

### 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.

Workspace

Name

Name

Current Directory

Command History

8/13/10 9:4

Command Window

>>  
>> |

I

This tutorial will cover how to create the `samplenames` variable.

The `samplenames` variable must contain a set of unique names for each sample, where each spectrum from a given sample has the same name and each name for a given sample type is unique.

This is required for many of the functions within the `spectragui` to work properly.





**Workspace**

Name

- data
- exactmass
- filenames
- labels
- nommass
- totalcounts

Current Directory

**Command History**

```

>> spectragui
  
```

To start from the 'Data Pre-Processing' menu choose -> 'Create Samplenames'

These

**Name of Data Matrix**  
 Select Data



**Name of Totalcounts Matrix**  
 Select Totalcounts

**Name of Samplenames Matrix**  
 Select Samples

anel  
 analysis unless you specify otherwise

Workspace

Name
data
exactmass
filenames
labels
nommass
totalcounts

Current Directory: Wor

Command History

```

>> spectragui
  
```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

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 Filename		

Make sure the correct filename list is selected.

← →

### Sample Name Generator

Number of sample

Name for Sample Group	Number of sample	Add to list

Current Filename List	name	num	Name for Sample Name Matrix

Generate Names

Close Panel

Workspace

Name
data
exactmass
filenames
labels
nommass
totalcounts

Current Directory: Wor

Command History

```

>> spectragui

```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

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

### Sample Name Generator

Number of sample

Press the 'Show Current File List' button.

Show Current File List

Current Filename List

Add to list

Name for Sample Name Matrix

Generate Names

Close Panel

Workspace

Name
data
exactmass
filenames
labels
nommass
totalcounts

Current Directory: Wor

Command History

```

>> spectragui
  
```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

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

### Sample Name Generator

Number of sample

Name for Sample Group

Show Current File List

Current Filename List

- 06104
- 06105
- 06106
- 06104
- 06105
- 06106
- 08104
- 08105
- 08106
- 08104
- 08105
- 08106
- 10104
- 10105
- 10106

Add to list

Name for Sample Name Matrix

Generate Names

Close Panel

The selected list of filenames is shown. You can use this as a guide for creating the sample names.

For this set of data there are 7 different samples with 6 files/spectra each.

Workspace

Name

- data
- exactmass
- filenames
- labels
- nommass
- totalcounts

Current Directory

Command History

```

>> spectragui

```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

Name of Data Matrix:

Name of Variable Matrix:

Name of Filename Matrix:

Name of Totalcounts Matrix:

Name of Samplenames Matrix:

### Sample Name Generator

Number of sample

Show Current File List

Current Filename List

- 06104
- 06105
- 06106
- 06104
- 06105
- 06106
- 08104
- 08105
- 08106
- 08104
- 08105
- 08106
- 10104
- 10105
- 10106

Name for Sample Group

name

Generate Names

Close Panel

Now enter a name for the first sample type.

You can use any name you want, but shorter names are better since these names will be used to label plots in other scripts.

Workspace

Name

- data
- exactmass
- filenames
- labels
- nommass
- totalcounts

Current Directory

Command History

```

>> spectragui

```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

Name of Data Matrix:

Name of Variable Matrix:

Name of Filename Matrix:

Name of Totalcounts Matrix:

Name of Samplenames Matrix:

### Sample Name Generator

Show Current File List

Current Filename List

- 06104
- 06105
- 06106
- 06104
- 06105
- 06106
- 08104
- 08105
- 08106
- 08104
- 08105
- 08106
- 10104
- 10105
- 10106

Name for Sample Group:

Number of sample:

name

num

Generate Names

Close Panel

Now enter the number of files/spectra for the given sample.



Workspace

Name
data
exactmass
filenames
labels
nommass
totalcounts

Current Directory: Wor

Command History

```

>> spectragui
  
```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

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

### Sample Name Generator

Number of sample

Name for Sample Group: 6

Number of sample: 6

Current Filename List:

- 06104
- 06105
- 06106
- 06104
- 06105
- 06106
- 08104
- 08105
- 08106
- 08104
- 08105
- 08106
- 10104
- 10105
- 10106

name: num

Add to list

Press the 'Add to list' button

Close Panel

Workspace

Name

- data
- exactmass
- filenames
- labels
- nommass
- totalcounts

Current Directory

Command History

```

>> spectragui

```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

Name of Data Matrix:

Name of Variable Matrix:

Name of Filename Matrix:

Name of Totalcounts Matrix:

Name of Samplenames Matrix:

### Sample Name Generator

Show Current File List

Current Filename List

- 06104
- 06105
- 06106
- 06104
- 06105
- 06106
- 08104
- 08105
- 08106
- 08104
- 08105
- 08106
- 10104
- 10105
- 10106

Name for Sample Group:

Number of sample:

Add to list

Close Panel

And the name and number are added to the samplenames list

Workspace

Name

- data
- exactmass
- filenames
- labels
- nommass
- totalcounts

Current Directory

Command History

```

>> spectragui

```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

Name of Data Matrix:

Name of Variable Matrix:

Name of Filename Matrix:

Name of Totalcounts Matrix:

Name of Samplenames Matrix:

### Sample Name Generator

Show Current File List

Current Filename List

- 06104
- 06105
- 06106
- 06104
- 06105
- 06106
- 08104
- 08105
- 08106
- 08104
- 08105
- 08106
- 10104
- 10105
- 10106

Name for Sample Group:

Number of sample:

name

- 6

num

- 6

Generate Names

Close Panel

Now continue adding samples in the same way until the list is complete.

Workspace

Name

- data
- exactmass
- filenames
- labels
- nommass
- totalcounts

Current Directory

Command History

```

>> spe
>>
>>
  
```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

Name of Data Matrix:

Name of Variable Matrix:

Name of Filename Matrix:

Name of Totalcounts Matrix:

Name of Samplenames Matrix:

### Sample Name Generator

Number of sample

Name for Sample Group:

Number of sample:

Current Filename List

- 06104
- 06105
- 06106
- 06104
- 06105
- 06106
- 08104
- 08105
- 08106
- 08104
- 08105
- 08106
- 10104
- 10105
- 10106

name

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

num

- 6
- 6
- 6
- 6
- 6
- 6
- 6

Name for Sample Name Matrix:

Once all the samples are entered. Choose a name for your sample names variable. This can be any name you want.

Workspace

Name

- data
- exactmass
- filenames
- labels
- nommass
- totalcounts

Command History

```

>>
>> spe
>>
  
```

Current Directory

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

Name of Data Matrix:

Name of Variable Matrix:

Name of Filename Matrix:

Name of Totalcounts Matrix:

Name of Samplenames Matrix:

### Sample Name Generator

Show Current File List

Current Filename List

- 06104
- 06105
- 06106
- 06104
- 06105
- 06106
- 08104
- 08105
- 08106
- 08104
- 08105
- 08106
- 10104
- 10105
- 10106

Name for Sample Group:

Number of sample:

name

- 6
- 8
- 10
- 12
- 14

num

- 6
- 6
- 6
- 6
- 6

Add to list

Name for Sample Name Matrix:

Generate Names

Close Panel

Press the 'Generate Names' button and the samplenames are added to the spectragui samplenames menu and to the Matlab workspace.

## Workspace

Name	Value
data	<42x84 double>
exactmass	<84x15 char>
filenames	<42x15 char>
nommass	<84x15 char>
samplenames	<42x4 char>
totalcounts	<42x1 double>

Current Directory Workspace

## Command History

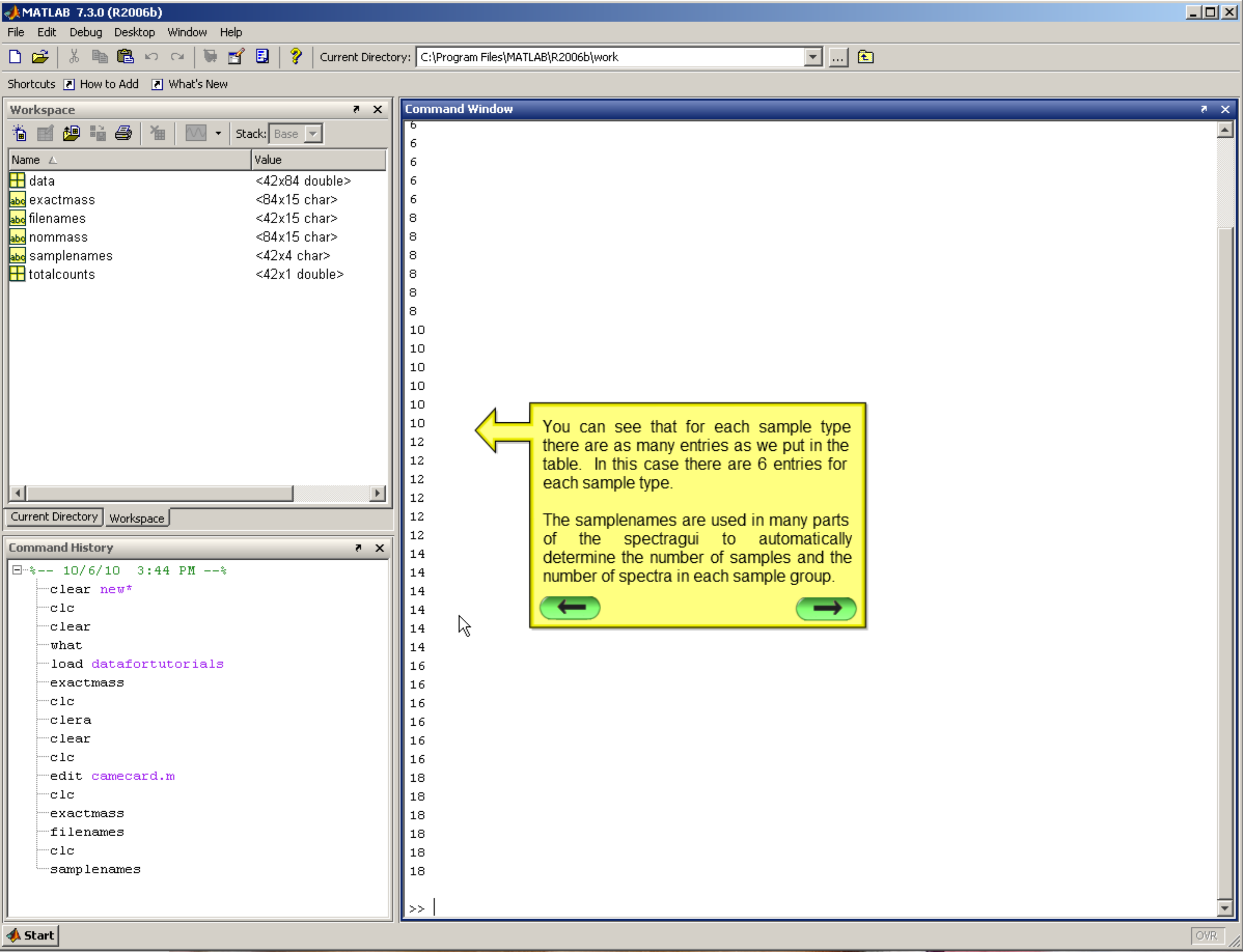
```
-- 10/6/10 3:44 PM --%
clear new*
clc
clear
what
load datafortutorials
exactmass
clc
clera
clear
clc
edit camecard.m
clc
exactmass
filenames
clc
```

## Command Window

&gt;&gt; |

Let's look at what the samplenames variable looks like.







**Workspace**

Name

- data
- exactmass
- filenames
- labels
- nommass
- totalcounts

Current Directory

**Command History**

```
>> spe
>>
```

### Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

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

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.

←      →