Name

New inset

Delete insets

Line Style

Line Color

SUBMIT

Preview

Folder | Data Type | Process | Figures | Text | ILL | PPT

image1 image2 image3

Stitching

Stack to be stitched

Grid x

Grid y

Overlap %

Image overlap percentage

▾

row-by-row ▾

Right & Down ▾

Figure Name

New inset

Delete insets

Line Style ▾

Line Color ▾

SUBMIT

Preview

Folder | Data Type | Process | Figures | Text | ILL | PPT

image1 image2 image3

Stitching

Stack to be stitched

Grid x

Grid y

Overlap %

Scale of the output image

row-by-row

Right & Down

Figure Name

New inset

Delete insets

Line Style

Line Color

SUBMIT

Preview

Folder | Data Type | Process | Figures | Text | ILL | PPT

image1 image2 image3

Stitching

Stack to be stitched

Grid x

Grid y

Overlap %

▾

▾

▾

Order of the input images

Figure Name

New inset

Delete insets

Line Style ▾

Line Color ▾

SUBMIT

Preview

Folder | Data Type | Process | Figures | Text | ILL | PPT

image1 image2 image3

Stitching

Stack to be stitched	<input type="text" value="c"/>		
Grid x	<input type="text" value="5"/>	Grid y	<input type="text" value="5"/>
		Overlap %	<input type="text" value="10"/>
<input type="text" value="0.05"/>	<input type="text" value="row-by-row"/>	<input type="text" value="Right & Down"/>	
Figure Name	<input type="text" value="stitch"/>		
<input type="button" value="New inset"/>	<input type="button" value="Delete insets"/>	<input type="text" value="Line Style"/>	<input type="text" value="Line Color"/>

Optional image insets

SUBMIT

Preview

Folder | Data Type | Process | Figures | Text | ILL | PPT

image1 image2 image3

Stitching

Stack to be stitched

Grid x

Grid y

Overlap %

▾

row-by-row ▾

Right & Down ▾

Figure Name

New inset

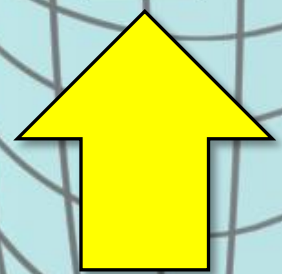
Delete insets

Line Style ▾

Line Color ▾

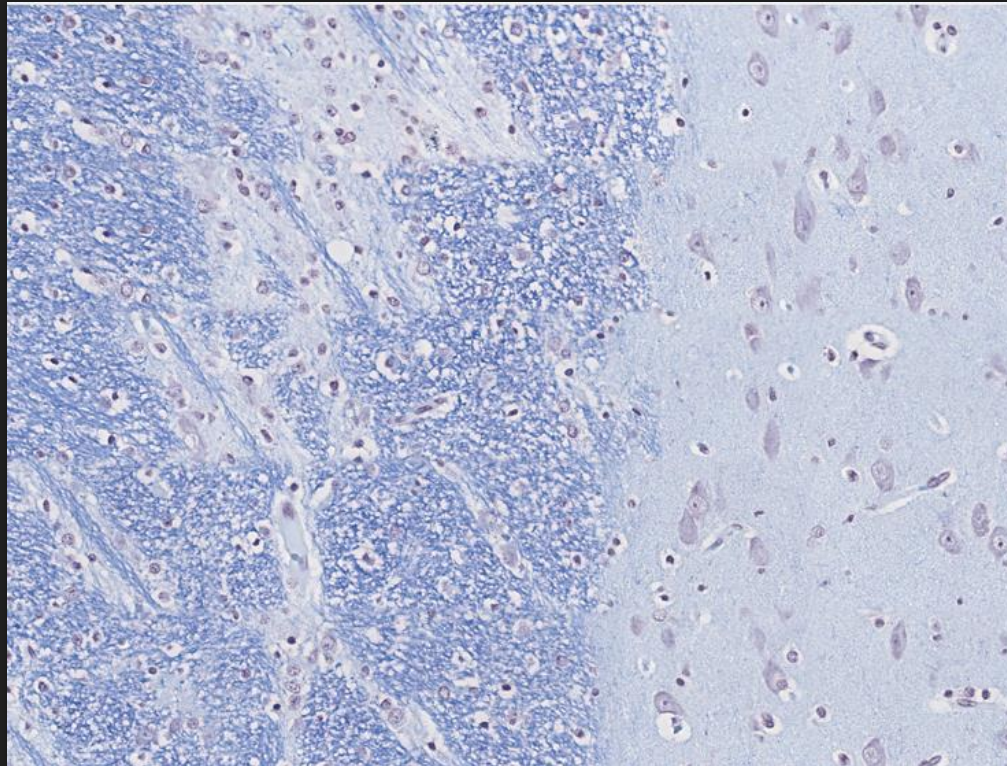
SUBMIT

Preview

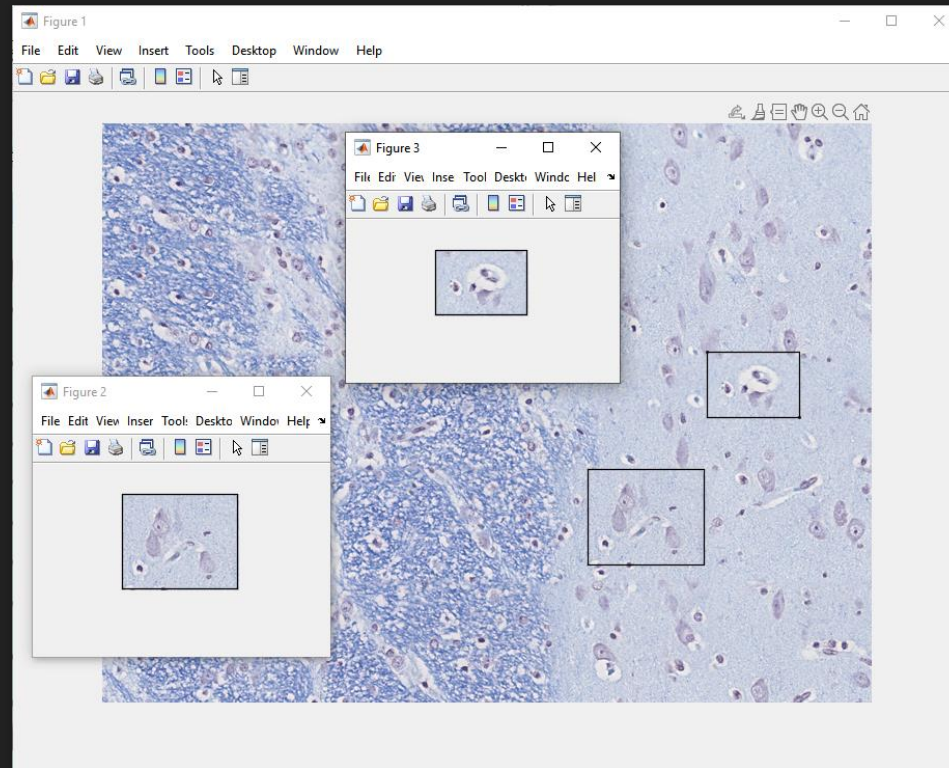


Click on SUBMIT or Preview

Image Stitching Example

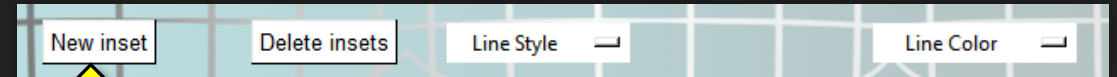


Adding Image Insets



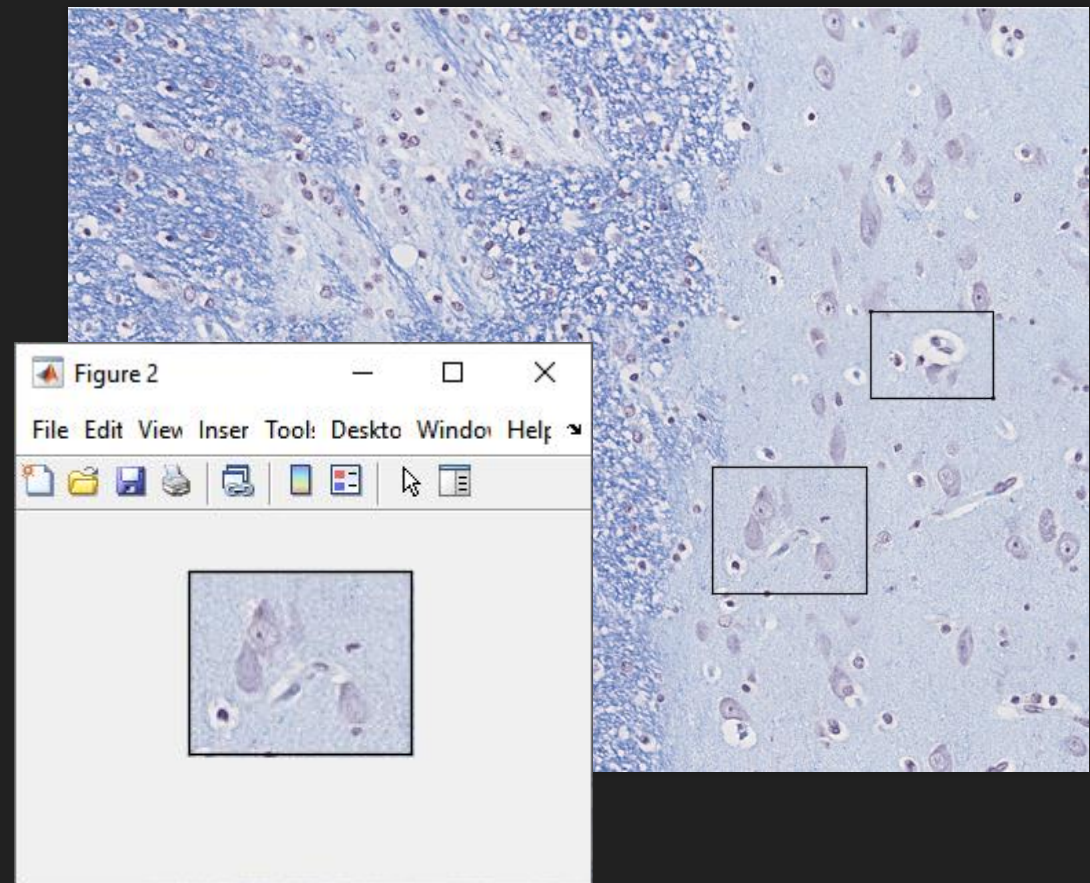
Adding Image Insets

- To add optional image insets
 - Generate a preview of the stitch
 - Select the desired line style & color
 - Click on New inset



Adding Image Insets

- Click in the preview once to select the first corner of the inset
- Click one more time in the stitch preview to select the 2nd corner
- The inset appears in a separate window
- You can create other insets by clicking on “New inset” again
- You can delete all insets by clicking on “Delete insets”
- Click on SUBMIT to export the stitch + all insets as images + PPT slides

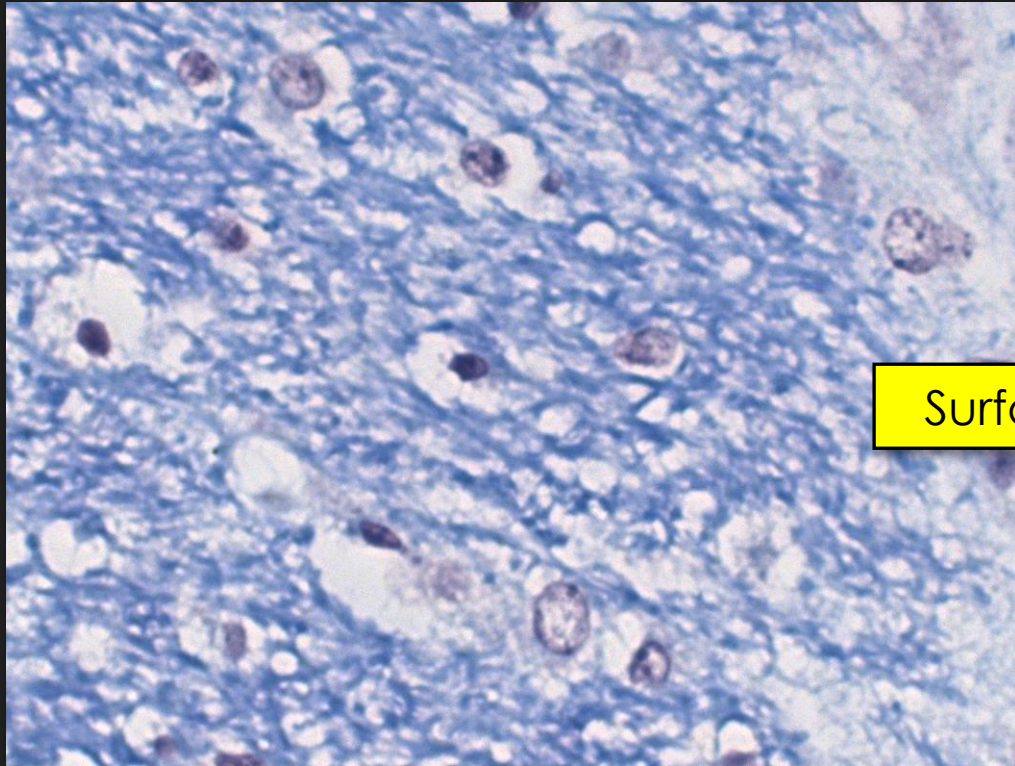


3D Rendering

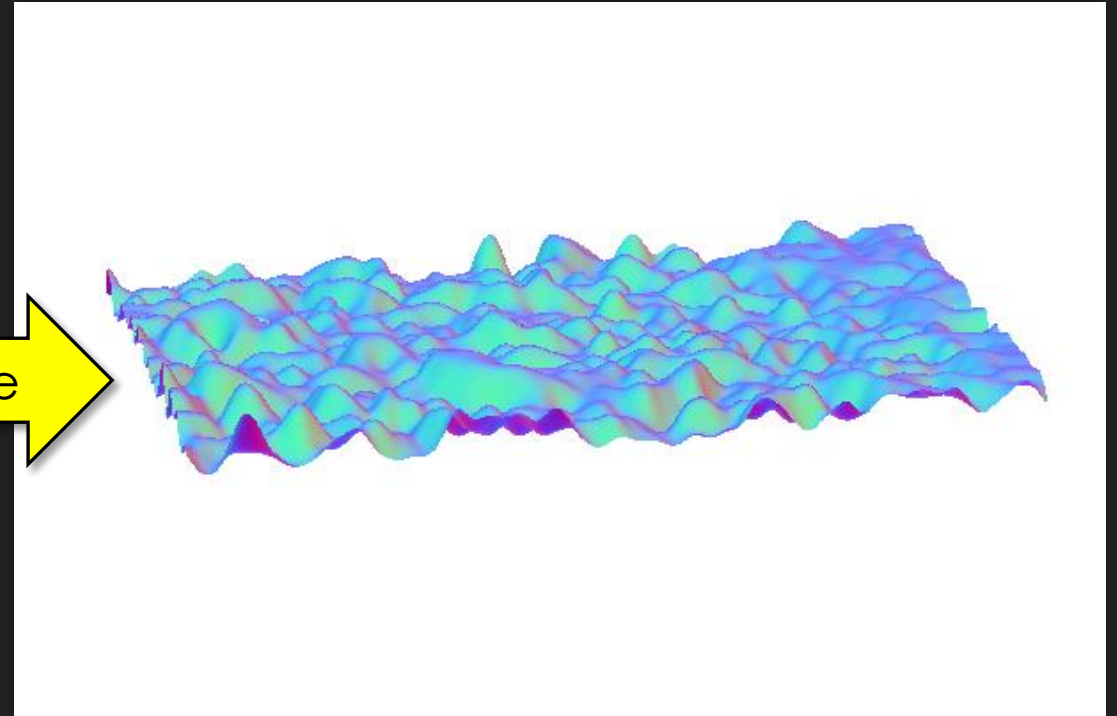
3D Rendering

- Render an image or an image stack in 3D
- 2 type of 3D rendering available:
 - Surface plot
 - Volume
- Image or image stack must be imported first (see “Importing Images” section)

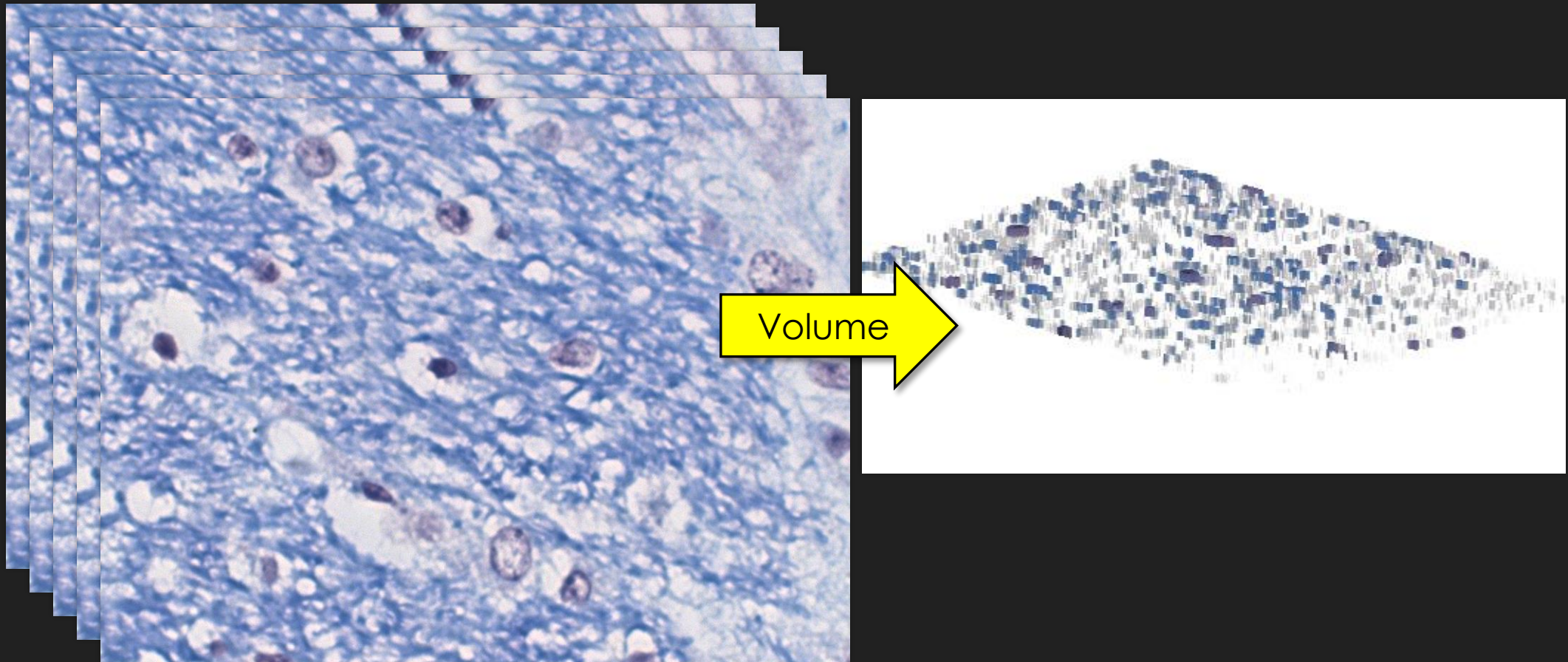
3D Rendering Example (Image→Surface)



Surface

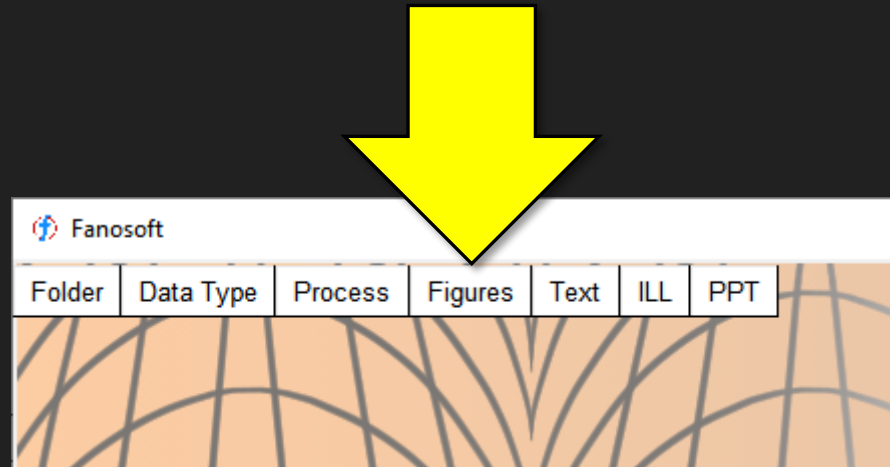


3D Rendering Example (Stack→Volume)



3D Rendering in Fanosoft

- Click on Figures



Figures

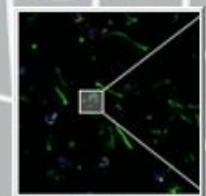
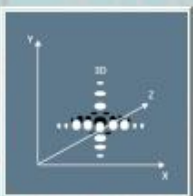
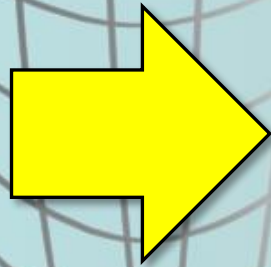
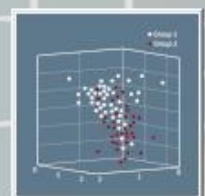
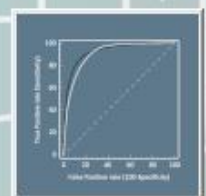
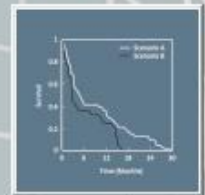
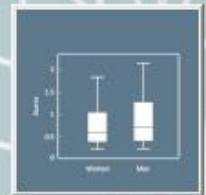


image1 image2 image3 cnew

video video

Name of input image or stack (must be imported first) Rendering

1 image
or 1 stack
or stacks over time stack subgroup # time points #

surface plot

Figure Name

SUBMIT

Preview

image1 image2 image3 cnew
video video

3D Rendering

1 image
or 1 stack
or stacks over time stack subgroup # time points #

Surface plot or Volume

Figure Name

SUBMIT

Preview

Folder | Data Type | Process | Figures | Text | ILL | PPT

image1 image2 image3 cnew
video video

3D Rendering

1 image
or 1 stack
or stacks over time stack subgroup # time points #
surface plot

Figure Name

Output filename (in user's directory)

SUBMIT

Preview

Folder | Data Type | Process | Figures | Text | ILL | PPT

image1 image2 image3 cnew
video video

3D Rendering

1 image

or 1 stack

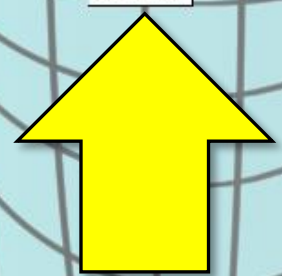
or stacks over time stack subgroup # time points #

surface plot

Figure Name

SUBMIT

Preview



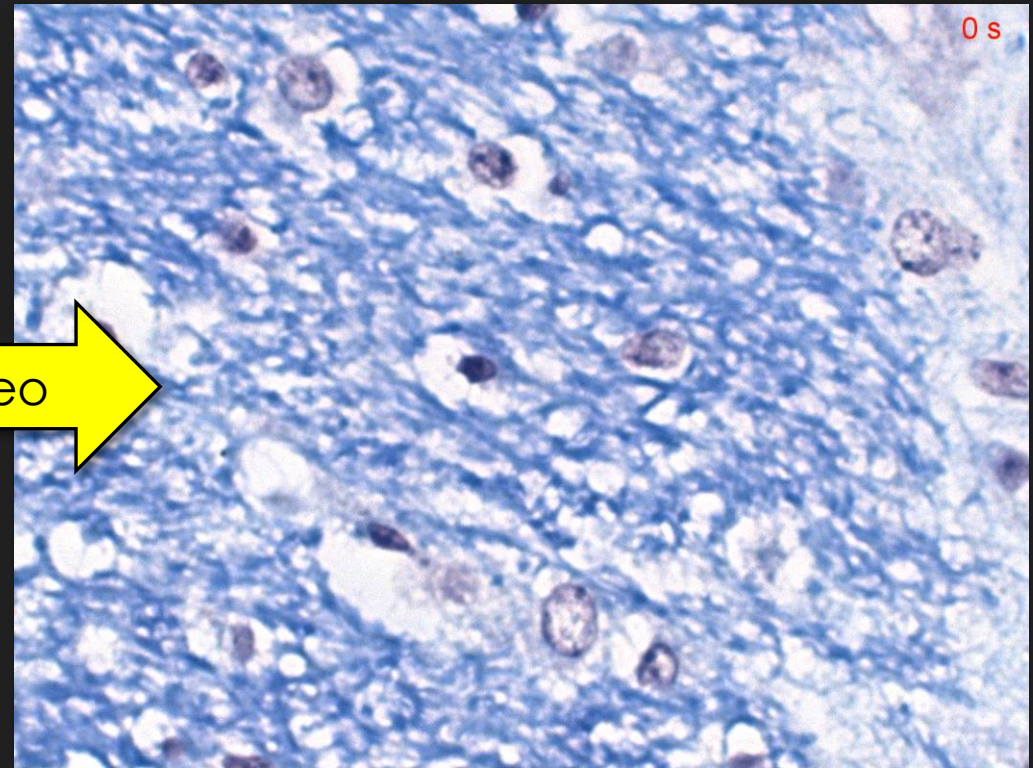
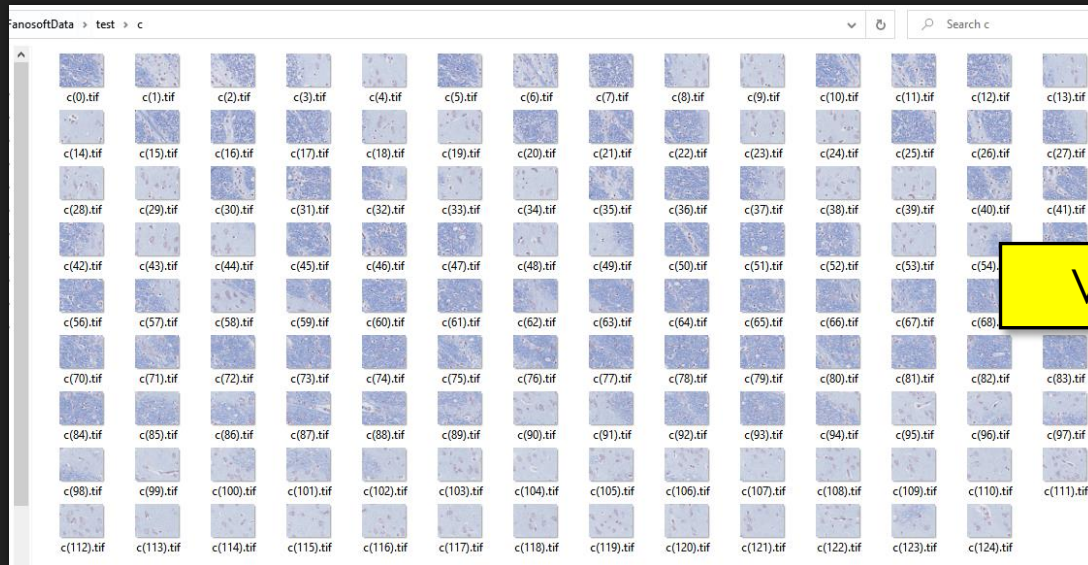
Click on SUBMIT or Preview

Video

Page Video

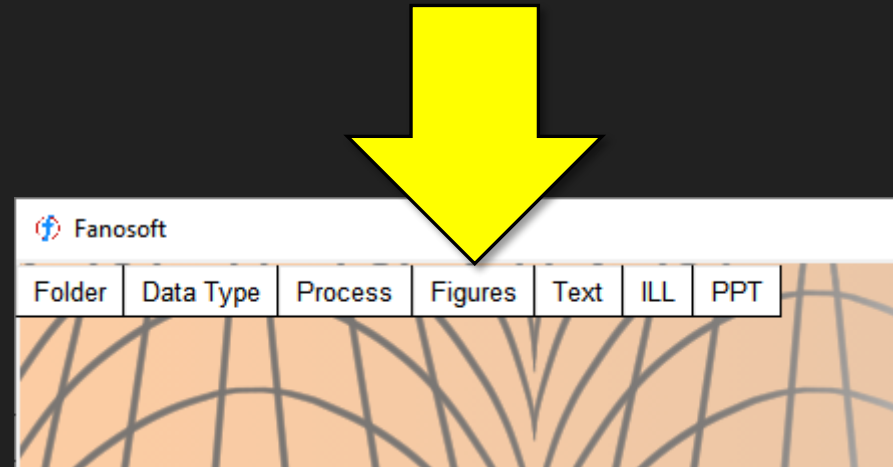
- Convert an image stack to a video (.avi file)
- Optionally display a timestamp in each frame
 - Timestamp increment is configurable e.g. 1
 - Available units: s, min, hr, microns, nanometers
 - Position and color of the timestamp are configurable

Video Example



Video in Fanosoft

- Click on Figures



Figures

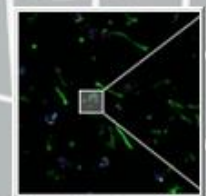
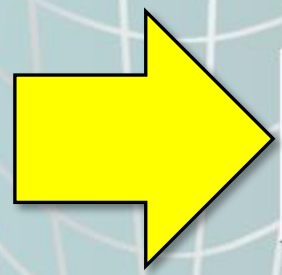
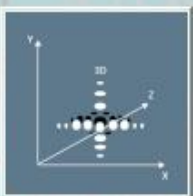
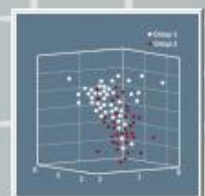
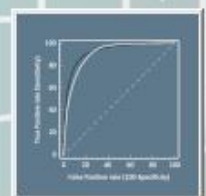
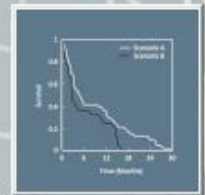
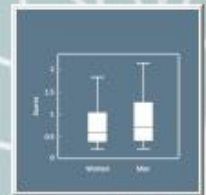


image1 image2 image3 cnew

video video

Name of input stack (must be imported first) Video

Stack name

label increment s ▾

topright ▾ red ▾

Figure Name

SUBMIT

image1 image2 image3 cnew
video video

Video

Stack name

label increment

topright

Figure Name

SUBMIT

Timestamp settings
Leave as-is for no timestamp

image1 image2 image3 cnew

video video

Video

Stack name

label increment s

topright

red

Figure Name

SUBMIT

**Video filename e.g. "video.avi"
(saved in the user's directory)**

image1 image2 image3 cnew
video video

Video

Stack name

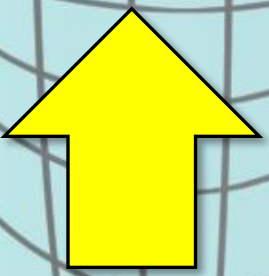
label increment s

topright

red

Figure Name

SUBMIT



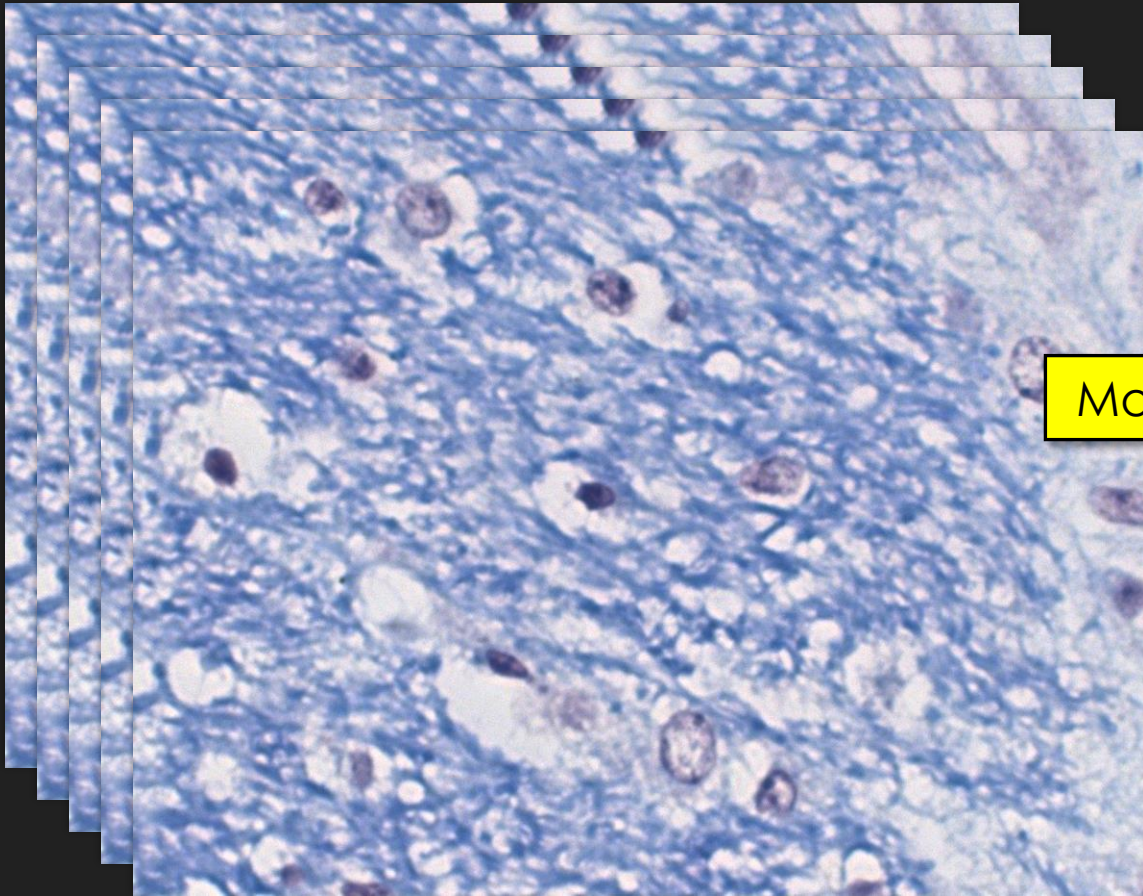
Click on SUBMIT
(No preview available)

Montage

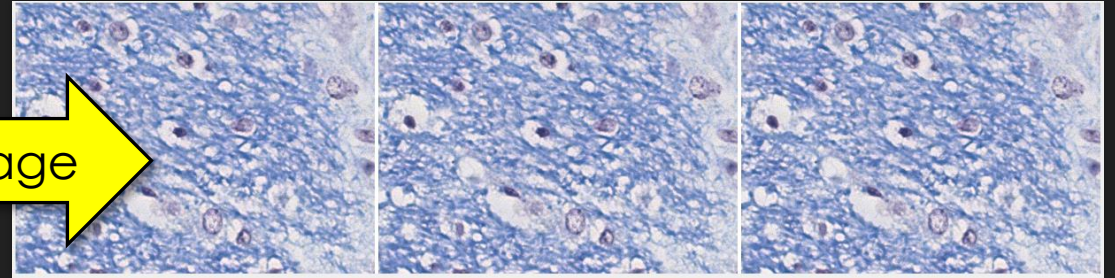
Montage

- Create a montage from an image stack
 - A montage is the result of making a composite image by assembling multiples images
- Images are assembled as a matrix array
 - Available formats (rowsxcols): 1x3 1x5 3x3 3x4 4x4 4x5 5x5

Montage Example (1x3)

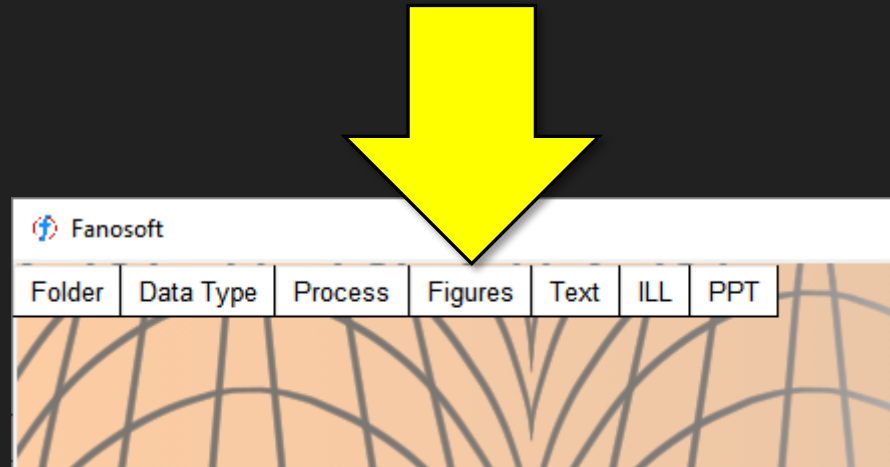


Montage

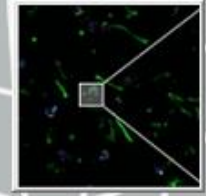
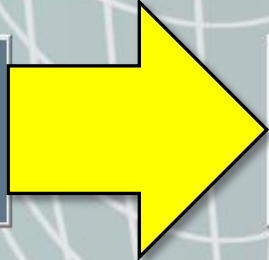
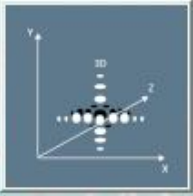
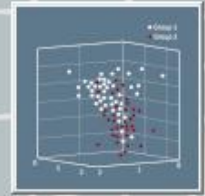
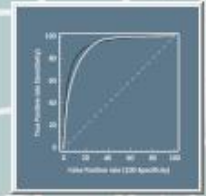
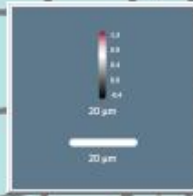
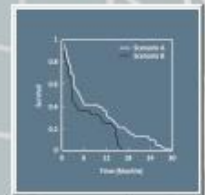
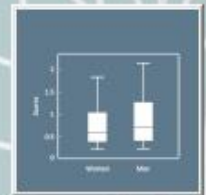
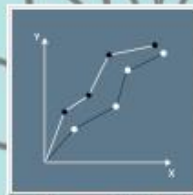


Montage in Fanosoft

- Click on Figures



Figures



Folder Data Type Process Figures Text ILL PPT

image1 image2 image3 cnew

video video

Name of input stack (must be imported first)

Stack

1,3

Figure Name

SUBMIT

Preview

image1 image2 image3 cnew

video video

Montage

Stack c0

1,3

Montage format (rowsxcolumns)

Figure Name

SUBMIT

Preview

Folder Data Type Process Figures Text ILL PPT

image1 image2 image3 cnew

video video

Montage

Stack

1,3

Figure Name

Output filename
(in the user's directory)

SUBMIT

Preview

Folder Data Type Process Figures Text ILL PPT

image1 image2 image3 cnew

video video

Montage

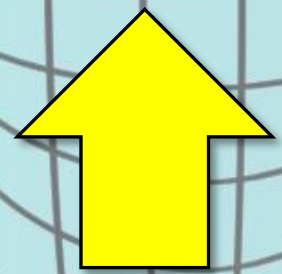
Stack

1,3

Figure Name

SUBMIT

Preview



Click on SUBMIT or Preview

Montage output

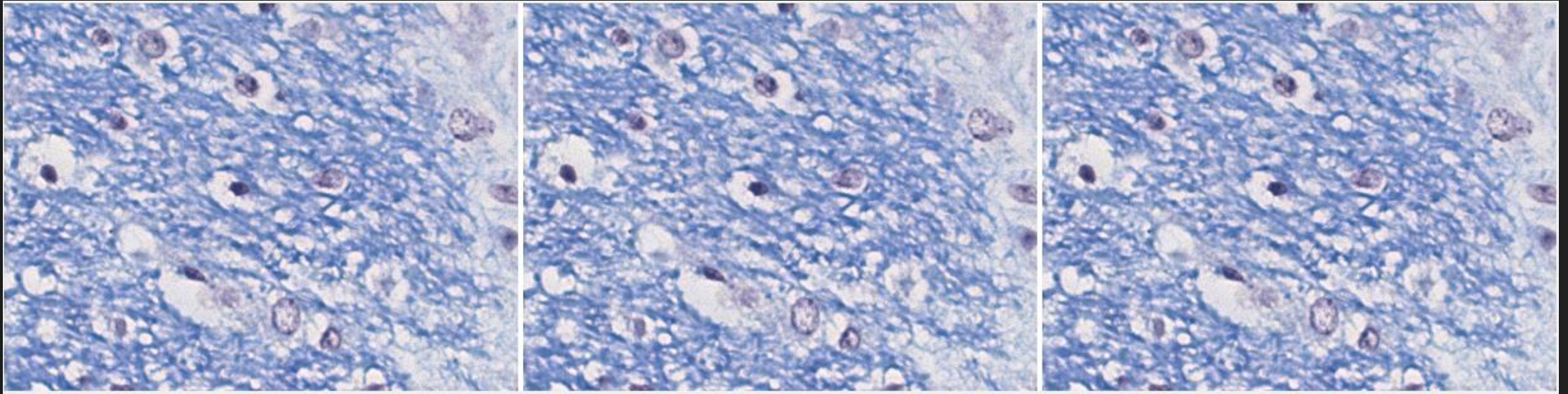


Image Inset

Add an inset to an image

Image Inset Example

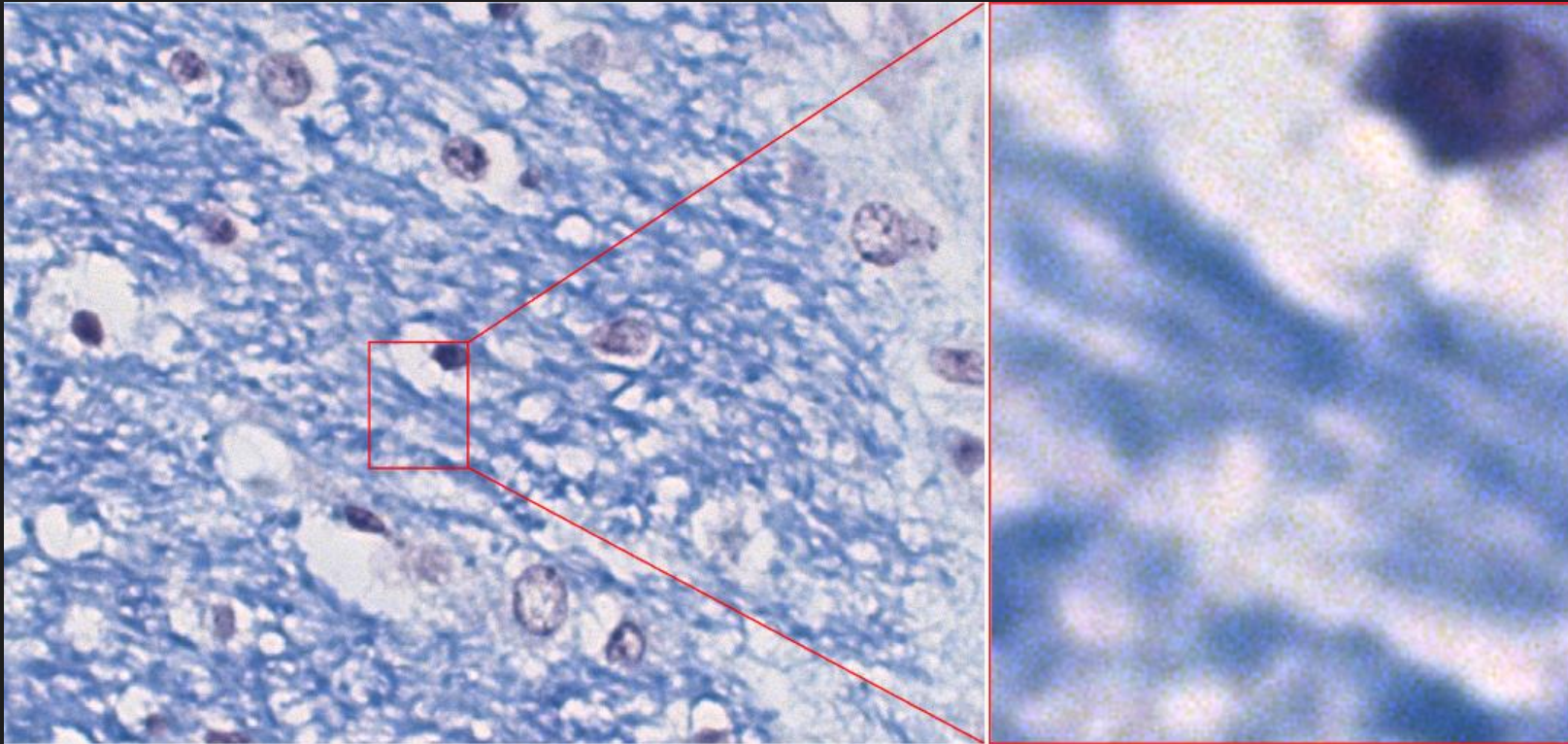
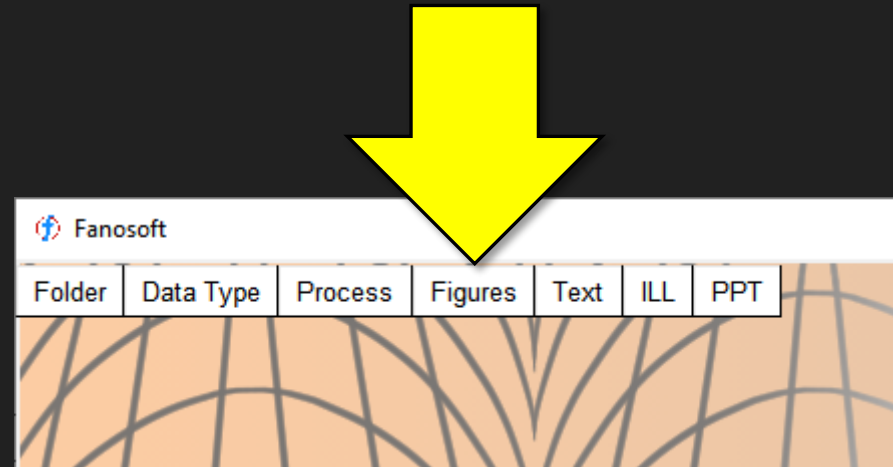


Image Inset in Fanosoft

- Click on Figures



Figures

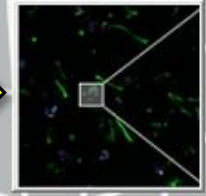
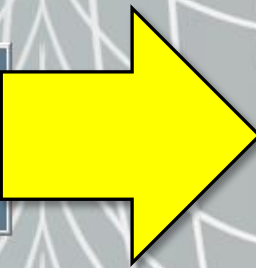
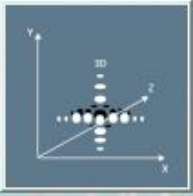
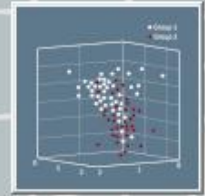
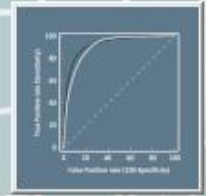
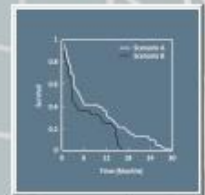
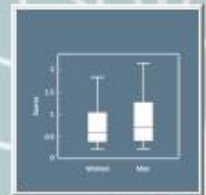


image1 image2 image3 cnew
video video

Image Inset

Input image

solid

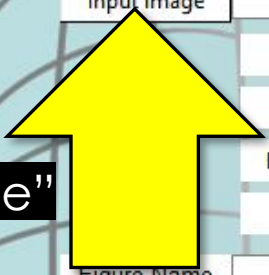
Line Color

Inset Location

Add Lines

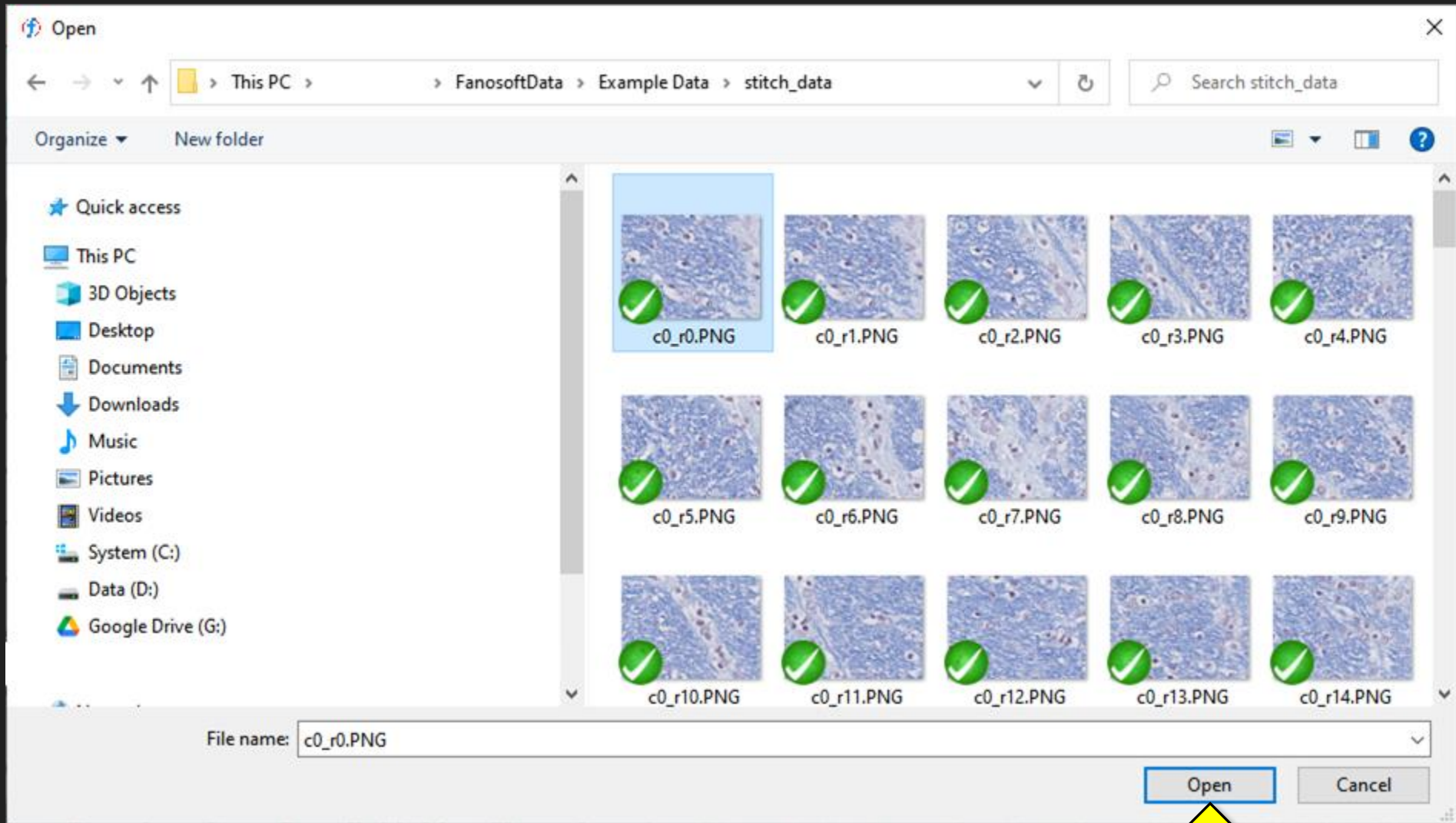
Figure Name

Click on "Input image"



SUBMIT

Preview



Select an image and click "Open"

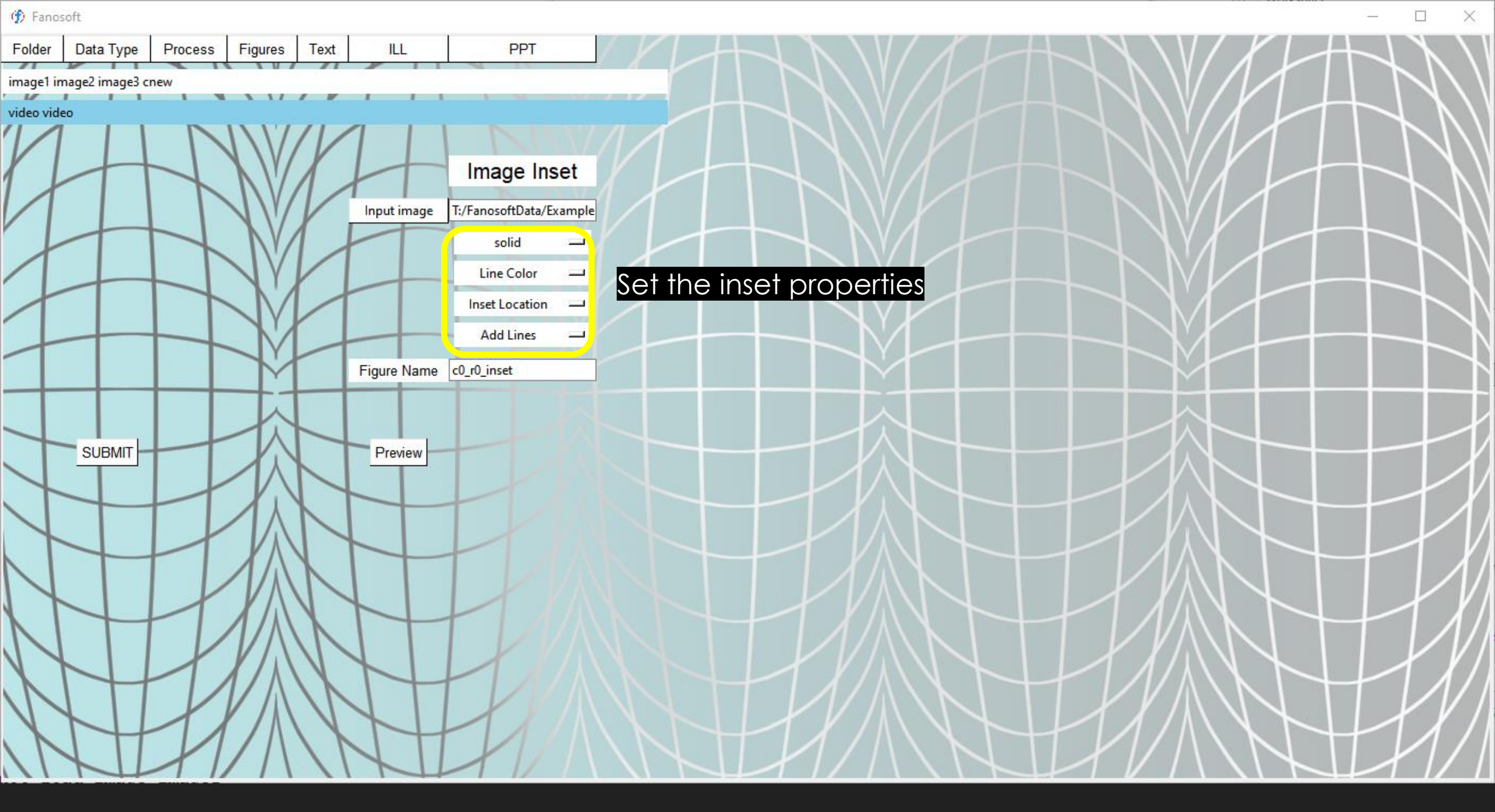


Image Inset

Input image T:/FanosoftData/Example

solid

Line Color

Inset Location

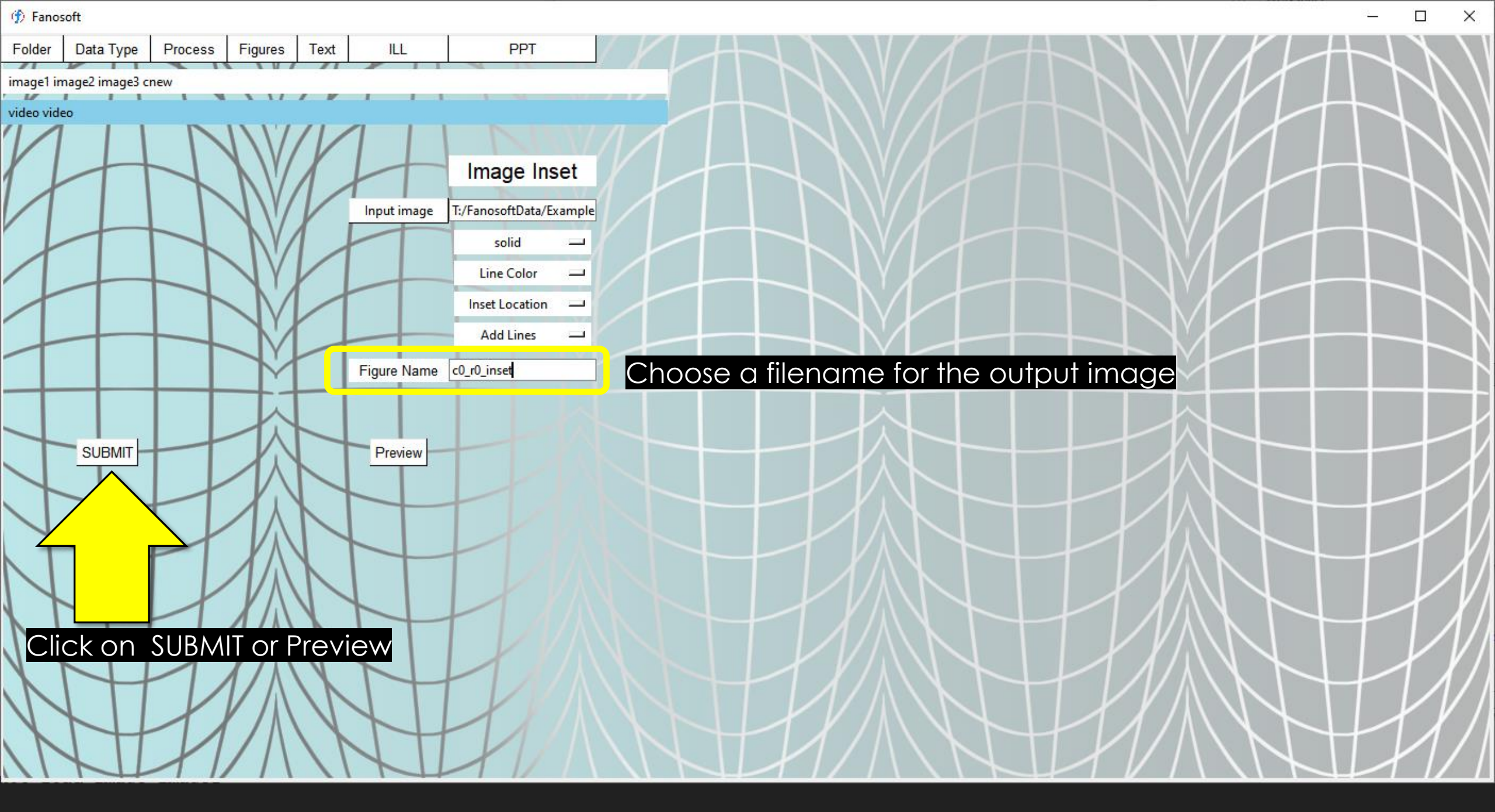
Add Lines

Figure Name c0_r0_inset

Set the inset properties

SUBMIT

Preview



- image1 image2 image3 cnew
- video video

Image Inset

Input image T:/FanosoftData/Example

solid

Line Color

Inset Location

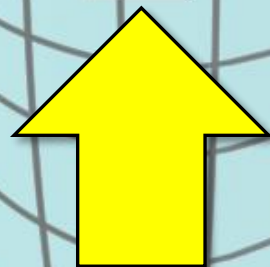
Add Lines

Figure Name c0_r0_inset

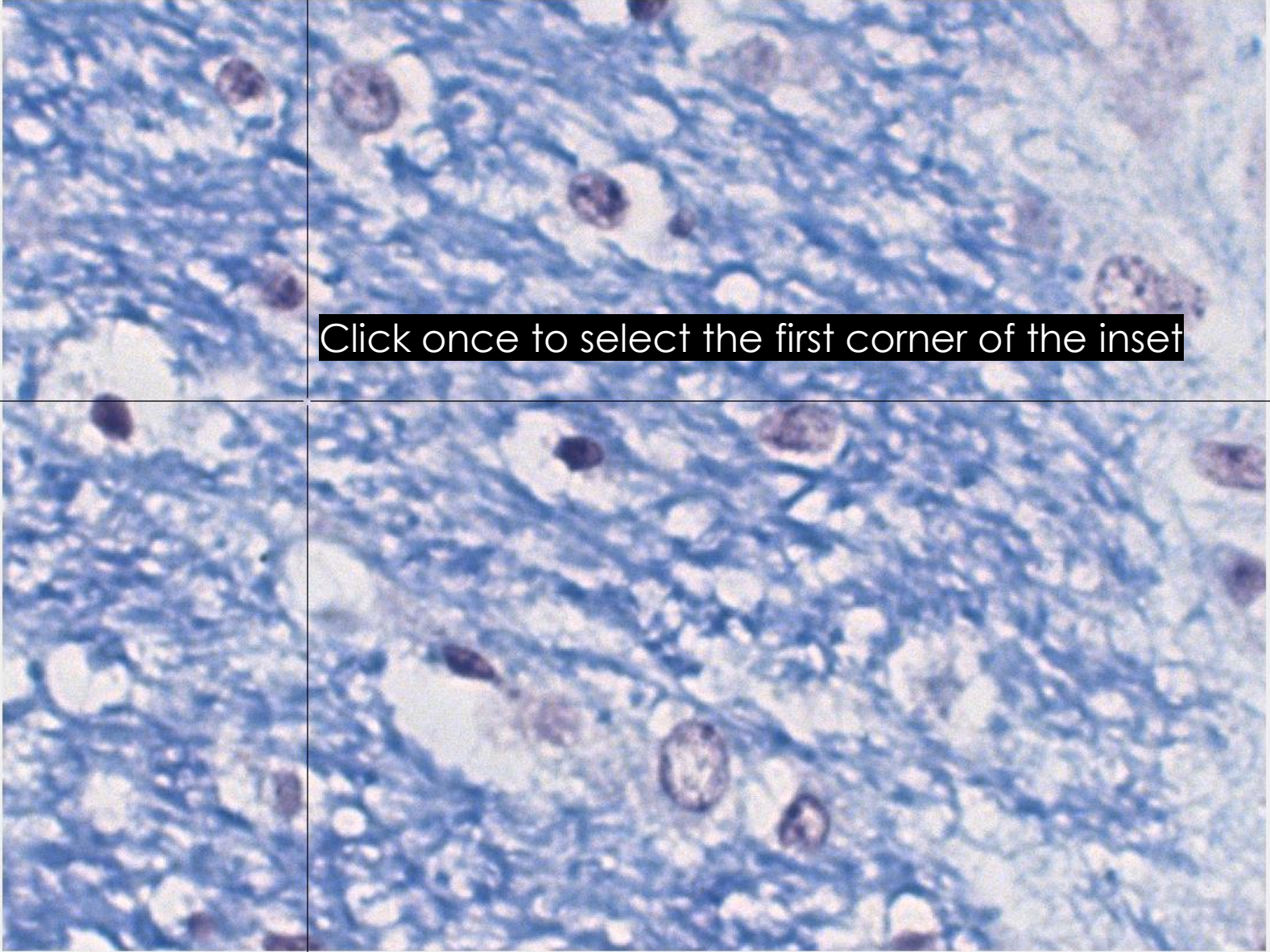
Choose a filename for the output image

SUBMIT

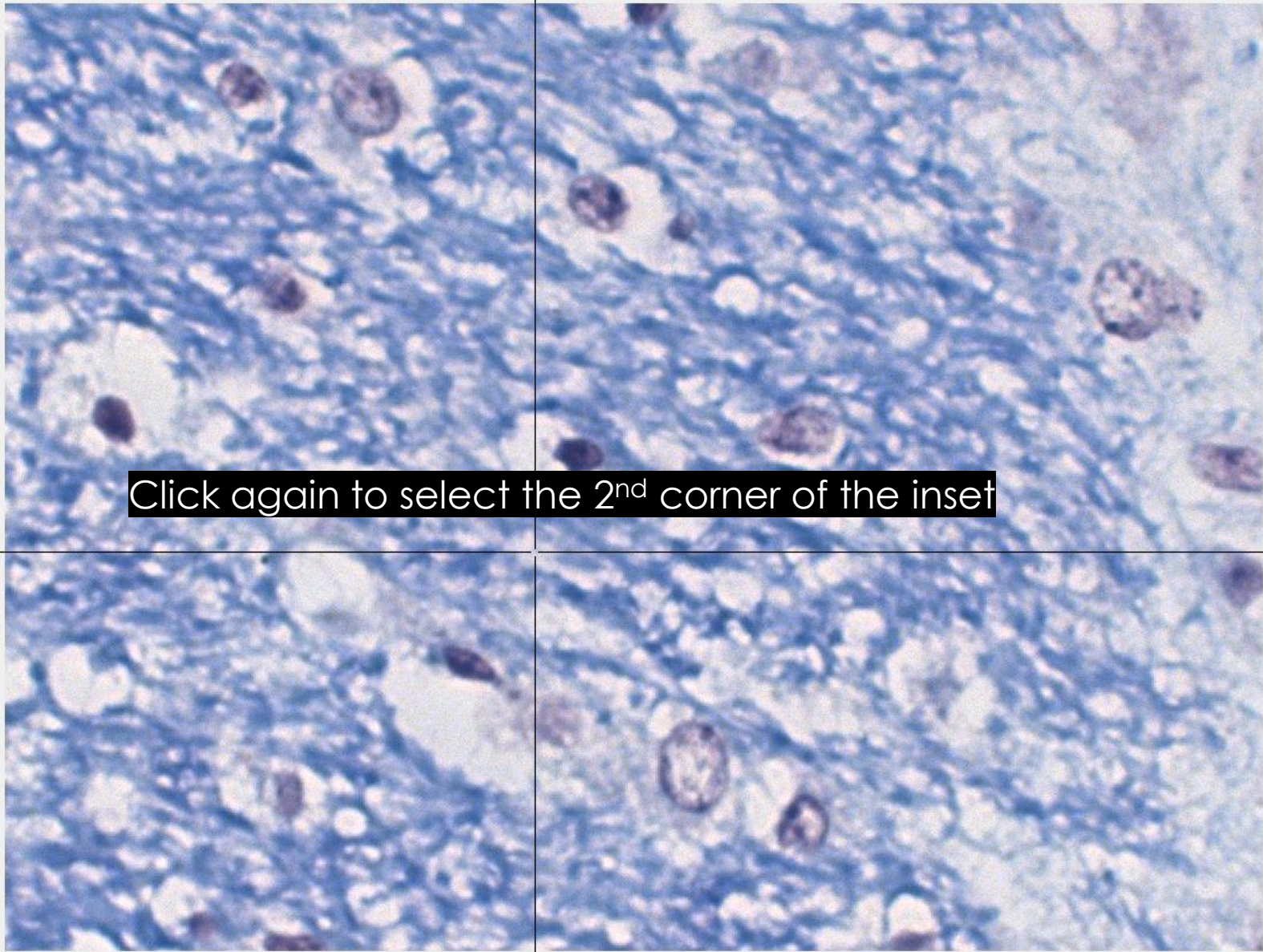
Preview



Click on SUBMIT or Preview



Click once to select the first corner of the inset



Click again to select the 2nd corner of the inset

Image Inset Output Example

