

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	Name of Variable Matrix	Name of Filename Matrix	Name of Totalcounts Matrix	Name of Samplenames Matrix
Select Data	Select Variables	Select Filenames	Select Totalcounts	Select Samples

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.





Shortcuts How to Add

Workspace



Name ▲

data
exactmass
filenames
nommass
samplenames
totalcounts

Current Directory Workspace

Command History

```
10/6/10 3:44  
clear new*  
clc  
clear  
what  
load datafortut  
exactmass  
clc  
clera  
clear  
clc  
edit camecard.m  
clc  
exactmass  
filenames  
clc  
samplenames
```

Start

Data Selection Panel

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Use the drop down menus to select the data and information you want to use in your analysis.

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

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.





Workspace

Workspace panel showing a list of variables:

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Command History

```
%-- 10/6/10 3:44
clear new*
clc
clear
what
load datafortut
exactmass
clc
clera
clear
clc
edit camecard.m
clc
exactmass
filenames
clc
samplenames
```

- Import Data
- Create Sample Names
- Normalize Data
- Delete Samples
- Delete Variables (Peaks)
- 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.

data

Name of Totalcounts Matrix	Name of Samplenames Matrix
totalcounts	samplenames

From the 'Data Pre-Processing' menu choose -> 'Sub Divide Matrix'





Workspace

Name ▲

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

> %-- 10/6/10 3:44
> clear new*
> clc
> clear
> what
> load datafortut
> exactmass
> clc
> clera
> clear
> clc
> edit camecard.m
> clc
> exactmass
> filenames
> clc
> samplenames

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Loaded Variables

Load Selected Data

Original Sample List

Add to New Matrix

Name for New Data Matrix:

Name for New Samplenames:

Name for New Filenames:

Export New Data

Reset

Close Panel

Note: A yellow callout box with arrows points to the 'Loaded Variables' area, containing the text: 'Make sure the correct data is selected from the drop down menus in the 'Data Selection Panel''



Workspace

Name ▲

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

> %-- 10/6/10 3:44
> clear new*
> clc
> clear
> what
> load datafortut
> exactmass
> clc
> clera
> clear
> clc
> edit camecard.m
> clc
> exactmass
> filenames
> clc
> samplenames

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Loaded Variables

Load Selected Data

Original Sample List

Loaded Variables

Name for New Data Matrix

Name for New Samplenames

Name for New Filenames

Export New Data

Reset

Close Panel

Add to New Matrix

Then press the 'Load Selected Data' button.



Workspace

Name ▲

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

> %-- 10/6/10 3:44
> clear new*
> clc
> clear
> what
> load datafortut
> exactmass
> clc
> clera
> clear
> clc
> edit camecard.m
> clc
> exactmass
> filenames
> clc
> samplenames

```

Data Selection Panel

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Name of Data Matrix: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Loaded Variables

Data: data
 Samplenames: samplenames
 Filenames: filenames

Original Sample List

- 6
- 8
- 10
- 12
- 14
- 16
- 18

New Sample List

or New Data Matrix:

or New Samplenames:

or New Filenames:

Export New Data

Reset

Close Panel

Add to New Matrix

A list of the sample groups within the current data set it shown here. The names here correspond with the samplenames created for the data using the 'Create Sample Names' function.



Workspace

Name ▲

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

> %-- 10/6/10 3:44
> clear new*
> clc
> clear
> what
> load datafortut
> exactmass
> clc
> clera
> clear
> clc
> edit camecard.m
> clc
> exactmass
> filenames
> clc
> samplenames

```

Data Selection Panel

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Name of Data Matrix: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Loaded Variables

Data: data
 Samplenames: samplenames
 Filenames: filenames

Original Sample List

6
8
10
12
14
16
18

Add to New Matrix

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 a 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.

←
→

New Data Matrix

New Samplenames

New Filenames

Export New Data

Reset

Close Panel



Workspace

Name ▲

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

> %-- 10/6/10 3:44
> clear new*
> clc
> clear
> what
> load datafortut
> exactmass
> clc
> clera
> clear
> clc
> edit camecard.m
> clc
> exactmass
> filenames
> clc
> samplenames

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Load Selected Data

Loaded Variables

Data: data

Samplenames: samplenames

Filenames: filenames

Original Sample List

- 6
- 8
- 10
- 12
- 14
- 16
- 18

New Sample List

Name for New Data Matrix:

Name for New Samplenames:

Name for New Filenames:

Export New Data

Reset

Close Panel

Add to New Matrix

Press the 'Add to New Matrix' button.

←
→



Workspace

Name ▲

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

> %-- 10/6/10 3:44
> clear new*
> clc
> clear
> what
> load datafortut
> exactmass
> clc
> clera
> clear
> clc
> edit camecard.m
> clc
> exactmass
> filenames
> clc
> samplenames

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Loaded Variables

Data: data
 Samplenames: samplenames
 Filenames: filenames

Original Sample List

6

8

10

12

14

16

18

Add to New Matrix

New Sample List

6

New Data

Reset

Name for New Filenames

Close Panel

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

←
→



Workspace

Name

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

-- 10/6/10 3:44
clear new*
clc
clear
what
load datafortut
exactmass
clc
clera
clear
clc
edit camecard.m
clc
exactmass
filenames
clc
samplenames

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Loaded Variables

Data: data
 Samplenames: samplenames
 Filenames: filenames

Original Sample List

6
8
10
12
14
16
18

Add to New Matrix

New Sample List

6

Name for New Data Matrix

Name for New Samplenames

Name for New Filenames

Export New Data

Reset

Close Panel

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



Workspace

Name ▲

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

> %-- 10/6/10 3:44
> clear new*
> clc
> clear
> what
> load datafortut
> exactmass
> clc
> clera
> clear
> clc
> edit camecard.m
> clc
> exactmass
> filenames
> clc
> samplenames

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Loaded Variables

Data: data
 Samplenames: samplenames
 Filenames: filenames

Original Sample List

- 6
- 8
- 10
- 12
- 14
- 16
- 18

New Sample List

- 6
- 10
- 18

Name for New Data Matrix

Add to New Matrix

Name for New Samplenames

Export New Data

Load Selected Data

Reset

Close Panel

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.



Workspace

Name ▲

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

-- 10/6/10 3:44
clear new*
clc
clear
what
load datafortut
exactmass
clc
clera
clear
clc
edit camecard.m
clc
exactmass
filenames
clc
samplenames

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Loaded Variables

Data: data
 Samplenames: samplenames
 Filenames: filenames

Original Sample List

- 6
- 8
- 10
- 12
- 14
- 16
- 18

New Sample List

New Data Matrix

New Samplenames

Name for New Filenames

Export New Data

Reset

Close Panel

Load Selected Data

Add to New Matrix

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



Shortcuts How to Add

Workspace

Name

- data
- exactmass
- filenames
- newdata
- newfiles
- newsamples
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

-- 10/6/10 3:44
clear new*
clc
clear
what
load datafortut
exactmass
clc
clera
clear
clc
edit camecard.m
clc
exactmass
filenames
clc
samplenames

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Load Selected Data

Loaded Variables

Data: data

Samplenames: samplenames

Filenames: filenames

Original Sample List

6
8
10
12
14
16
18

New Sample List

8
10
18

Name for New Data Matrix

Name for New Filenames

Add to New Matrix

Export New Data

Reset

Close Panel

You can add samples in any order you want.



Workspace

Name

- data
- exactmass
- filenames
- newdata
- newfiles
- newsamples
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

> %-- 10/6/10 3:44
> clear new*
> clc
> clear
> what
> load datafortut
> exactmass
> clc
> clera
> clear
> clc
> edit camecard.m
> clc
> exactmass
> filenames
> clc
> samplenames

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data

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: 6, 8, 10, 12, 14, 16, 18

New Sample List: 8, 10, 18, 12, 6, 14

Name for New Data Matrix:

Name for New Samplenames:

Name for New Filenames:

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.





Shortcuts How to Add

Workspace



Name

- data
- exactmass
- filenames
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

load datafortut
exactmass
clc
clera
clear
clc
edit camecard.r
clc
exactmass
filenames
clc
samplenames
clc
clear new*
clc
clear new*
what
save datafortut
clc

```

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: Name of Variable Matrix: Name of Filename Matrix: Name of Totalcounts Matrix: Name of Samplenames Matrix:

Reorganize Data Matrix Panel

Load Selected Data

Loaded Variables
 Data: **data**
 Samplenames: **samplenames**
 Filenames: **filenames**

- Original Sample List
- 6
 - 8
 - 10
 - 12
 - 14
 - 16
 - 18

- New Sample List
- 8
 - 10
 - 18
 - 12
 - 6
 - 14

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'

Export New Data

Reset

Close Panel

Add to New Matrix

- data
- exactmass
- filenames
- newdata
- newfiles
- newsamples
- nommass
- samplenames
- totalcounts

```

load datafortut
exactmass
clc
clera
clear
clc
edit camecard.r
clc
exactmass
filenames
clc
samplenames
clc
clear new*
clc
clear new*
what
save datafortut
clc

```

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:
 Name of Variable Matrix:
 Name of Filename Matrix:
 Name of Totalcounts Matrix:
 Name of Samplenames Matrix:

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'.

- Variables
- data
 - samplenames
 - filenames

- Original Sample List
- 6
 - 8
 - 10
 - 12
 - 14
 - 16
 - 18

- New Sample List
- 8
 - 10
 - 18
 - 12
 - 6
 - 14

Name for New Data Matrix:

Name for New Samplenames:

Name for New Filenames:

Export New Data

Reset

Close Panel

Add to New Matrix



Shortcuts How to Add

Workspace



Name

- data
- exactmass
- filenames
- newdata
- newfiles
- newsamples
- nommass
- samplenames
- totalcounts

Current Directory Workspace

Command History

```

load datafortut
exactmass
clc
clera
clear
clc
edit camecard.r
clc
exactmass
filenames
clc
samplenames
clc
clear new*
clc
clear new*
what
save datafortut
clc

```

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

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.

← →