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.
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

<table>
<thead>
<tr>
<th>Name of Data Matrix</th>
<th>Name of Variable Matrix</th>
<th>Name of Filename Matrix</th>
<th>Name of Totalcounts Matrix</th>
<th>Name of Samplenames Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>data</td>
<td>exactmass</td>
<td>filenames</td>
<td>totalcounts</td>
<td>samplenames</td>
</tr>
</tbody>
</table>

This tutorial will cover how to reorganize a data matrix or select a sub-set of the data using the spectragui.

This is useful if you want to use MVA on a sub-set of the data you imported or if you want to rearrange the order of the samples within a dataset.
From the 'Data Pre-Processing' menu, choose → 'Sub Divide Matrix'
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

- Name of Data Matrix: data
- Name of Variable Matrix: exactmass
- Name of Filename Matrix: filenames
- Name of Totalcounts Matrix: totalcounts
- Name of Samplenames Matrix: samplenames

Reorganize Data Matrix Panel

Make sure the correct data is selected from the drop down menus in the 'Data Selection Panel'.

Original Sample List

Load Selected Data

Loaded Variables

Add to New Matrix

Name for New Data Matrix

Name for New Samplenames

Name for New Filenames

Export New Data

Reset

Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop-down menus to select the data and information you want to use in your analysis.

Reorganize Data Matrix Panel

Load Selected Data

Then press the 'Load Selected Data' button.

Original Sample List

Add to New Matrix

Export New Data

Reset

Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop-down menus to select the data and information you want to use in your analysis.

Reorganize Data Matrix Panel

Loaded Variables
Data: data
Samplenames: sampenames
Filenames: filenames

Original Sample List
New Sample List

A list of the sample groups within the current data set is shown here. The names here correspond with the sampenames created for the data using the “Create Sample Names” function.

Add to New Matrix

Export New Data
Reset
Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise.
Use the drop down menus to select the data and information you want to use in your analysis.

<table>
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<tr>
<th>Name of Data Matrix</th>
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<td>samplenames</td>
</tr>
</tbody>
</table>

Reorganize Data Matrix Panel

Loaded Variables
Data: data
Sample names: samplenames
Filenames: filenames

Original Sample List
10 11 12 13 14 15 18

New Sample List
Click on a sample group you would like to add to the new matrix.
This can be done in any order.

NOTE: If you click on two names in the ‘Original Sample List’ before you press the ‘Add to New Matrix’ button you will have a space in the ‘New Sample List’. If this happens you will need to hit the ‘Reset’ button and start over.
Press the 'Add to New Matrix' button.
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop-down menus to select the data and information you want to use in your analysis.

Name of Data Matrix: data
Name of Variable Matrix: exactmass
Name of Filename Matrix: filenames
Name of Totalcounts Matrix: totalcounts
Name of Samplenames Matrix: samplenames

Reorganize Data Matrix Panel

Load Selected Data

Loaded Variables
Data: data
Samplenames: samplenames
Filenames: filenames

Original Sample List

New Sample List

The sample group is added to the 'New Sample List'

Name for New Filenames

Add to New Matrix

New Data
Reset
Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Name of Data Matrix: data
Name of Variable Matrix: exactmass
Name of Filename Matrix: filenames
Name of Totalcounts Matrix: totalcounts
Name of Samplenames Matrix: samplenames

Reorganize Data Matrix Panel

Load Selected Data

Original Sample List

New Sample List

Loaded Variables
Data: data
Samplenames: samplenames
Filenames: filenames

You can then continue to add more sample groups to the new list in the same way.

Add to New Matrix

Export New Data
Reset
Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Name of Data Matrix: `data`
Name of Variable Matrix: `exactmass`
Name of Filename Matrix: `filenames`
Name of Totalcounts Matrix: `totalcounts`
Name of Samplenames Matrix: `samplenames`

Reorganize Data Matrix Panel

Loaded Variables
- Data: `data`
- Samplenames: `samplenames`
- Filenames: `filenames`

Original Sample List
- Sample List:
  - 3
  - 10
  - 12
  - 14
  - 18

New Sample List
- Sample List:
  - 10
  - 10

Name for New Data Matrix:

Name for New Samplenames:

If you make a mistake press the 'Reset' button. This will clear the 'New Sample List' and reset the function so you can start over.

Add to New Matrix

Export New Data

Reset

Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Reorganize Data Matrix Panel

Original Sample List

New Sample List

After hitting reset you can select the samples you want to add to the new matrix as before.

Add to New Matrix
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Reorganize Data Matrix Panel

You can add samples in any order you want.

Loaded Variables
- Data: data
- Samplenames: sampenames
- Filenames: filenames

Original Sample List
- Samples: 3, 10, 12, 14, 16, 18

New Sample List
- Samples: 10, 10

Name for New Data Matrix

Name for New Filenames
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Name of Data Matrix: data
Name of Variable Matrix: exactmass
Name of Filename Matrix: filenames
Name of Totcounts Matrix: totalcounts
Name of Samplenames Matrix: samplenames

Reorganize

Once you have all of the samples in the new matrix enter names for the new data, samplenames and filenames for the new matrix here.

These must be new names that have not been used before.

Original Sample List

New Sample List

Load Selected Data

Add to New Matrix

Export New Data

Reset

Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise.
Use the drop down menus to select the data and information you want to use in your analysis.

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</tr>
</tbody>
</table>

Reorganize Data Matrix Panel

Loaded Variables
- data
- sample
- filenames

Original Sample List

New Sample List

After you enter the names, press the 'Export New Data' button.

This will place the new variables in the Matlab workspace and place them in the appropriate drop down menu of the 'Data Selection Panel'.

Add to New Matrix

Export New Data
Reset
Close Panel
Data Selection Panel

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Reorganize Data Matrix Panel

The new variables are added to the Matlab workspace and added to their respective drop down menus in the 'Data Selection Panel'.

Original Sample List

<table>
<thead>
<tr>
<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

New Sample List

<table>
<thead>
<tr>
<th>10</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Name for New Data Matrix

newdata

Name for New Samplenames

newsamples

Name for New Filenames

newfiles

Export New Data

Add to New Matrix

Reset

Close Panel
### Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

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That's it for this tutorial.

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