



Workspace	
Name	Value
activedata	<56x1 cell>
maxis	<8x8 char>


>>


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.



3D Tools

Save the movie
is box before
vie.

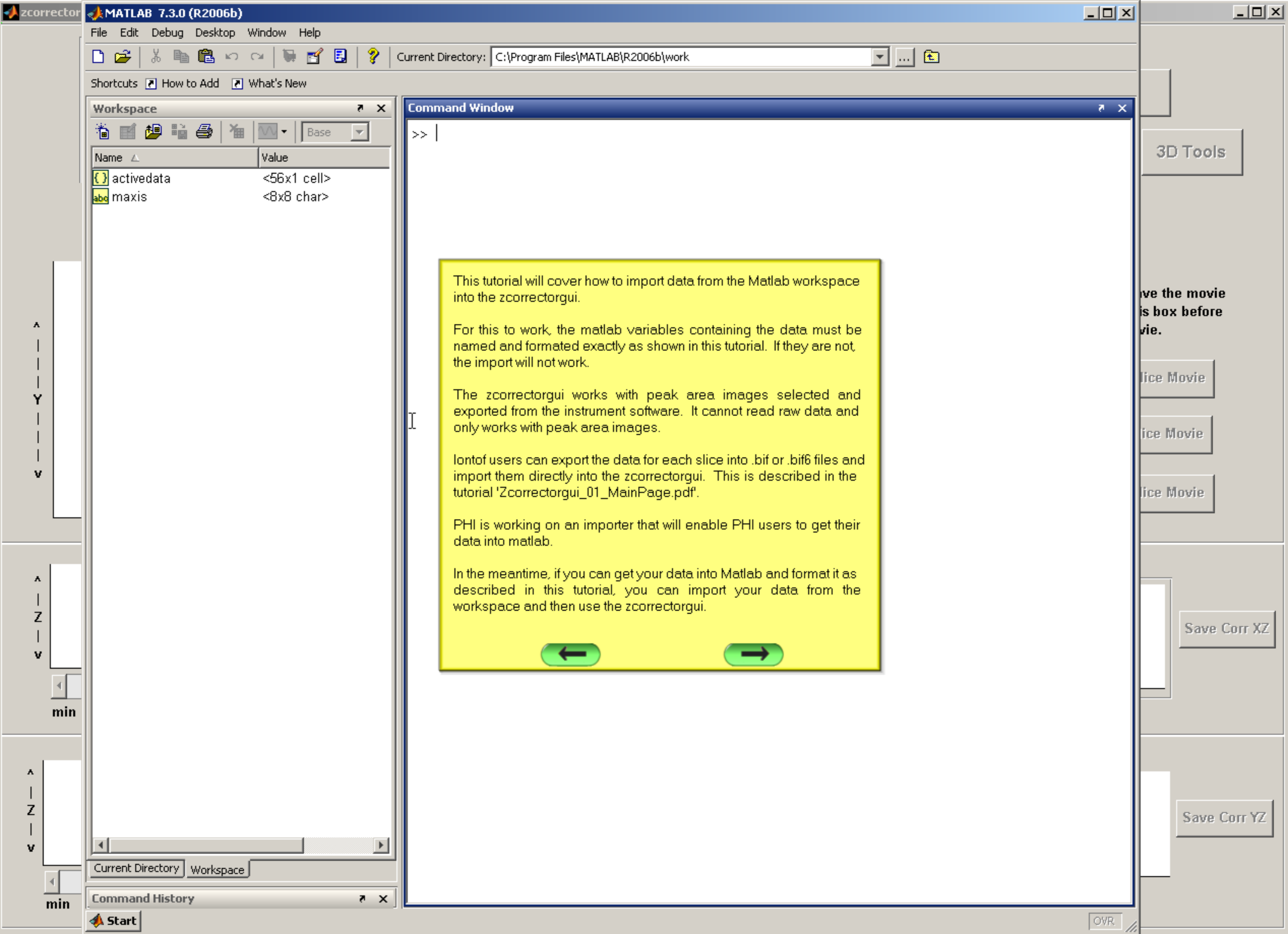
Save Movie

Save Movie

Save Movie

Save Corr XZ

Save Corr YZ



Workspace

Name	Value
activedata	<56x1 cell>
maxis	<8x8 char>

Command Window

>> |

This tutorial will cover how to import data from the Matlab workspace into the zcorrectorgui.

For this to work, the matlab variables containing the data must be named and formatted exactly as shown in this tutorial. If they are not, the import will not work.

The zcorrectorgui works with peak area images selected and exported from the instrument software. It cannot read raw data and only works with peak area images.

Some users can export the data for each slice into .bif or .bif6 files and import them directly into the zcorrectorgui. This is described in the tutorial 'Zcorrectorgui_01_MainPage.pdf'.

PHI is working on an importer that will enable PHI users to get their data into matlab.

In the meantime, if you can get your data into Matlab and format it as described in this tutorial, you can import your data from the workspace and then use the zcorrectorgui.

3D Tools

Save the movie
is box before
vie.

Slice Movie

Slice Movie

Slice Movie

Save Corr XZ

Save Corr YZ

Name	Value
activedata	<56x1 cell>
maxis	<8x8 char>

```
>>
```

There are two required variables for the zcorrectorgui, activedata and maxis.

'activedata' is a cell array that contains the total counts image and peak area images for each slice in the depth profile.

'maxis' contains the masses of the selected peaks in a character array.



3D Tools

Save the movie in this box before movie.

Save Movie

Save Movie

Save Movie

Save Corr XZ

Save Corr YZ

Workspace

Name	Value
activedata	<56x1 cell>
maxis	<8x8 char>

Current Directory Workspace

Command Window

```
>> activedata
```

Let's look at the format of 'activedata'.

← →

3D Tools

Save the movie
is box before
vie.

Save Movie

Save Movie

Save Movie

Save Corr XZ

Save Corr YZ

Import BiF Data From Directory **Import**

Import Data From Workspace **Load WS**

Number of image layers: **None**

Data Being Displayed **None**

Down binning the data cannot be undone.

Once you have the 'activedata' and 'maxis' variables set up properly, you simply press the 'Load WS' button and the data is loaded into the zcorrectorgui.

← →

Total Counts Threshold Value

with Uncorrected Data

Size Corrected Data

Close

Overlay Tools

3D Tools

< ----- X ----- >

Layer number: 1

max

min

Z corrected image XY

< ----- X ----- >

Layer number: 1

max

min

If you want to save the movie frames check this box before creating the movie.

Create XY Corr Slice Movie

Create XZ Corr Slice Movie

Create YZ Corr Slice Movie

< ----- X ----- >

min column # 1 max

Thresholded total counts XZ

Z line XZ

Z corrected image XZ

Save Corr XZ

< ----- Y ----- >

min row # 1 max

Thresholded total counts YZ

Z line YZ

Z corrected image YZ

Save Corr YZ

Import BiF Data From Directory **Import**

Import Data From Workspace **Load WS**

Number of image layers: **56**

Down binning the data cannot be undone. You must reload the original data in order to restore the original matrix.

Downbin Data

Adjust Total Counts Threshold Value

Close

Work with Uncorrected Data

Overlay Tools

3D Tools

Data Being Displayed
Total_Counts

Peak List

Total Counts
58.10555
70.13471
86.19242
104.2413
125.1504
166.2641
184.3038
224.3978

Initialize Corrected Data

The data is loaded and you can now continue using the zcorrectorgui as described in the other tutorials.

← **→**

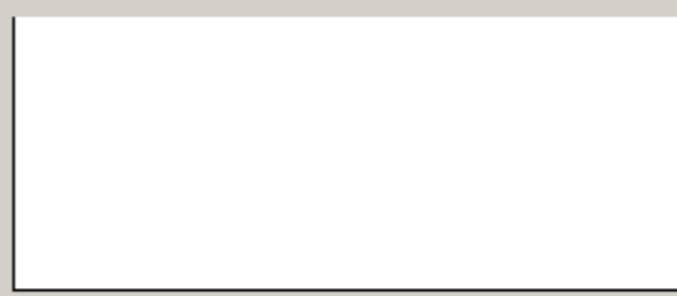
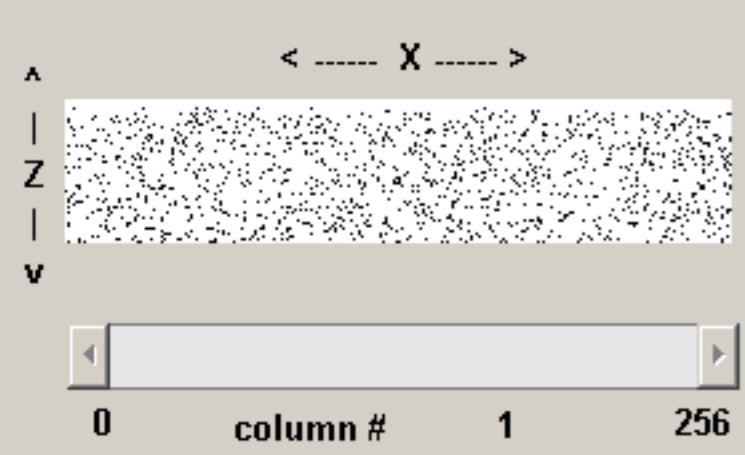
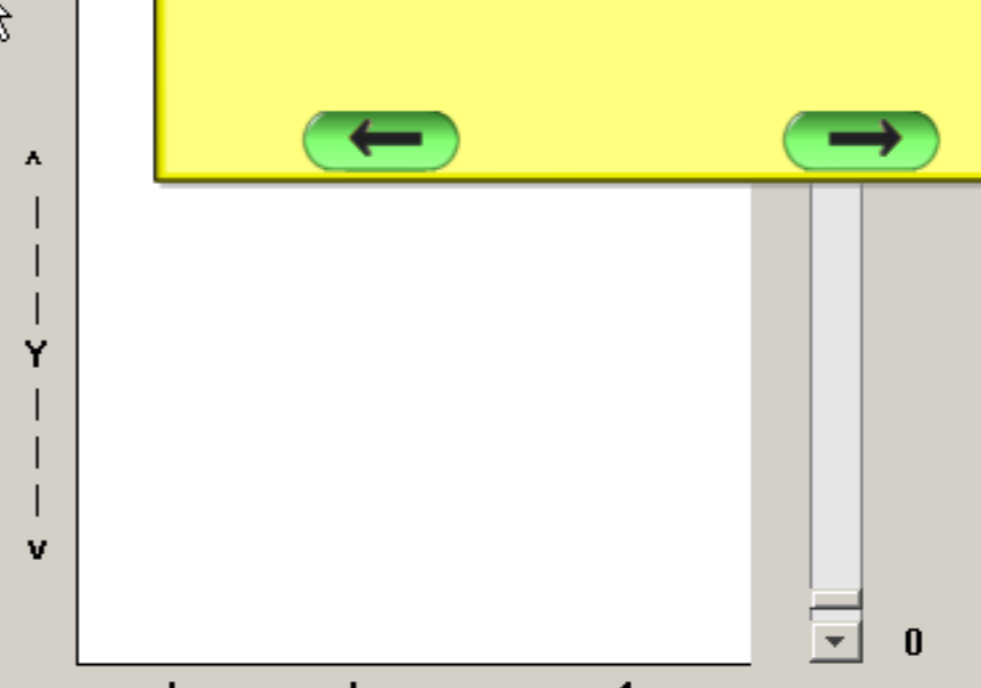
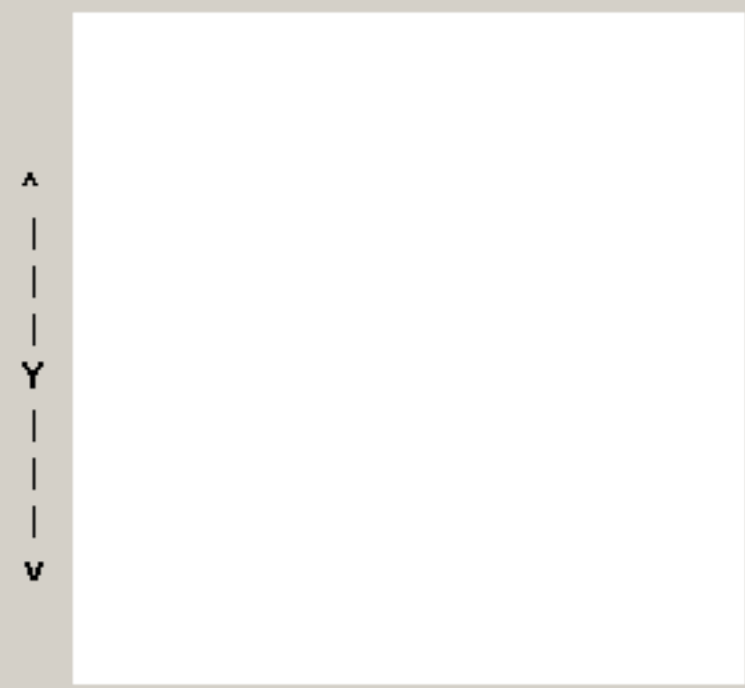
Layer number: 1

If you want to save the movie frames check this box before creating the movie.

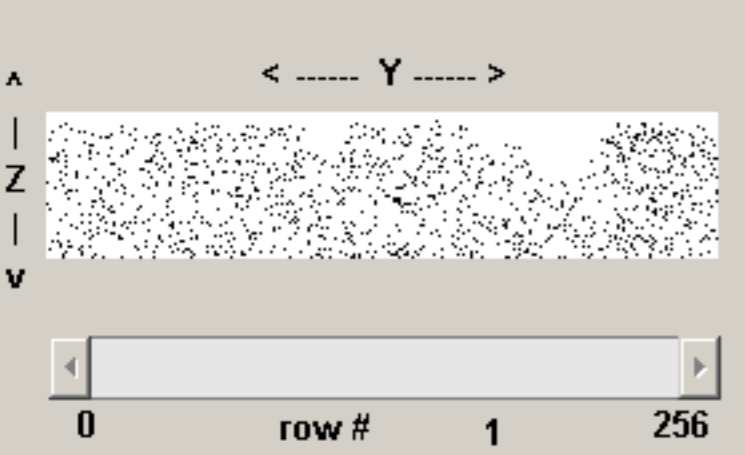
Create XY Corr Slice Movie

Create XZ Corr Slice Movie

Create YZ Corr Slice Movie



Save Corr XZ



Save Corr YZ

Import BiF Data From Directory **Import**

Import Data From Workspace **Load WS**

Number of image layers: **56**

Down binning the data cannot be undone. You must reload the original data in order to restore the original matrix.

Downbin Data

Adjust Total Counts Threshold Value

Work with Uncorrected Data

Close

Overlay Tools

3D Tools

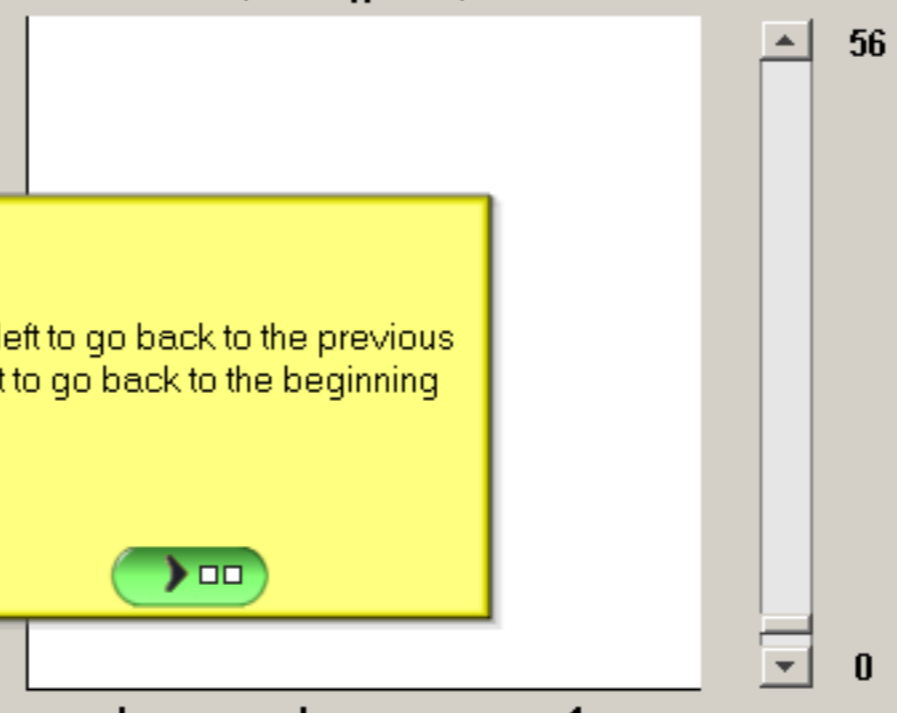
Data Being Displayed **Total_Counts**

Peak List

Total Counts
58.10555
70.13471
86.19242
104.2413

Initialize Corrected Data

Z corrected image XY



That's it for this tutorial.

Press the green button on the left to go back to the previous step. Press the button the right to go back to the beginning of the tutorial.

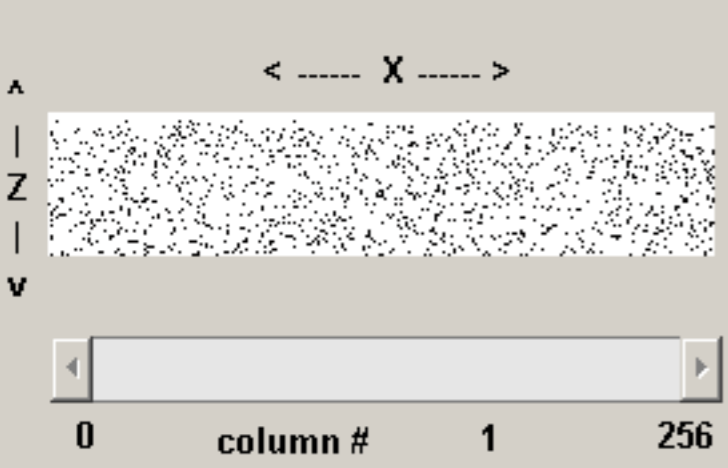
← **▶**

If you want to save the movie frames check this box before creating the movie.

Create XY Corr Slice Movie

Create XZ Corr Slice Movie

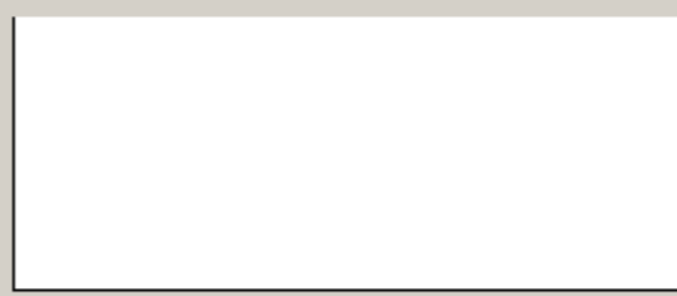
Create YZ Corr Slice Movie



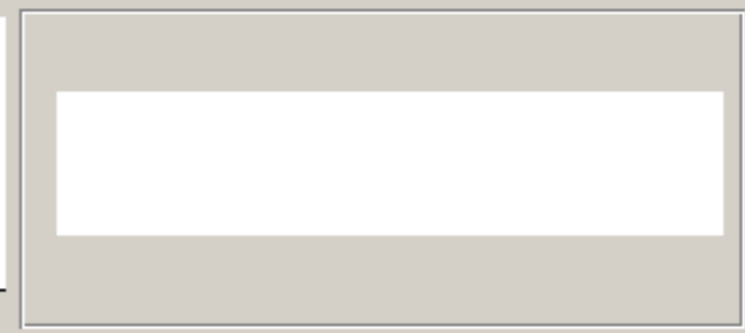
Thresholded total counts XZ



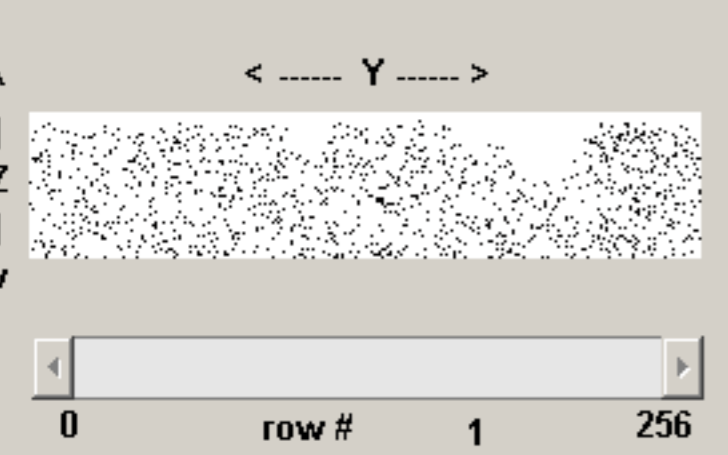
Z line XZ



Z corrected image XZ



Save Corr XZ



Thresholded total counts YZ



Z line YZ



Z corrected image YZ



Save Corr YZ