imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix Select Data ...

Name of Variable Matrix Select Variables ...

This tutorial contains navigation buttons that enable you to move throughout the tutorial.

Please use the navigation buttons and not the page up/page down or arrow keys to navigate through the tutorials.

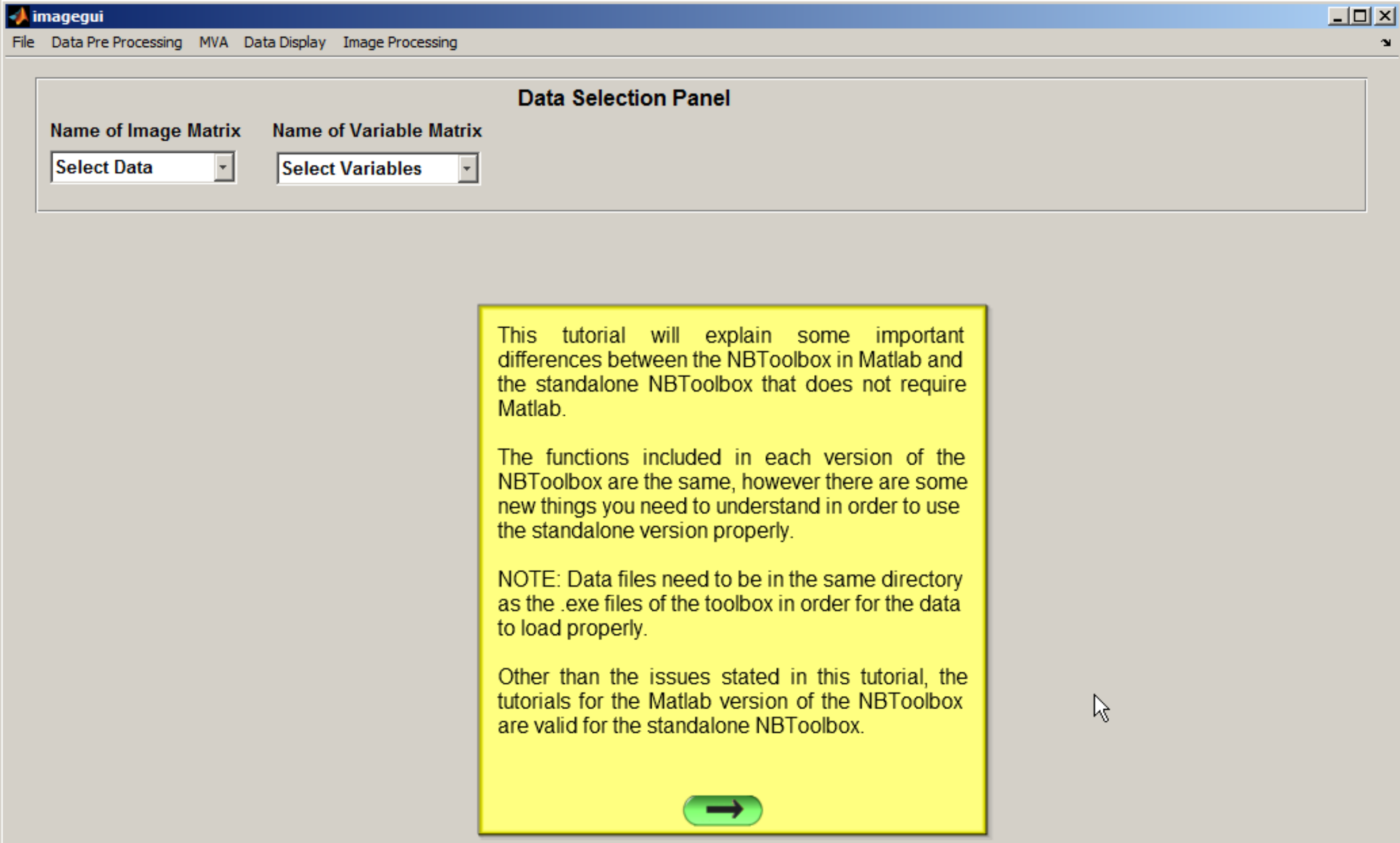
This is the 'Next' button. It takes you to the next frame or stop point.

This is the 'Previous' button. It takes you to the previous frame or stop point.

This is the 'Go to frame' button. It takes you to a specified frame.

This is the 'Go to URL' button. It takes you to a website link.

Press the 'Next' button below to start this tutorial.


imagegui
File
Data Pre Processing
MVA
Data Display
Image Processing
Data Selection Panel
Name of Image Matrix
Select Data
Name of Variable Matrix
Select Variables
This tutorial will explain some important differences between the NBToolbox in Matlab and the standalone NBToolbox that does not require Matlab.
The functions included in each version of the NBToolbox are the same, however there are some new things you need to understand in order to use the standalone version properly.
NOTE: Data files need to be in the same directory as the .exe files of the toolbox in order for the data to load properly.
Other than the issues stated in this tutorial, the tutorials for the Matlab version of the NBToolbox are valid for the standalone NBToolbox.

MATLAB R2011b

File Edit Debug Desktop Window Help

Current Folder: C:\Users\graham\Documents\MATLAB

Shortcuts How to Add What's New

Current Folder | Workspace

Stack: Base | Select data to plot

Name	Value
exactmass_PEGPS_07	<80x8 char>
headerinfo_PEGPS_07	<82x4 double>
imagedata_PEGPS_07	<65536x80 double>
sumofselected_PEGPS_07	<65536x1 double>
totalcounts_PEGPS_07	<65536x1 double>

Command Window

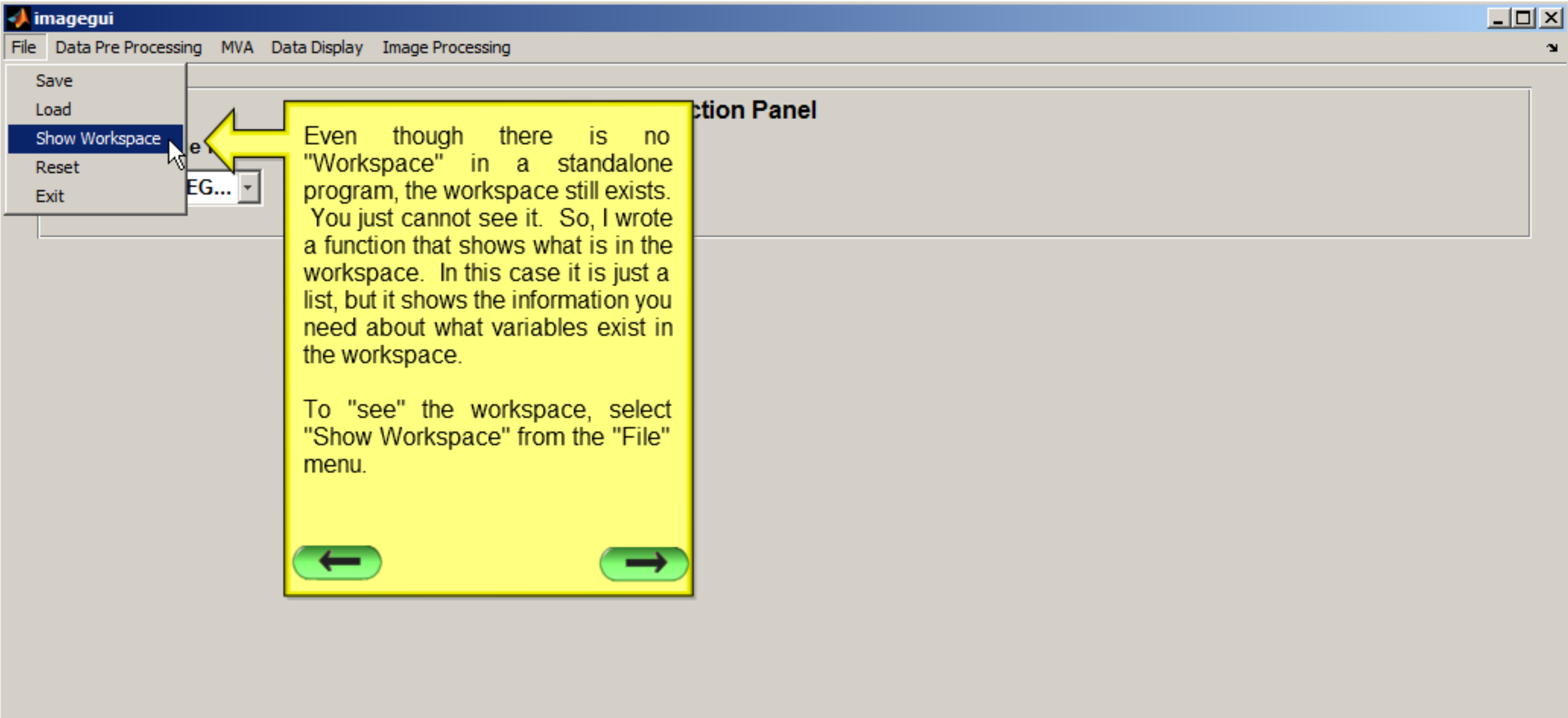
New to MATLAB? Watc

fx >>

One major difference between the standalone NBToolbox and the NBToolbox running in Matlab is that the standalone version doesn't have the Matlab command window and workspace.

This creates a few issues with how you can create new variables for labels and other places you would have to type at the Matlab command prompt.

However, I have implemented functions that get around these limitations.


imagegui
File
Data Pre Processing
MVA
Data Display
Image Processing
Save
Load
Show Workspace
Reset
Exit
ction Panel
EG...
Even though there is no "Workspace" in a standalone program, the workspace still exists. You just cannot see it. So, I wrote a function that shows what is in the workspace. In this case it is just a list, but it shows the information you need about what variables exist in the workspace.
To "see" the workspace, select "Show Workspace" from the "File" menu.

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix imagedata_PEG...

Name of Variable Matrix exactmass_PEGP...

workspacegui

Refresh

Variable name	Size	Type

The workspacegui window will appear. Press the 'Refresh' button to show the workspace variables.

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix imagedata_PEG...

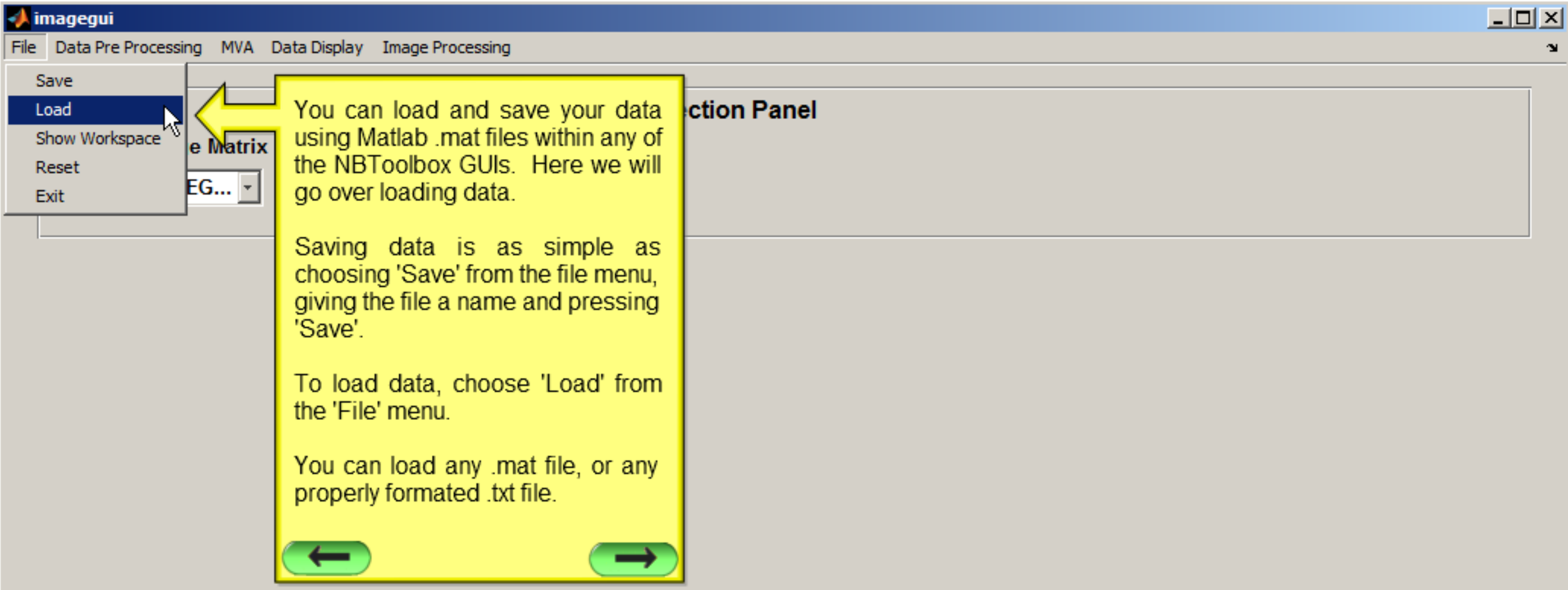
Name of Variable Matrix exactmass_PEGP...

workspacegui

Refresh

Variable name	Size	Type
exactmass_PEGPS_07	80x8	char
headerinfo_PEGPS_07	82x4	double
imagedata_PEGPS_07	65536x80	double
sumofselected_PEGPS...	65536x1	double
totalcounts_PEGPS_07	65536x1	double

All variables within the workspace are shown along with the typical information shown in Matlab.


imagegui
File
Data Pre Processing
MVA
Data Display
Image Processing
Save
Load
Show Workspace
Reset
Exit
ction Panel
e Matrix
EG...
You can load and save your data using Matlab .mat files within any of the NBToolbox GUIs. Here we will go over loading data.
Saving data is as simple as choosing 'Save' from the file menu, giving the file a name and pressing 'Save'.
To load data, choose 'Load' from the 'File' menu.
You can load any .mat file, or any properly formated .txt file.

imagegui

Pick a file

Look in: MATLAB

Recent Places
Desktop
Libraries
Computer
Network

Name	Date	Type	Size	Tags
NMSIMS_sampleA07_2013_10_11	10/14/2013 11:50 AM	Microsoft Access...	54 KB	
NMSIMS_2013_10_11	10/11/2013 11:24 AM	Microsoft Access...	13 KB	
C1018NegStandardDataLargePkSet	9/4/2013 4:52 PM	Microsoft Access...	270 KB	
fletcherMsMsData	8/12/2013 7:48 AM	Microsoft Access...	2,204 KB	
J105FlyData3x3	8/7/2013 9:04 AM	Microsoft Access...	188,676 KB	
J105_mousemuscle_04	8/5/2013 4:34 PM	Microsoft Access...	53,379 KB	
J105PorousScaffoldDP	8/5/2013 8:26 AM	Microsoft Access...	22,162 KB	
J105_07_17_13_Scaffold_07	8/1/2013 10:17 AM	Microsoft Access...	12,028 KB	
j105_07_16_13_scaffold_05	7/31/2013 1:08 PM	Microsoft Access...	48,165 KB	
J105_07_15_13_tripalmitin_18	7/31/2013 12:17 PM	Microsoft Access...	101,576 KB	
dataforimageguitutorialTEMP	7/12/2013 3:05 PM	Microsoft Access...	12,067 KB	
JasonWang_2013_06_Spot3	6/19/2013 2:40 PM	Microsoft Access...	3,740 KB	
JasonWang_2013_06_Spot2	6/19/2013 2:32 PM	Microsoft Access...	42,521 KB	
spectraforpeaksearchertest	6/3/2013 10:53 AM	Microsoft Access...	19,985 KB	
TestDataResolutionEnhancement	5/24/2013 9:34 AM	Microsoft Access...	8,074 KB	
JamesLai_FirstTest	5/14/2013 1:53 PM	Microsoft Access...	43,314 KB	
MFMDXHSR_2013_05	5/9/2013 9:16 AM	Microsoft Access...	6,864 KB	
JamesLai_P248BackgroundTest02	5/6/2013 3:20 PM	Microsoft Access...	19,432 KB	
JamesLai_P248BackgroundTest01	5/6/2013 2:34 PM	Microsoft Access...	21,172 KB	
nick_2012_10_18_slice2spot2_testusingHSRtotalcountsinHM...	4/10/2013 7:17 PM	Microsoft Access...	2,740 KB	
LOS3_Tile4_ProcessedUseThis	4/9/2013 10:18 AM	Microsoft Access...	77,519 KB	

File name: dataforimageguitutorialTEMP.mat

Files of type: MAT-files (*.mat)

Open

Cancel

First we will open a .mat file.

For this simply select any .mat file and press 'Open'.

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix imagedata_PEG...

Name of Variable Matrix exactmass_PEGP...

workspacegui

Refresh

Press the 'Refresh' button to show the workspace variables.

Variable name	Size	Ty
exactmass_PEGPS_07	80x8	char
headerinfo_PEGPS_07	82x4	double
imagedata_PEGPS_07	65536x80	double
sumofselected_PEGPS...	65536x1	double
totalcounts_PEGPS_07	65536x1	double

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix imagedata_PEG...

Name of Variable Matrix exactmass_PEGP...

workspacegui

Refresh

Variable name	Size	Type
Lines	65536x1	double
MAF_loads	20x4	double
MAF_scores	65536x4	double
MAF_var	4x1	double
PCA_loads	20x4	double
PCA_scores	65536x4	double
PCA_var	4x1	double
PeaksIncludedIn_Lines	5x7	char
PeaksIncludedIn_squares	2x7	char
PoissonScaledMC	65536x20	double
exactmass_DAN01	20x8	char
exactmass_PEGPS_07	80x8	char
headerinfo_PEGPS_07	82x4	double
imagedata_DAN01	65536x20	double
imagedata_PEGPS_07	65536x80	double
squares	65536x1	double
sumofselected_DAN01	65536x1	double
sumofselected_PEGPS_07	65536x1	double
totalcounts_DAN01	65536x1	double
totalcounts_PEGPS_07	65536x1	double

You can see that the variables from the opened file have been added to the workspace.

You can load them into the GUI you are using with the 'Import From Workspace' functions of the Imagegui or Spectragui.

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix: exactmass_PEGP...

Scores: Select Scores

Loadings: PCA_loads

Variance: PCA_var

Plot Loadings

Load Selected Data

Load Selected Data

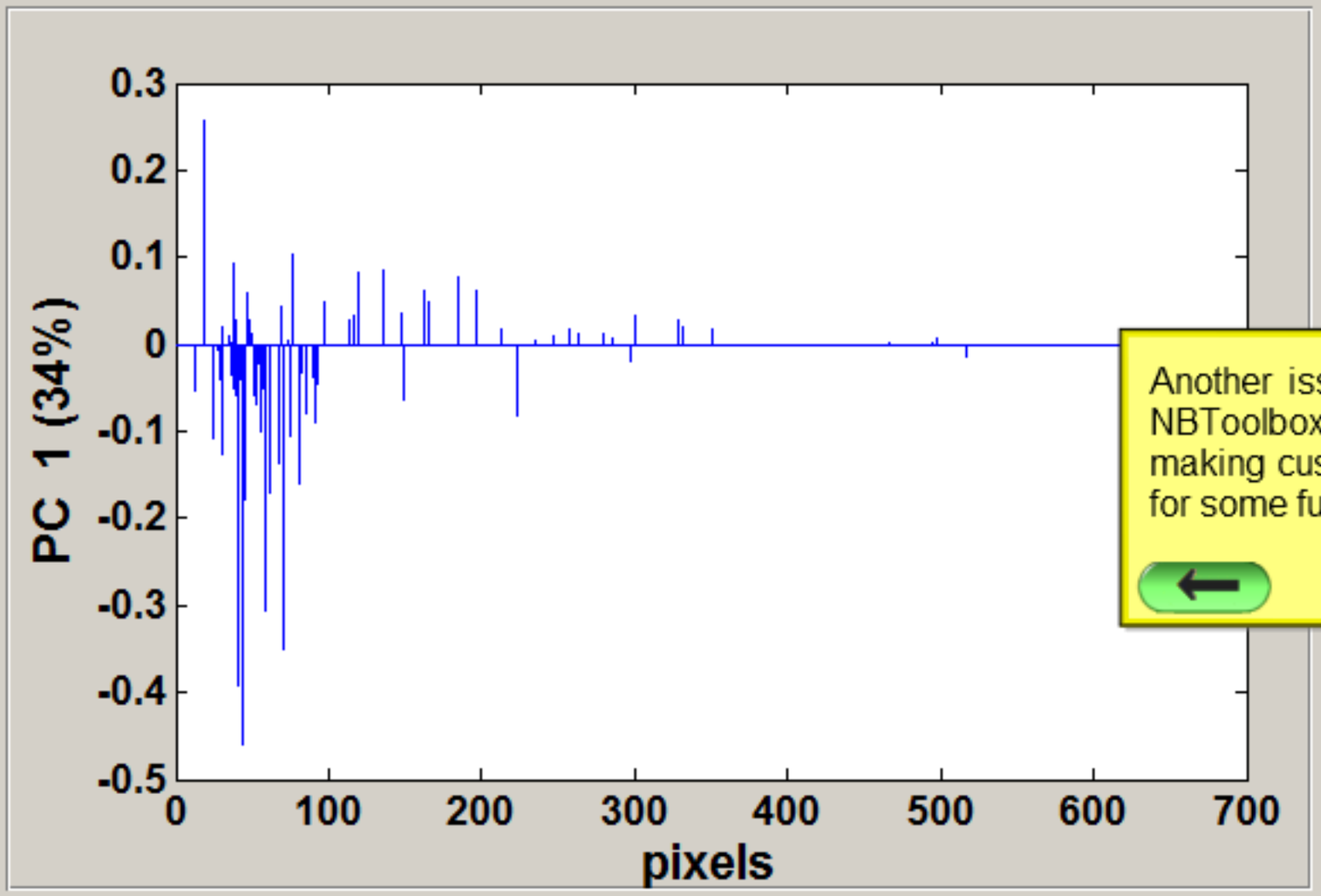
Loaded Data

Loadings: PCA_loads
Variables: exactmass_PEGPS_07
% Variance: PCA_var

PC# to plot: 1

Plot Options: Traditional

Plot Loads | Save Figure | Make Ext | Close Panel



Another issue with the standalone NBToolbox is how to deal with making custom labels or peak lists for some functions.

Label Loadings

Label all peaks above a threshold value.

Label Peaks Above

Label Threshold

Image size (microns):

Create Raw Data Plot For Labeled Peaks

Use custom labels for selected peaks.

Custom Labels to use

Label Custom

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix:

Scores: Select Scores

Loadings: PCA_loads

Variance: PCA_var

labelstest.txt - Notepad

File Edit Format View Help

```
this
is
a
test
```

For this you will need to use a text editor and create a .txt file that contains the labels or peak lists you want to import into the NBToolbox.

Remember that each label or peak mass must be on a separate row and that all text must contain the same number of characters. This means that you must use spaces to adjust the number of characters if some text is shorter than the rest.

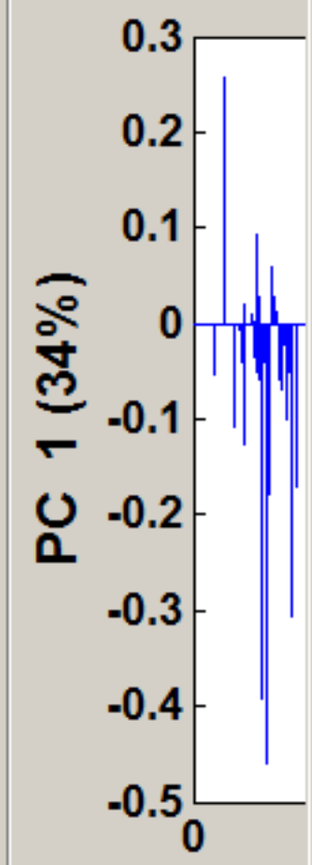
In this example I used spaces to make sure that each line of text is the same length.

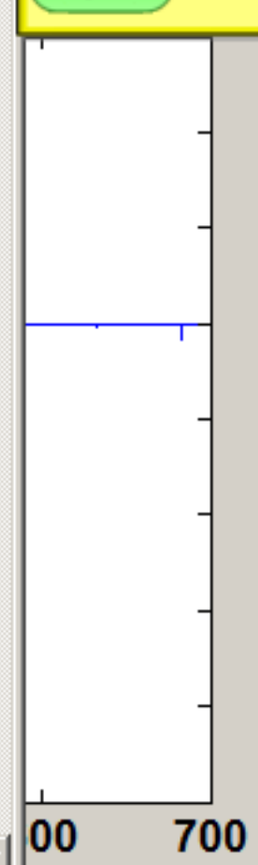
Load Select

Load Select

PC# to plot: 1

Plot Options: Traditional





el Loadings

above
alue.

s

Label Threshold

microns):

Create Raw Data Plot For Labeled Peaks

Use custom labels
for selected peaks.

Custom Labels
to use

Choose Peaks

Label Custom

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix:

Scores:

Loadings: loads

Variance: PCA_var

labelstest.txt - Notepad

File Edit Format View Help

this
is
a
test

Save this as a .txt file. The name you give to the file will become the name of the variable in the workspace that contains the labels/peaks/etc.

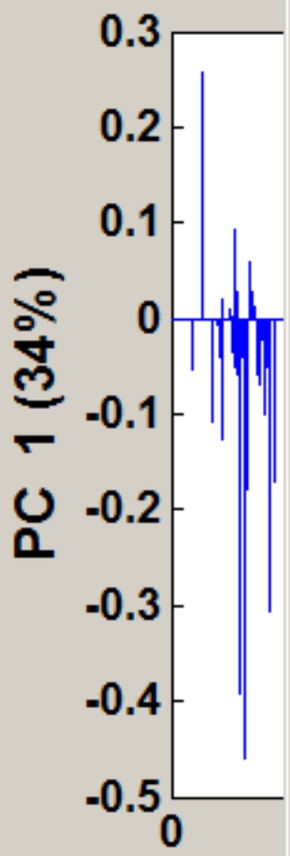
Load Select

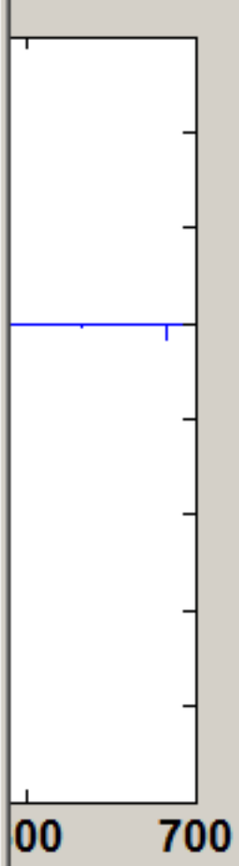
Load Select

PC# to plot: 1

Plot Options: Traditional

Panel





Label Loadings

Label all peaks above a threshold value.

Label Peaks Above

Label Threshold

Image size (microns):

Create Raw Data Plot For Labeled Peaks

Use custom labels for selected peaks.

Custom Labels to use

Choose Peaks

Label Custom

imagegui

File | Data Pre Processing | MVA | Data Display | Image Processing

- Save
- Load
- Show Workspace
- Reset
- Exit

To bring the data into the GUI, select 'Load' from the 'File' menu.

ection Panel

e Matrix

EG...

Scores	Loadings	Variance
Select Scores	PCA_loads	PCA_var

Plot Loadings

Load Selected Data

Load Selected Data

Loaded Data

Loadings:	PCA_loads
Variables:	exactmass_PEGPS_07
% Variance:	PCA_var

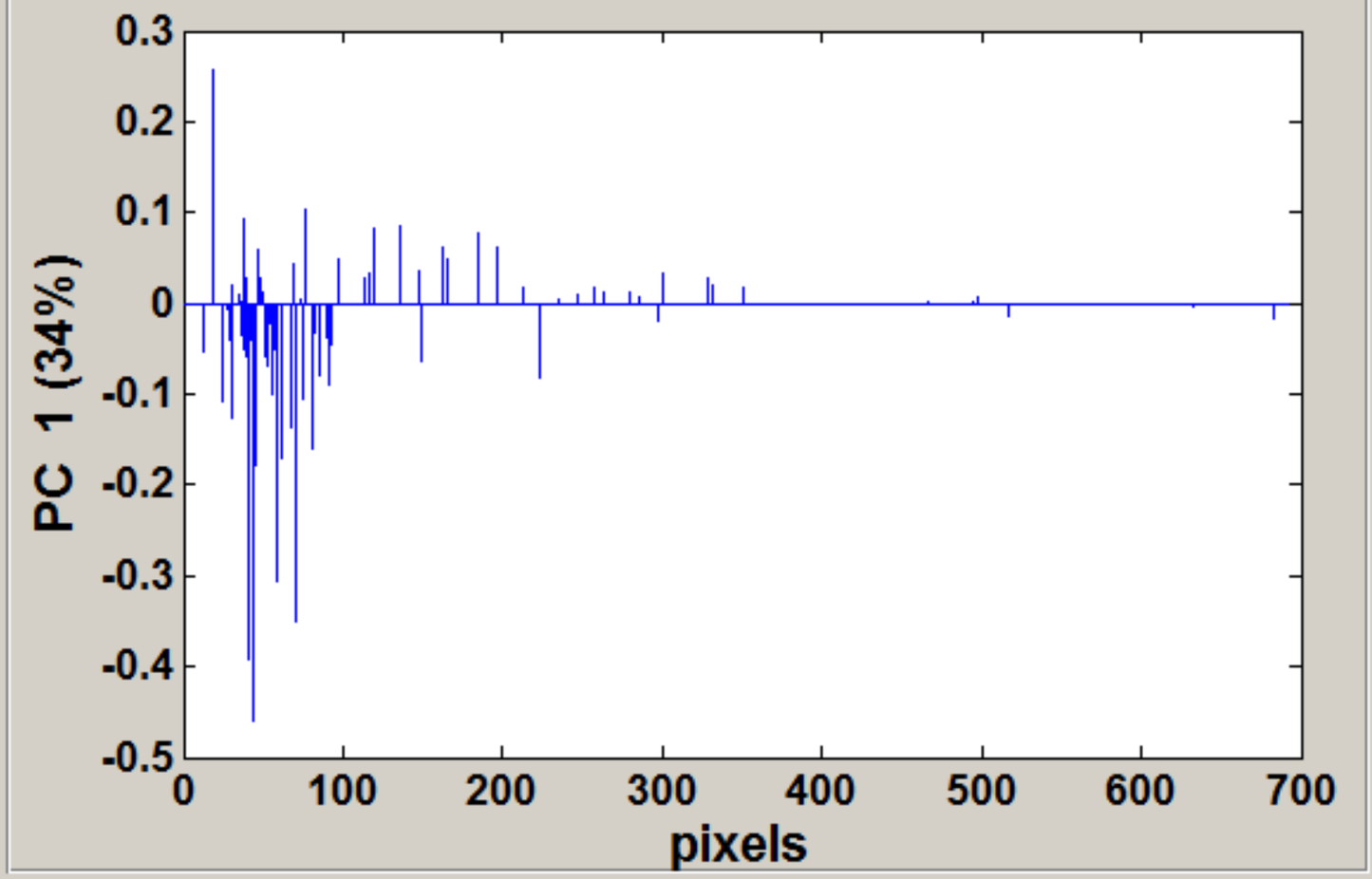
PC# to plot

1

Plot Options:

Traditional

Plot Loads | Save Figure | Make Ext | Close Panel



Label Loadings

Label all peaks above a threshold value.

Label Peaks Above

Label Threshold

Image size (microns):

Create Raw Data Plot For Labeled Peaks

Use custom labels for selected peaks.

Custom Labels to use

Choose Peaks

Label Custom

imagegui

Pick a file

Look in: MATLAB

Recent Places
Desktop
Libraries
Computer
Network

Name	Date	Type	Size	Tags
zcorrectorgui	9/6/2013 4:29 PM	File folder		
imagegui	8/23/2013 3:32 PM	File folder		
spectragui	8/23/2013 3:15 PM	File folder		
07_15_13 tripalmitin 18_IonoptikaIA2DspectrV2	7/31/2013 9:41 AM	File folder		
New folder	2/6/2013 10:05 AM	File folder		
slices	2/6/2013 9:57 AM	File folder		
Nick	2/6/2013 9:55 AM	File folder		
testing3dcoloredoverlay	10/21/2013 11:23 AM	Microsoft Access...	11,266 KB	
PHEMAPMMA_HSR_09	10/16/2013 9:30 AM	Microsoft Access...	10,436 KB	
PHEMAPMMA_HSR_07	10/16/2013 9:29 AM	Microsoft Access...	9,755 KB	
PHEMAPMMA_HSR_06	10/16/2013 9:28 AM	Microsoft Access...	20,363 KB	
NMSIMS_sampleB07_2013_10_11	10/14/2013 12:10 PM	Microsoft Access...	50 KB	
NMSIMS_sampleA07_2013_10_11	10/14/2013 11:50 AM	Microsoft Access...	54 KB	
NMSIMS_2013_10_11	10/11/2013 11:24 AM	Microsoft Access...	13 KB	
C1018NegStandardDataLargePkSet	9/4/2013 4:52 PM	Microsoft Access...	270 KB	
fletcherMsMsData	8/12/2013 7:48 AM	Microsoft Access...	2,204 KB	
J105FlyData3x3	8/7/2013 9:04 AM	Microsoft Access...	188,676 KB	
J105_mousemuscle_04	8/5/2013 4:34 PM	Microsoft Access...	53,379 KB	
J105PorousScaffoldDP	8/5/2013 8:26 AM	Microsoft Access...	22,162 KB	
J105_07_17_13_Scaffold_07	8/1/2013 10:17 AM	Microsoft Access...	12,028 KB	
j105_07_16_13_scaffold_05	7/31/2013 1:08 PM	Microsoft Access...	48,165 KB	

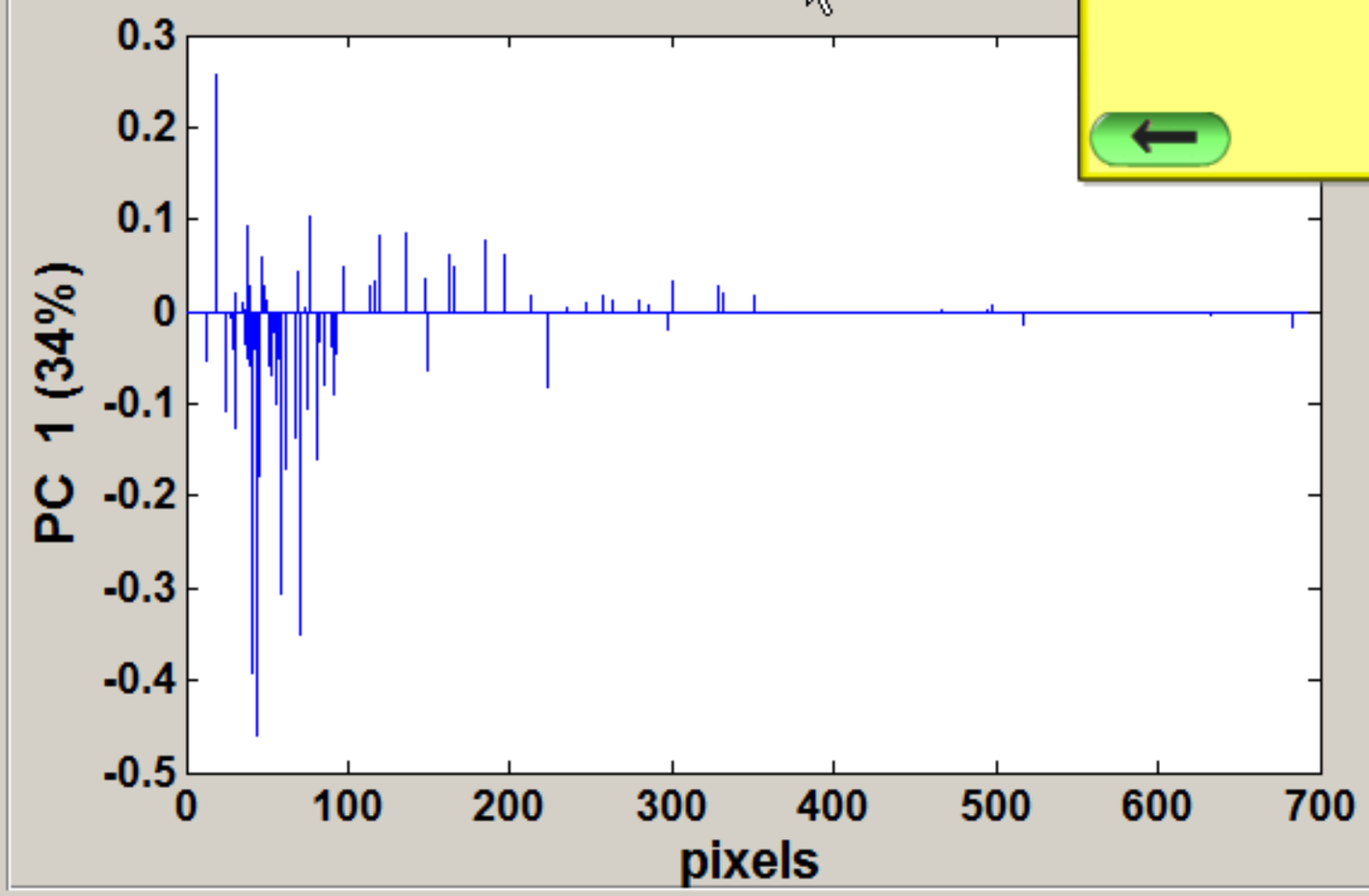
File name:

Files of type: MAT-files (*.mat)

MAT-files (*.mat)
TXT-files (*.txt)

Open
Cancel

Change the 'Files of type' drop down menu to be 'TXT-files (*.txt)'



Data Plot For Labeled Peaks

Use custom labels for selected peaks.

Custom Labels to use

Choose Peaks

Label Custom

imagegui

Pick a file

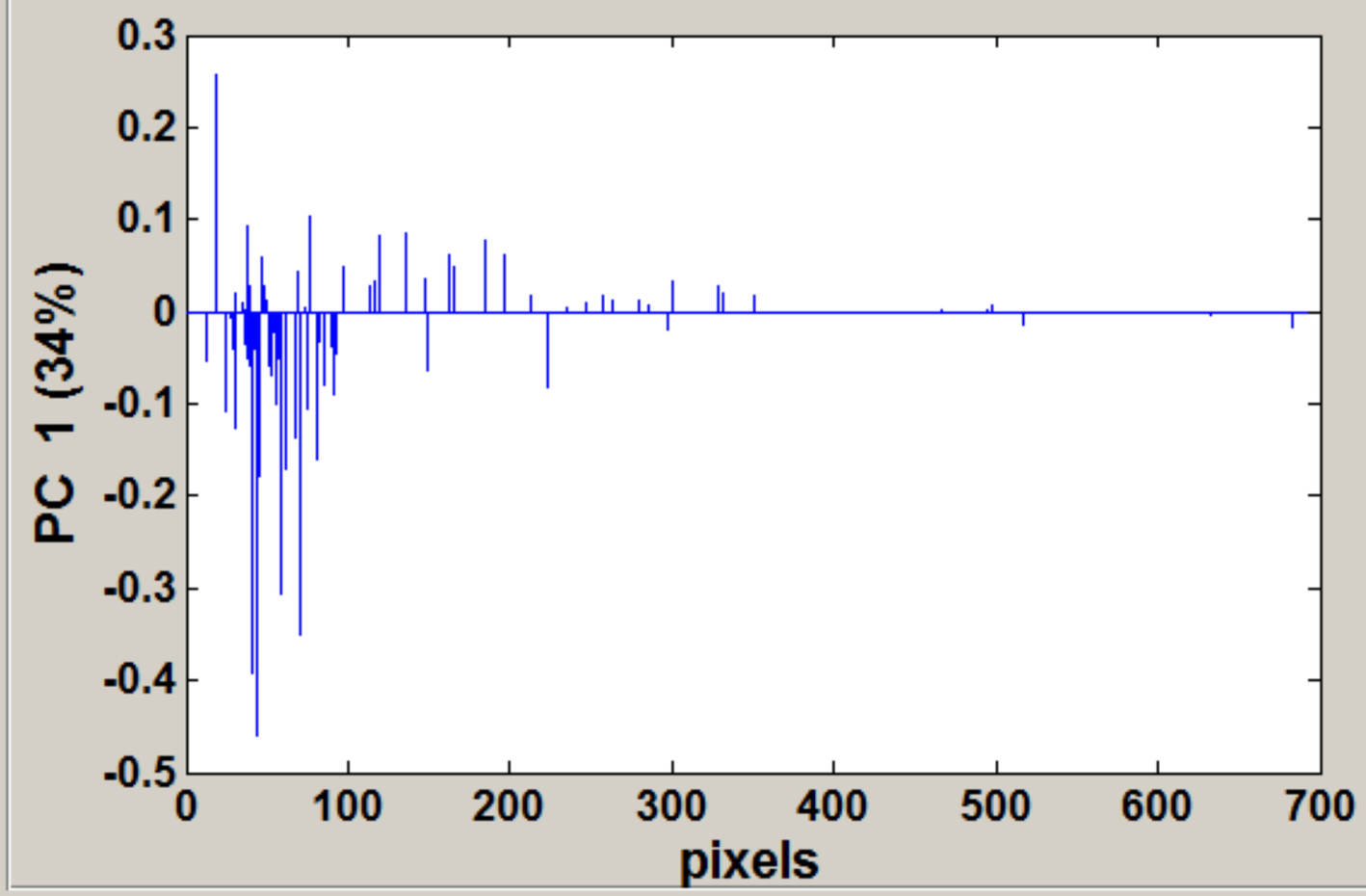
Look in: MATLAB

Name	Date	Type	Size	Tags
zcorrectorgui	9/6/2013 4:29 PM	File folder		
imagegui	8/23/2013 3:32 PM	File folder		
spectragui	8/23/2013 3:15 PM	File folder		
07_15_13 tripalmitin 18_IonoptikaIA2DspectrV2	7/31/2013 9:41 AM	File folder		
New folder	2/6/2013 10:05 AM	File folder		
slices	2/6/2013 9:57 AM	File folder		
Nick		File folder		
labelstest.txt		Text Document	1 KB	
peakratiodata.t		Text Document	1 KB	
templabels.txt		Text Document	1 KB	
correlationsummary.txt		Text Document	16 KB	
myfiguredata.txt		Text Document	2 KB	
testasciitext.txt		Text Document	3 KB	
tiledatatable.txt	7/12/2013 3:58 PM	Text Document	39 KB	
default.txt	6/14/2013 1:31 PM	Text Document	1 KB	
ROIareatable_LOS3tile4.txt	4/9/2013 10:13 AM	Text Document	6 KB	
slice2spot2test.txt	4/5/2013 2:49 PM	Text Document	7 KB	
ROIareatable_fromPCAScores.txt	4/3/2013 3:30 PM	Text Document	8 KB	
test_spot1_pos_NoSilicon.txt	3/11/2013 2:41 PM	Text Document	123 KB	
cottonnegatif2.txt	3/4/2013 8:57 AM	Text Document	3 KB	
MDXWTposALL.txt	2/12/2013 3:11 PM	Text Document	949 KB	

Recent Places
Desktop
Libraries
Computer
Network

Select your text file.

File name: labelstest.txt
Files of type: TXT-files (*.txt)
Open
Cancel



Create Raw Data Plot For Labeled Peaks

Use custom labels
for selected peaks.

Custom Labels
to use

Choose Peaks

Label Custom

imagegui

Pick a file

Look in: MATLAB

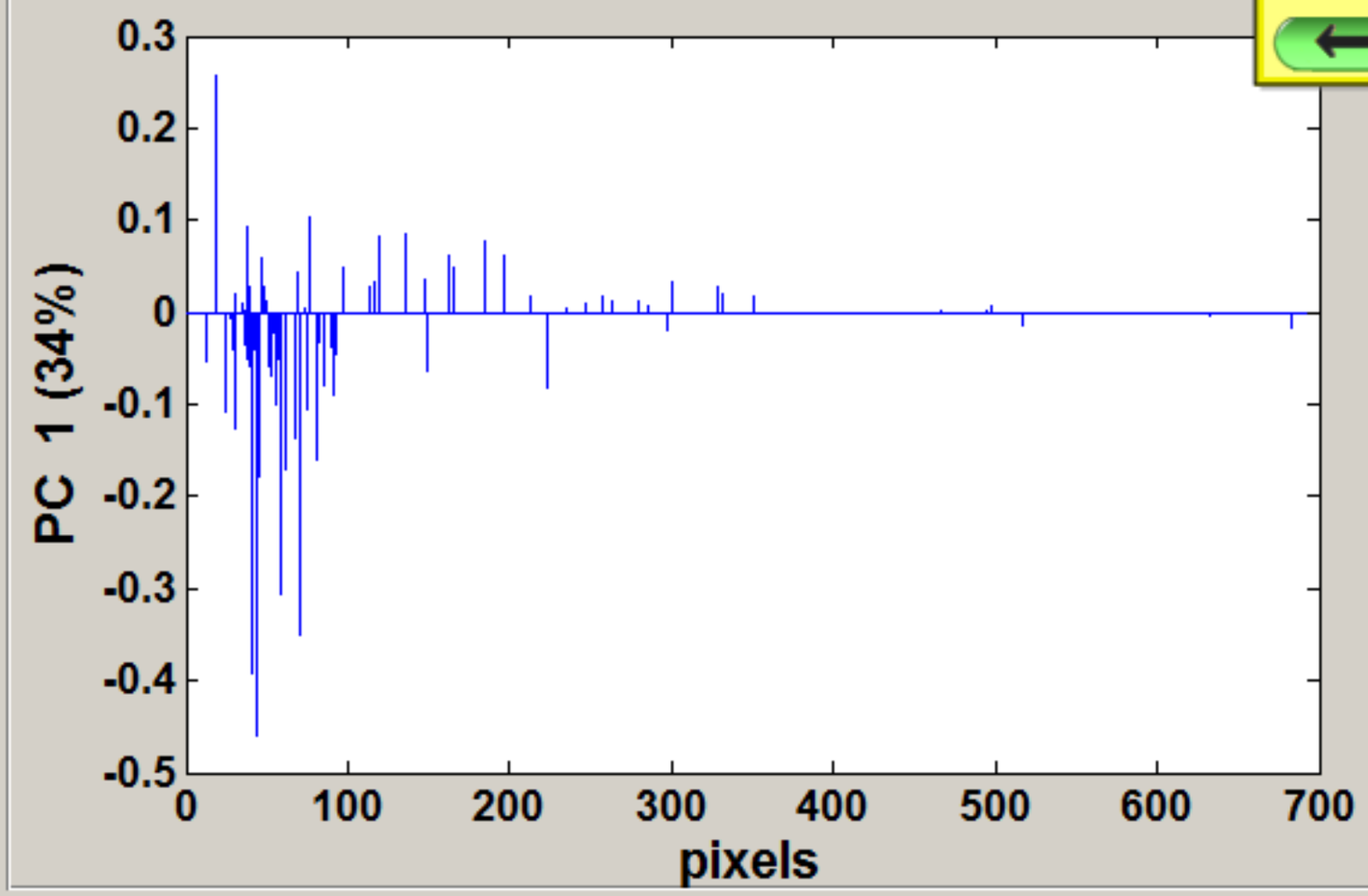
Name	Date	Type	Size	Tags
zcorrectorgui	9/6/2013 4:29 PM	File folder		
imagegui	8/23/2013 3:32 PM	File folder		
spectragui	8/23/2013 3:15 PM	File folder		
07_15_13 tripalmitin 18_IonoptikaIA2DspectrV2	7/31/2013 9:41 AM	File folder		
New folder	2/6/2013 10:05 AM	File folder		
slices	2/6/2013 9:57 AM	File folder		
Nick	2/6/2013 9:55 AM	File folder		
labelstest.txt	10/21/2013 1:02 PM	Text Document	1 KB	
peakratiodata.txt	10/11/2013 2:55 PM	Text Document	1 KB	
templabels.txt	10/11/2013 2:44 PM	Text Document	1 KB	
correlationsummary.txt	10/11/2013 12:46 PM	Text Document	16 KB	
myfiguredata.txt	10/9/2013 11:05 AM	Text Document	2 KB	
testasciitext.txt	10/8/2013 10:26 AM	Text Document	3 KB	
tiledatatable.txt	7/12/2013 3:58 PM	Text Document	39 KB	
default.txt	6/14/2013 1:31 PM	Text Document	1 KB	
ROIareatable_LOS3tile4.txt	4/9/2013 10:13 AM	Text Document	6 KB	
slice2spot2test.txt	4/5/2013 2:49 PM	Text Document	7 KB	
ROIareatable_fromPCAScores.txt	4/3/2013 3:30 PM	Text Document	8 KB	
test_spot1_pos_NoSilicon.txt	3/11/2013 2:41 PM	Text Document	123 KB	
cottonnegatif2.txt	3/4/2013 8:57 AM	Text Document	3 KB	
MDXWTposALL.txt	2/12/2013 3:11 PM	Text Document	949 KB	

Recent Places
Desktop
Libraries
Computer
Network

File name: labelstest.txt
Files of type: TXT-files (*.txt)

Open
Cancel

And press the 'Open' button.



For Labeled Peaks

Use custom labels
for selected peaks.

Custom Labels
to use

Choose Peaks

Label Custom

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix: exactmass_PEGP...

Scores: Select Scores

Loadings: PCA_loads

Variance: PCA_var

workspacegui

Press the 'Refresh' button to refresh the variable list.

Refresh

Variable name	Size	Type
	65536x1	double
ls	20x4	double
res	65536x4	double
MAF_var	4x1	double
PCA_loads	20x4	double
PCA_scores	65536x4	double
PCA_var	4x1	double
PeaksIncludedIn_Lines	5x7	char
PeaksIncludedIn_squares	2x7	char
PoissonScaledMC	65536x20	double
exactmass_DAN01	20x8	char
exactmass_PEGPS_07	80x8	char
headerinfo_PEGPS_07	82x4	double
imagedata_DAN01	65536x20	double
imagedata_PEGPS_07	65536x80	double
squares	65536x1	double
sumofselected_DAN01	65536x1	double
sumofselected_PEGPS_07	65536x1	double
totalcounts_DAN01	65536x1	double
totalcounts_PEGPS_07	65536x1	double

Plot

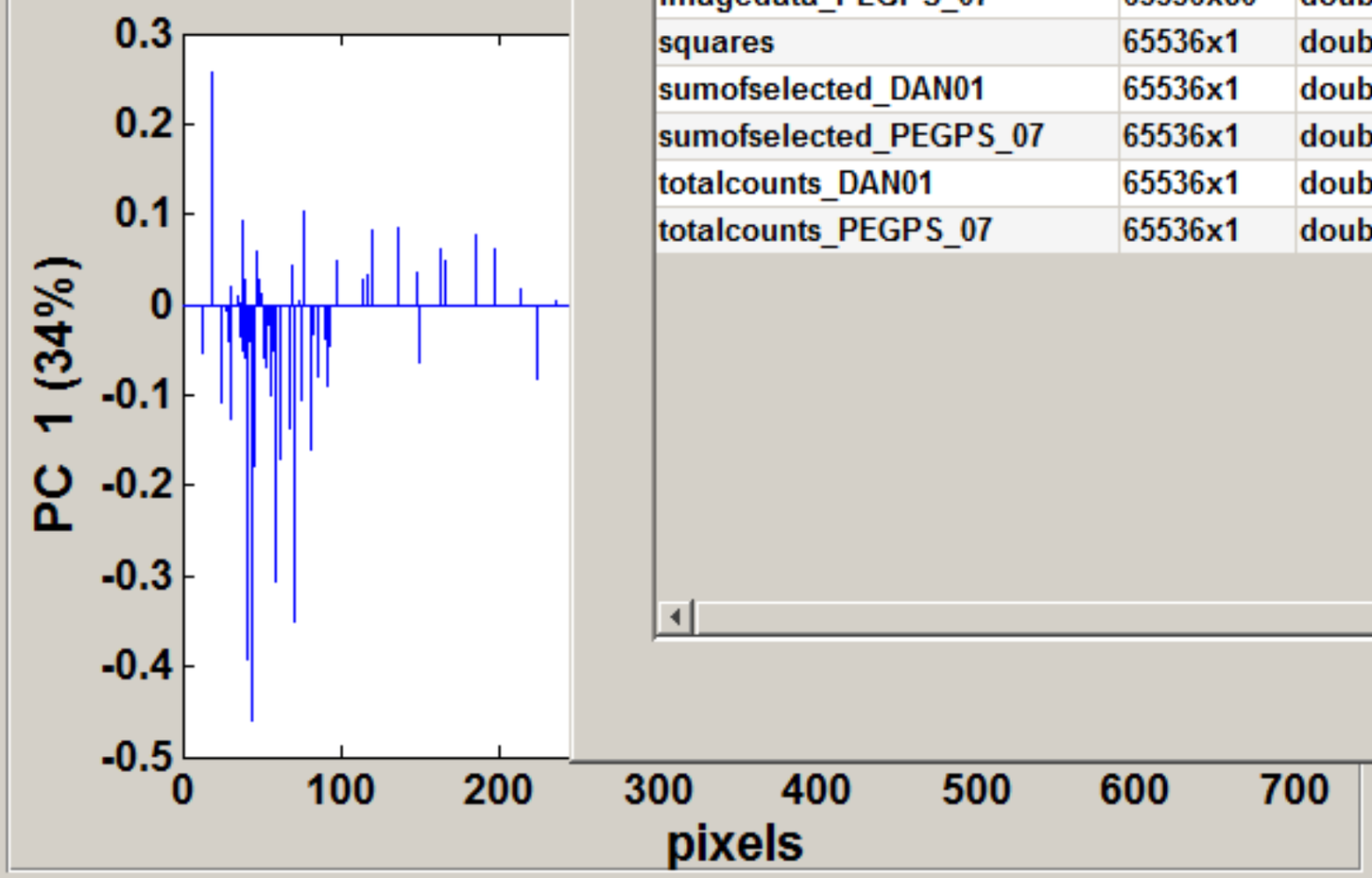
Load Selected Data

Load Selected Data

PC# to plot: 1

Plot Options: Traditional

Plot Loads



Label Loadings

l all peaks above
hreshold value.

Label Peaks Above

Label Threshold

Image size (microns):

eate Raw Data Plot For Labeled Peaks

Use custom labels for selected peaks.

Custom Labels to use

Choose Peaks

Label Custom

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix: exactmass_PEGP...

Scores: Select Scores

Loadings: PCA_loads

Variance: PCA_var

workspacegui

Refresh

Variable name	Size	Type
Lines	65536x1	double
MAF_loads	20x4	double
MAF_scores	65536x4	double
MAF_var	4x1	double
PCA_loads	80x4	double
PCA_scores	65536x4	double
PCA_var	4x1	double
PeaksIncludedIn_Lines	5x7	char
PeaksIncludedIn_squares	2x7	char
PoissonScaledMC	65536x20	double
SquareRootMC	65536x80	double
exactmass_DAN01	20x8	char
exactmass_PEGPS_07	80x8	char
headerinfo_PEGPS_07	82x4	double
imagedata_DAN01	65536x20	double
imagedata_PEGPS_07	65536x80	double
labelstest	4x4	char
squares	65536x1	double
sumofselected_DAN01	65536x1	double
sumofselected_PEGPS_07	65536x1	double
totalcounts_DAN01	65536x1	double
totalcounts_PEGPS_07	65536x1	double

And you can see the file had been loaded and saved as a new variable using the name of the file.

Plot

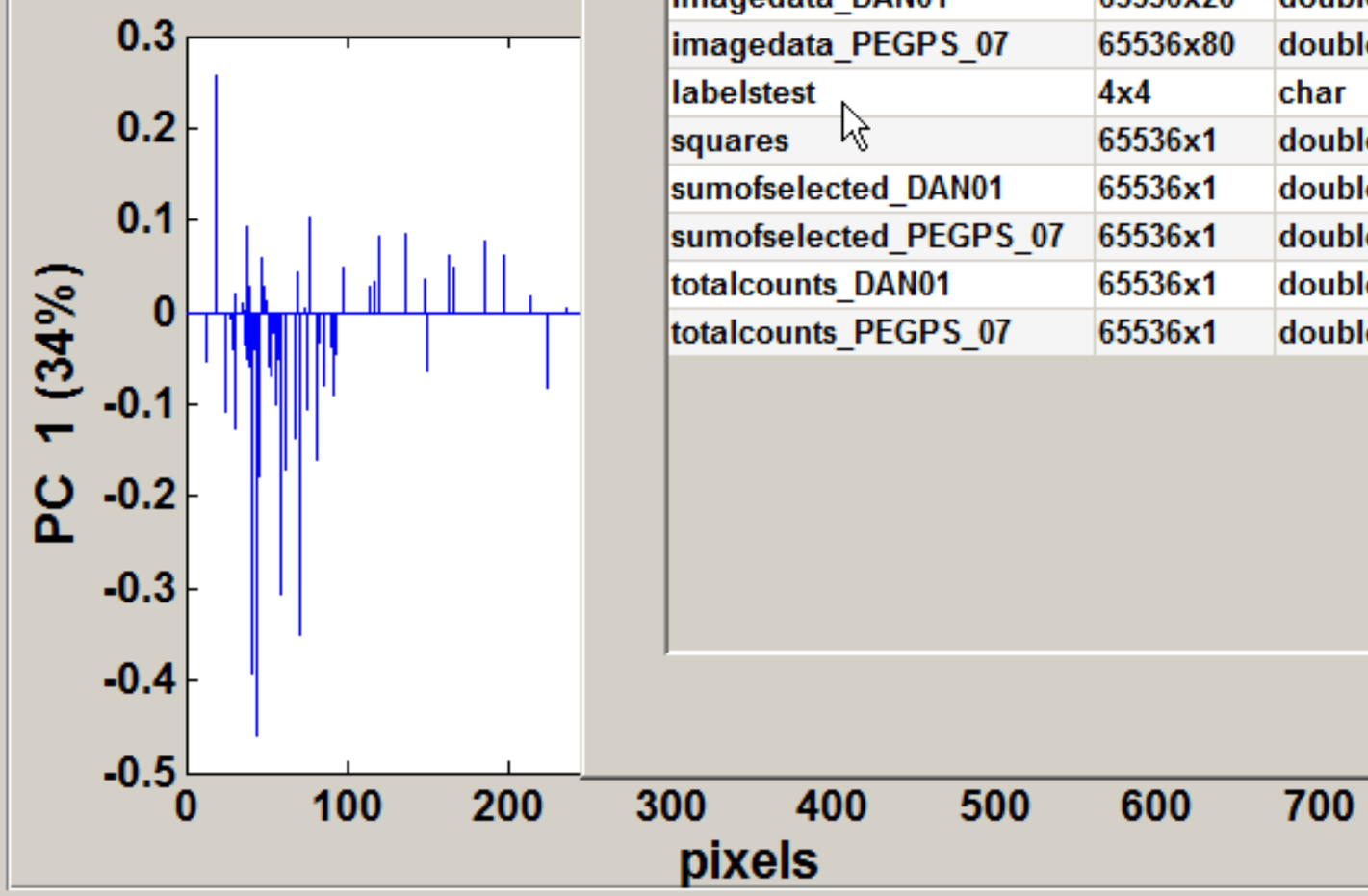
Load Selected Data

Load Selected Data

PC# to plot: 1

Plot Options: Traditional

Plot Loads



Label Loadings

l all peaks above
hreshold value.

Label Peaks Above

Label Threshold

Image size (microns):

ks

bels to use

Choose Peaks

Label Custom

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix: exactmass_PEGP...

Scores: Select Scores

Loadings: PCA_loads

Variance: PCA_var

Plot Loadings

Load Selected Data

Load Selected Data

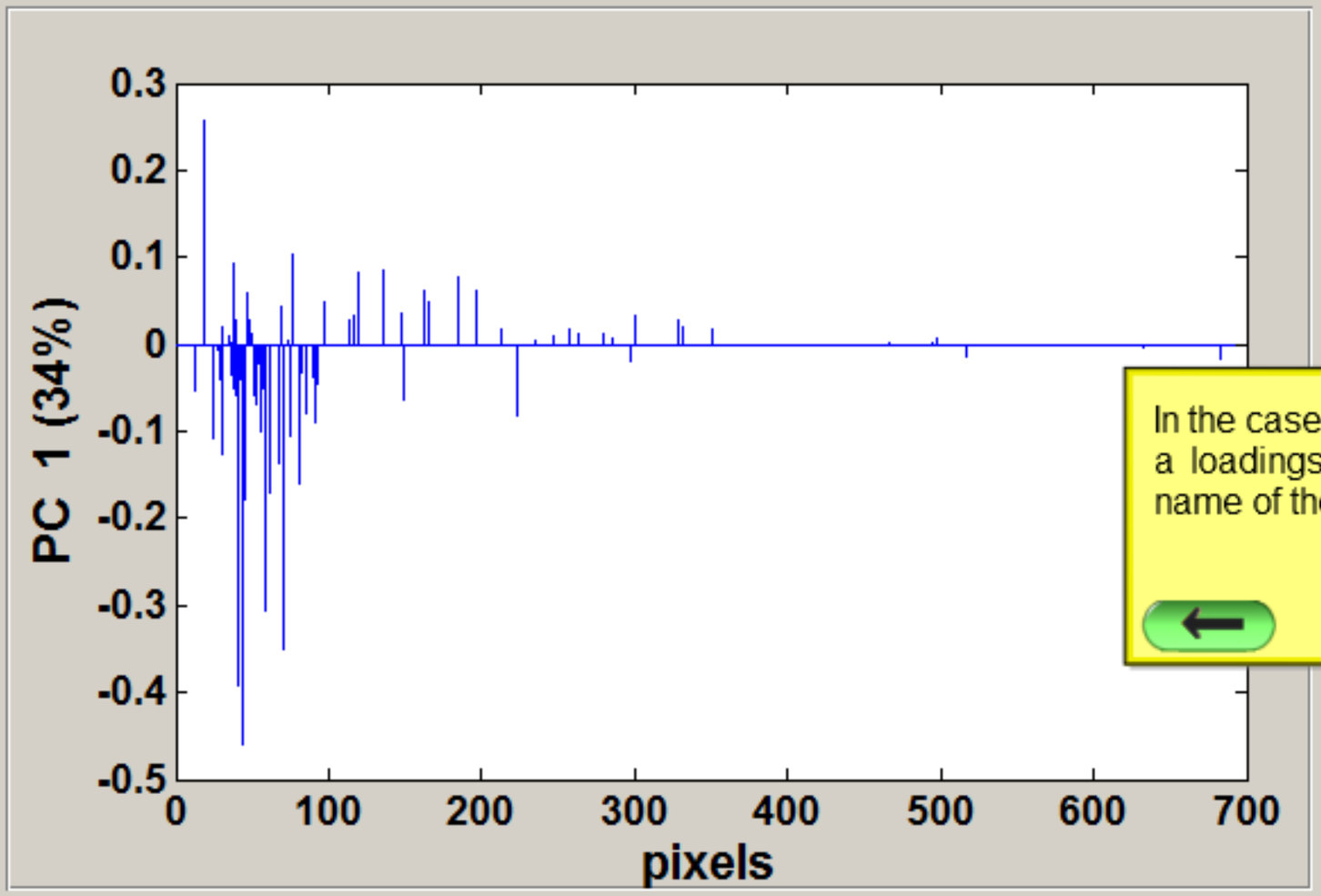
Loaded Data

Loadings: PCA_loads
Variables: exactmass_PEGPS_07
% Variance: PCA_var

PC# to plot: 1

Plot Options: Traditional

Plot Loads | Save Figure | Make Ext | Close Panel



Label Loadings

Label all peaks above a threshold value.

Label Peaks Above

Label Threshold

Image size (microns):

Create Raw Data Plot For Labeled Peaks

Use custom labels for selected peaks.

Custom Labels to use: labelstest

Name of varia

Label Custom

In the case of the custom labels for a loadings plot, we can enter the name of the variable here.

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix: exactmass_PEGP...

Scores: Select Scores

Loadings: PCA_loads

Variance: PCA_var

Plot Loadings

Load Selected Data

Load Selected Data

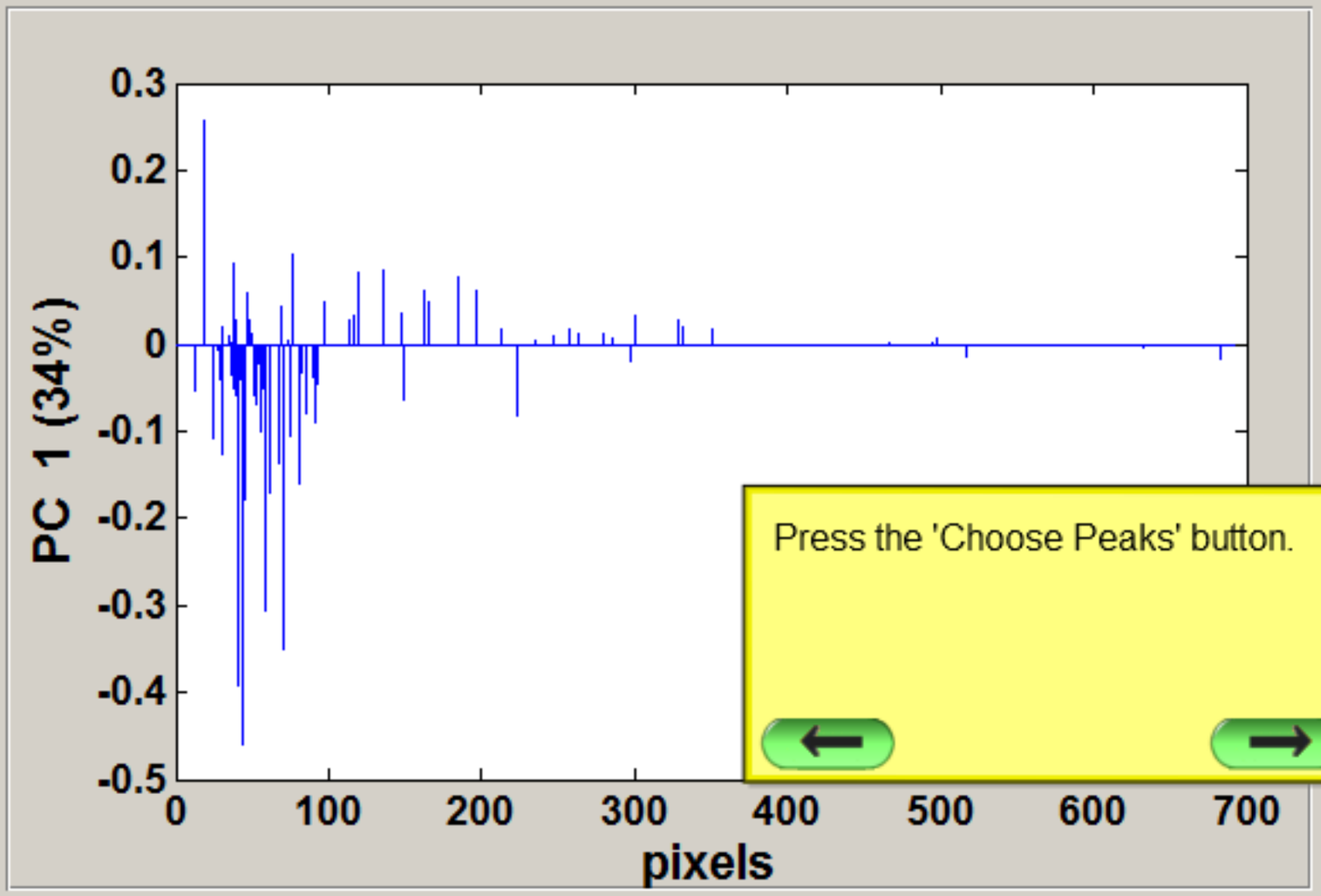
Loaded Data

Loadings: PCA_loads
Variables: exactmass_PEGPS_07
% Variance: PCA_var

PC# to plot: 1

Plot Options: Traditional

Plot Loads | Save Figure | Make Ext | Close Panel



Press the 'Choose Peaks' button.

Label Loadings

Label all peaks above a threshold value.

Label Peaks Above

Label Threshold

Image size (microns):

Create Raw Data Plot For Labeled Peaks

Use custom labels for selected peaks.

Custom Labels to use: labelstest

Choose Peaks

Label Custom

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix: exactmass_PEGP...

Scores: Select Scores

Loadings: PCA_loads

Variance: PCA_var

Plot Loadings

Load Selected Data

Load Selected Data

Loaded Data

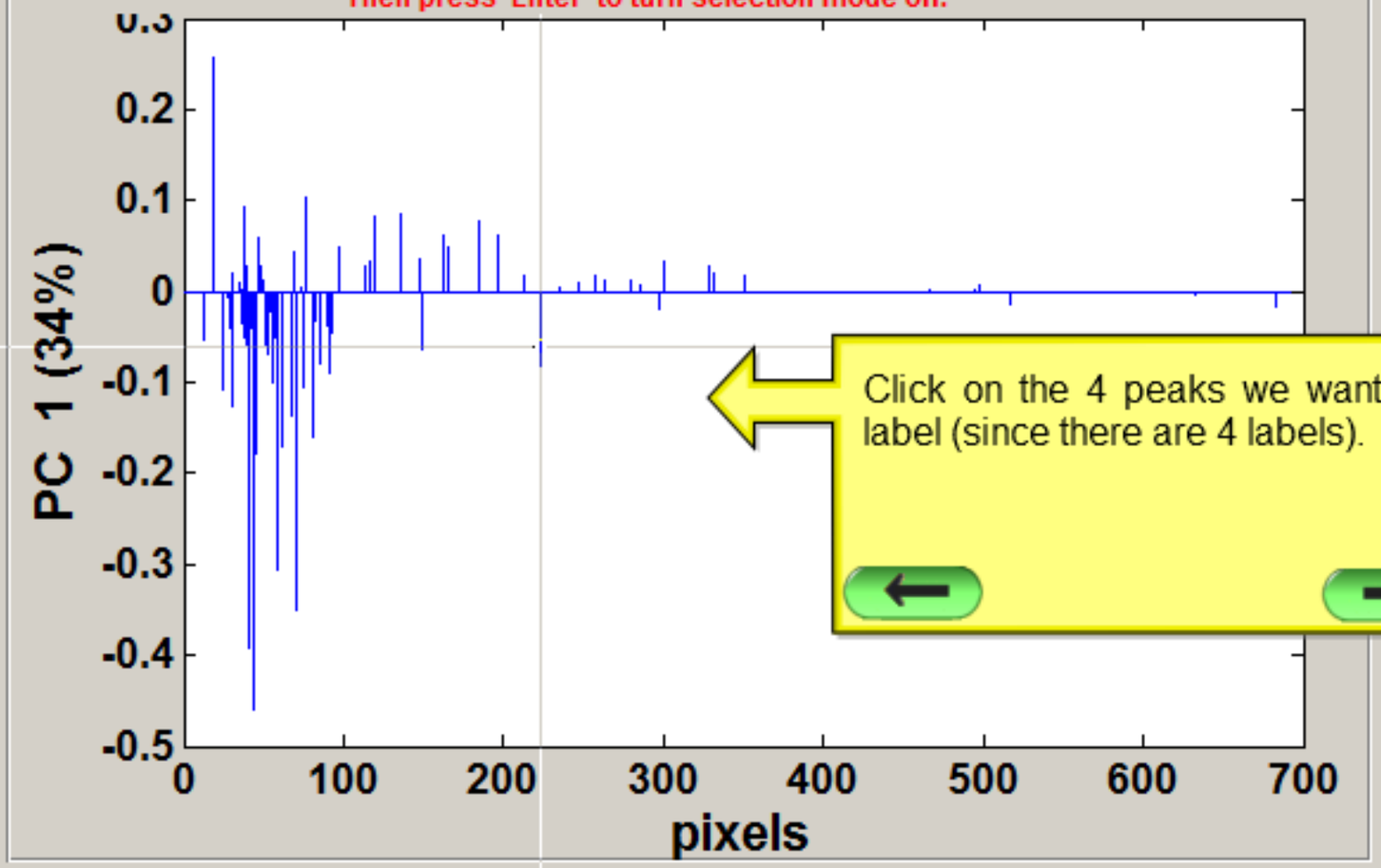
Loadings: PCA_loads
Variables: exactmass_PEGPS_07
% Variance: PCA_var

PC# to plot: 1

Plot Options: Traditional

Plot Loads | Save Figure | Make Ext | Close Panel

Click on a peak where you want the label to appear to add it to the selection.
Then press 'Enter''to turn selection mode off.



Click on the 4 peaks we want to label (since there are 4 labels).

Label Loadings

Label all peaks above a threshold value.

Label Peaks Above

Label Threshold

Image size (microns):

Create Raw Data Plot For Labeled Peaks

Use custom labels for selected peaks.

Custom Labels to use: labelstest

Choose Peaks

Label Custom

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix: exactmass_PEGP...

Scores: Select Scores

Loadings: PCA_loads

Variance: PCA_var

Plot Loadings

Load Selected Data

Load Selected Data

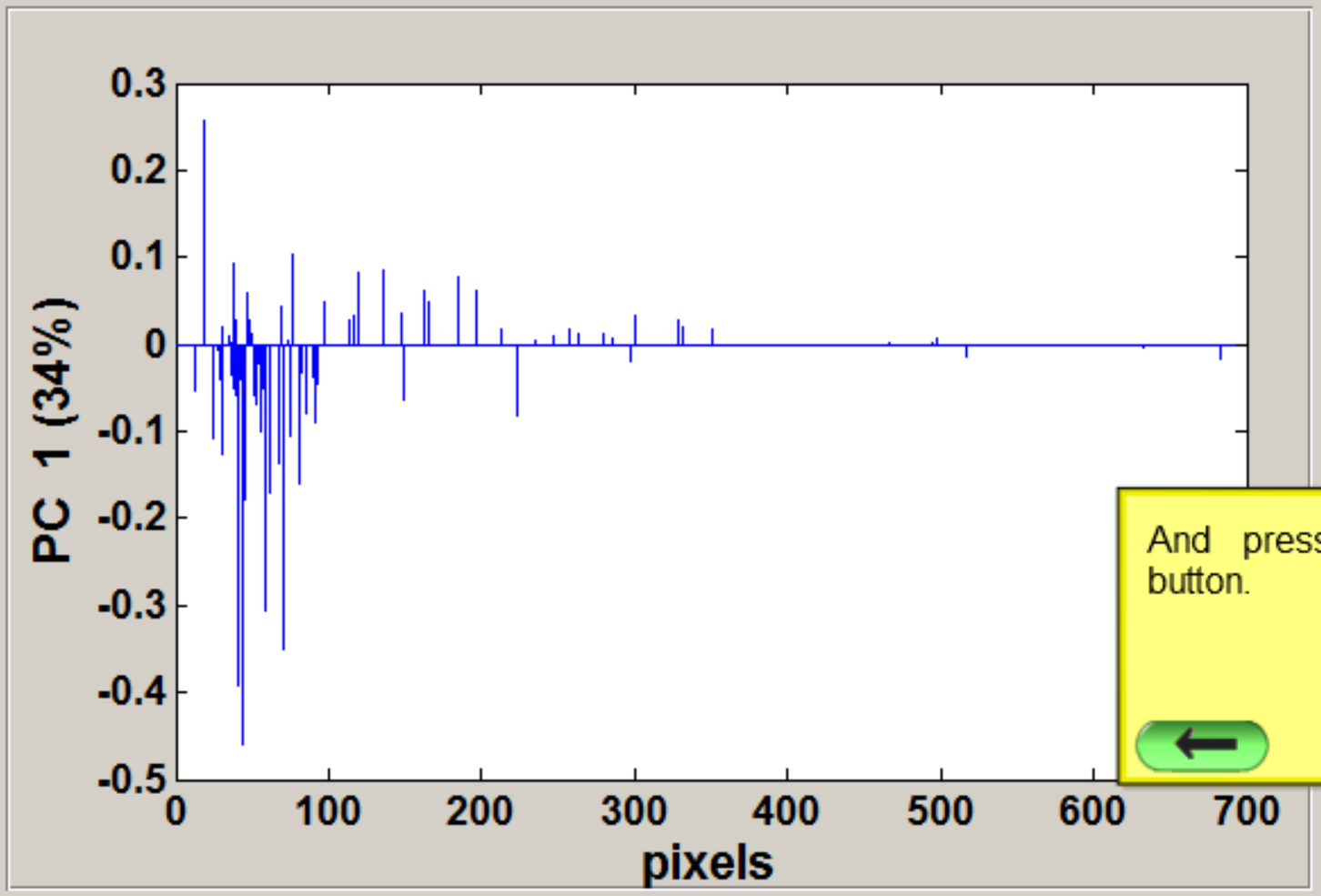
Loaded Data

Loadings: PCA_loads
Variables: exactmass_PEGPS_07
% Variance: PCA_var

PC# to plot: 1

Plot Options: Traditional

Plot Loads | Save Figure | Make Ext | Close Panel



Label Loadings

Label all peaks above a threshold value.

Label Peaks Above

Label Threshold

Image size (microns):

Create Raw Data Plot For Labeled Peaks

Use custom labels for selected peaks.

Custom Labels to use: labelstest

Label Custom

And press the 'Label Custom' button.

imagegui

File Data Pre Processing MVA Data Display Image Processing

Data Selection Panel

Name of Image Matrix: imagedata_PEG...

Name of Variable Matrix: exactmass_PEGP...

Scores: Select Scores

Loadings: PCA_loads

Variance: PCA_var

Plot Loadings

Load Selected Data

Load Selected Data

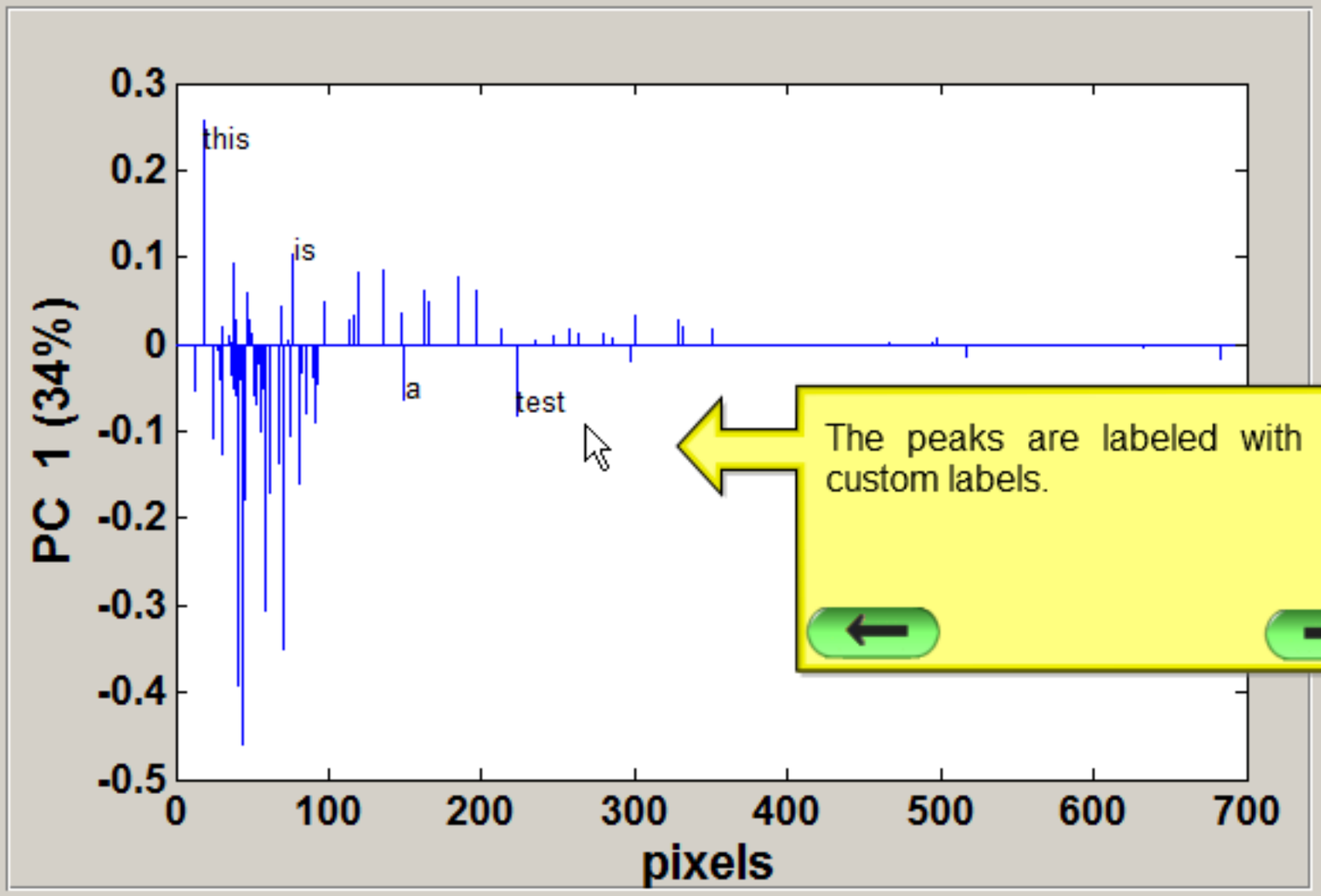
Loaded Data

Loadings: PCA_loads
Variables: exactmass_PEGPS_07
% Variance: PCA_var

PC# to plot: 1

Plot Options: Traditional

Plot Loads | Save Figure | Make Ext | Close Panel



Label Loadings

Label all peaks above a threshold value.

Label Peaks Above

Label Threshold

Image size (microns):

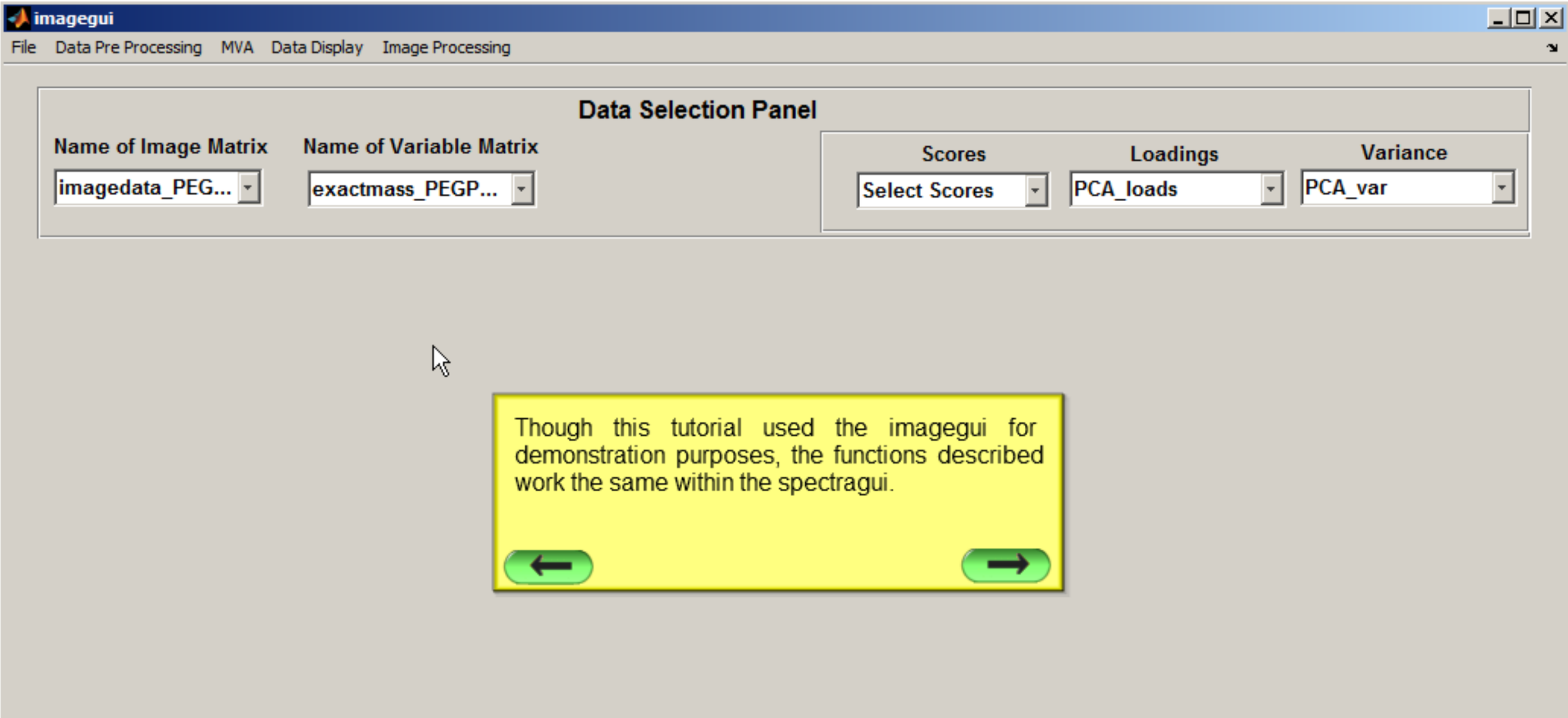
Create Raw Data Plot For Labeled Peaks

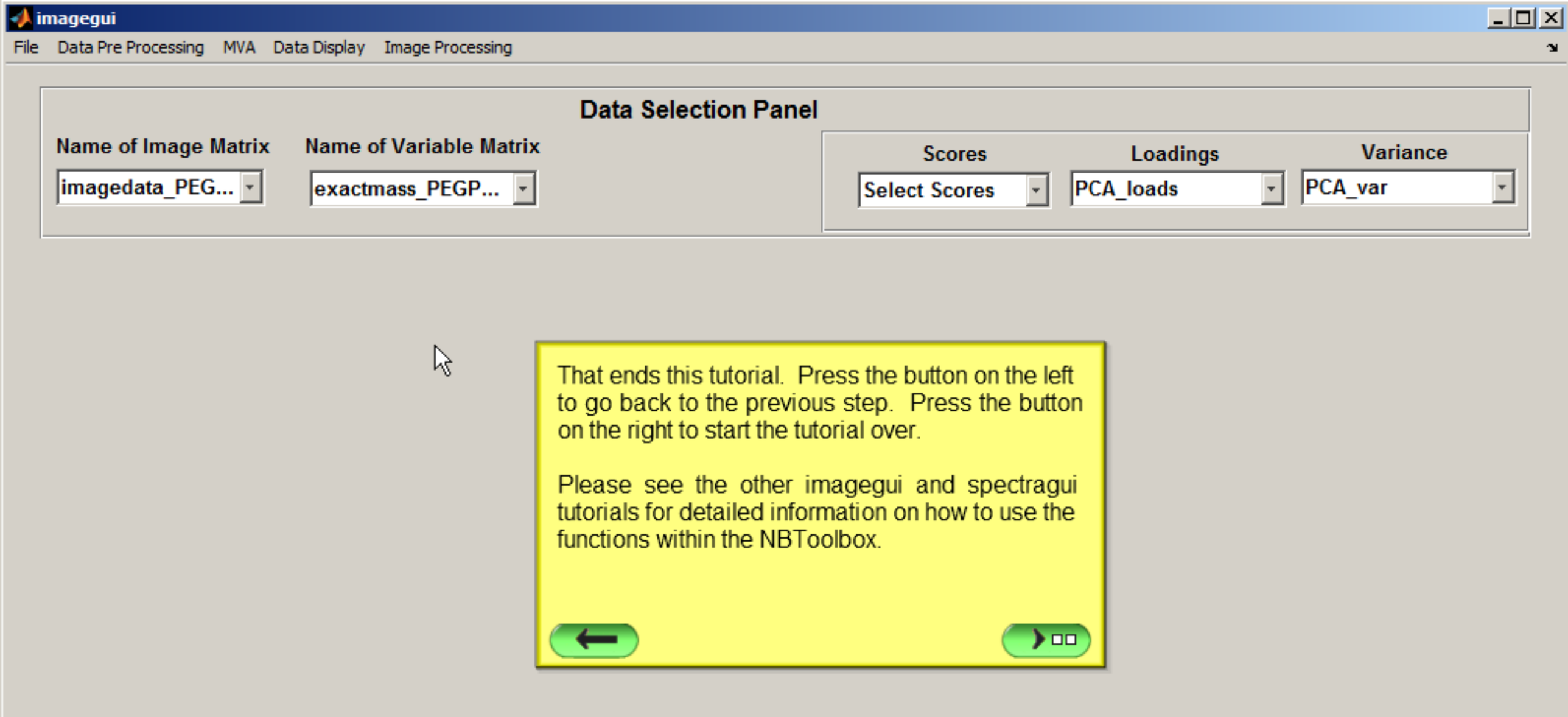
Use custom labels for selected peaks.

Custom Labels to use: labelstest

Choose Peaks

Label Custom


imagegui
File
Data Pre Processing
MVA
Data Display
Image Processing
Data Selection Panel
Name of Image Matrix
imagedata_PEG...
Name of Variable Matrix
exactmass_PEGP...
Scores
Select Scores
Loadings
PCA_loads
Variance
PCA_var
Though this tutorial used the imagegui for demonstration purposes, the functions described work the same within the spectragui.


imagegui
File
Data Pre Processing
MVA
Data Display
Image Processing
Data Selection Panel
Name of Image Matrix
imagedata_PEG...
Name of Variable Matrix
exactmass_PEGP...
Scores
Select Scores
Loadings
PCA_loads
Variance
PCA_var
That ends this tutorial. Press the button on the left to go back to the previous step. Press the button on the right to start the tutorial over.
Please see the other imagegui and spectragui tutorials for detailed information on how to use the functions within the NBToolbox.