File Handling in Scilab

Talk to a Teacher
http://spoken-tutorial.org
National Mission on Education through ICT
http://www.sakshat.ac.in

Script & Narration
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Learning Objectives

- **File Handling with the following functions:**

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- **File Handling with the following functions:**
  - **Write Function**

- **File Handling with the following functions:**
  - **Write Function**
  - **Read Function**

- **File Handling with the following functions:**
  - **Write Function**
  - **Read Function**
  - **mopen**

- **File Handling with the following functions:**
    - Write Function
    - Read Function
    - mopen
    - mclose

Software requirement

- **OS: Ubuntu 12.04**

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- **Scilab version: 5.3.3**

- **Basic knowledge of Scilab**

Prerequisite

- **Basic knowledge of Scilab**
- **If not, for relevant tutorials please visit http://spoken-tutorial.org**

File Handling

Involves-

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- **Writing to a file using** `write()`

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File Handling

Involves-

- **Writing to a file using** `write()`
- **Reading from a file using** `read()`
- **Opening an existing file using** `mopen()`
- **Closing an already opened file using** `mclose()`

mopen

fd = mopen(file-name, mode)

- **Used to open a existing file**

`fd = mopen(file-name, mode)`

- **Used to open a existing file**
- **in a way compatible to C fopen procedure**

mopen

`fd = mopen(file-name, mode)`

- **Used to open a existing file**
- **in a way compatible to C fopen procedure**
- **mode is a character string**

mopen

`fd = mopen(file-name, mode)`

- **Used to open a existing file**
- **in a way compatible to C fopen procedure**
- **mode is a character string**
- **controls whether the file is opened for**

- r = Opens the file for reading

mopen: mode

- r = Opens the file for reading
- rb = Opens a binary file for reading

mopen: mode

- r = Opens the file for reading
- rb = Opens a binary file for reading
- rt = Opens a text file for reading

mopen: mode

- r = Opens the file for reading
- rb = Opens a binary file for reading
- rt = Opens a text file for reading
- w = Creates a new file for writing, or

mopen: mode

- r = Opens the file for reading
- rb = Opens a binary file for reading
- rt = Opens a text file for reading
- w = Creates a new file for writing, or
  opens and truncates a file to zero length

- **wb = Creates a new binary file for writing, or**

- ▶ **wb = Creates a new binary file for writing, or
  opens and truncates a file to zero length**

- ▶ **wb = Creates a new binary file for writing, or
  opens and truncates a file to zero length**

- ▶ **wt = Creates a text binary file for writing, or**

mopen: mode

- **wb = Creates a new binary file for writing, or opens and truncates a file to zero length**

- **wt = Creates a text binary file for writing, or opens and truncates a file to zero length**

- a or ab = Appends (opens a file for writing at the end of the file, or

- a or ab = Appends (opens a file for writing at the end of the file, or creates a file for writing)

- a or ab = Appends (opens a file for writing at the end of the file, or creates a file for writing)
- r+ or r+b = Opens a file for update (reading and writing)

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mopen: Example

```
fd_r = mopen('random-numbers,'rt')
```

mopen: Example

fd_r = mopen('random-numbers,'rt')

opens the 'random-numbers' **as text and read-only mode**

mclose

`mclose(fd)`

- **closes the opened file by using mopen**

mclose

mclose(fd)

- **closes the opened file by using mopen**
- where fd is the file descriptor of the opened file

mclose

`mclose(fd)`

- **closes the opened file by using mopen**
- **where fd is the file descriptor of the opened file**
- **If fd is omitted mclose closes the last opened file**

Summary

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About the Spoken Tutorial Project

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- ▶ **Conducts workshops using spoken tutorials**

- ▶ **Gives certificates to those who pass an online test**

- ▶ **For more details, please write to contact@spoken-tutorial.org**

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- **More information on this Mission is available at http://spoken-tutorial.org /NMEICT-Intro**