

# Package ‘DataGraph’

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**Type** Package

**Title** Export Data from 'R' to 'DataGraph'

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**Description** Functions to pipe data from 'R' to 'DataGraph', a graphing and analysis application for mac OS. Create a live connection using either '.dtable' or '.dtbin' files that can be read by 'DataGraph'. Can save a data frame, collection of data frames and sequences of data frames and individual vectors. For more information see <<https://community.visualdatatools.com/datagraph/knowledge-base/r-package/>>.

**License** GPL (>= 2)

**Imports** Rcpp (>= 0.12.10)

**LinkingTo** Rcpp

**NeedsCompilation** yes

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**Description**

Transfers data from 'R' to 'DataGraph'. Save either .dtable or .dtbin files that can be read by 'DataGraph', a graphing and analysis application for MacOS. Can save a data frame, collection of data frames and sequences of data frames and individual vectors.

**Details**

There is a total of eight functions in this package One step to save a data frame into a .dtable file  
writeDTable(path name,data frame)

To save multiple data frames into a single .dtable file openDTable(path name) addDTable(path name,data frame) closeDTable(path name)

To save a .dtbin file, which can contain multiple lists and data frames by name and each one can be a sequence saved by "time" openDTBin(path name) addDTBin(path name,entry name,data (frame or column),time (optional)) infoDTBin(path name) : Prints out the current content of the file closeDTBin(path name)

**Author(s)**

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**Examples**

```
## Not run:
writeDTable("/tmp/test",mtcars)

openDTable("/tmp/test2")
addDTable("/tmp/test2",data frame)
... modify the table
addDTable("/tmp/test2",data frame)
closeDTable("/tmp/test2")

openDTBin("/tmp/test3")
addDTBin("/tmp/test3","Cars",mtcars)
addDTBin("/tmp/test3","Orange",Orange)
infoDTBin("/tmp/test3")
closeDTBin("/tmp/test3")

## End(Not run)
```

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addDTable	<i>Save a data frame to a .dtable file</i>
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**Description**

Adds a table to an already open table file. Need to open it first by using the openDTable function.

**Usage**

```
addDTable(path, data)
```

**Arguments**

path	A path name
data	A data frame

**Value**

Nothing returned

**Examples**

```
## Not run:  
openDTable("/tmp/test")  
addDTable("/tmp/test", Orange)  
closeDTable("/tmp/test")  
  
## End(Not run)
```

---

addDTBin	<i>Save a data frame to a .dtbin file</i>
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---

**Description**

Adds the data into a .dtbin file.

**Usage**

```
addDTBin(path, name, data, time)
```

**Arguments**

path	A path name
name	The name of the variable
data	Either a data frame or a vector
time	optional: What time value this variable is at

**Value**

Nothing returned

**Examples**

```
## Not run:  
openDTBin("/tmp/test")  
addDTBin("/tmp/test","A",Orange)  
closeDTBin("/tmp/test")  
  
## End(Not run)
```

---

closeDTable

*Save a data frame to a .dtable file*

---

**Description**

Closes a .dtable file

**Usage**

```
closeDTable(path)
```

**Arguments**

path            A path name

**Value**

Nothing returned

**Examples**

```
## Not run:  
openDTBin("/tmp/test")  
addDTBin("/tmp/test","A",Orange)  
closeDTBin("/tmp/test")  
  
## End(Not run)
```

---

closeDTBin	<i>Close a .dtbin file</i>
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**Description**

Closes a .dtbin file

**Usage**

```
closeDTBin(path)
```

**Arguments**

path	A path name
------	-------------

**Value**

Nothing returned

**Examples**

```
## Not run:  
openDTBin("/tmp/test")  
addDTBin("/tmp/test","A",Orange)  
closeDTBin("/tmp/test")  
  
## End(Not run)
```

---

infoDTBin	<i>Save a data frame to a .dtable file</i>
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---

**Description**

Displays the content of a .dtbin file

**Usage**

```
infoDTBin(path)
```

**Arguments**

path	A path name
------	-------------

**Value**

Nothing returned, but data is printed to the console. Intended as a debugging aid.

**Examples**

```
## Not run:
openDTBin("/tmp/test")
addDTBin("/tmp/test", "A", Orange)
infoDTBin("/tmp/test")
closeDTBin("/tmp/test")

## End(Not run)
```

---

openDTable

*Open a .dtable file so you can write into it using addDTable*

---

**Description**

Saves the data frame to a file

**Usage**

```
openDTable(path)
```

**Arguments**

path            A path name

**Value**

Nothing returned

**Examples**

```
## Not run:
openDTable("/tmp/test")
addDTable("/tmp/test", Orange)
closeDTable("/tmp/test")

## End(Not run)
```

---

openDTBin	<i>Open a new .dtbin file</i>
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---

**Description**

Opens a .dtbin file. Prints out an error message if the file is already open.

**Usage**

```
openDTBin(path)
```

**Arguments**

path	A path name
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**Value**

Nothing returned

**Examples**

```
## Not run:  
openDTBin("/tmp/test")  
addDTBin("/tmp/test","A",Orange)  
infoDTBin("/tmp/test")  
closeDTBin("/tmp/test")  
  
## End(Not run)
```

---

syncDTable	<i>Adds a .sync file with the same name as the .dtable file.</i>
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---

**Description**

Used so that DataGraph can read up to an internal boundary inside the data file and avoids reading a partial table. DataGraph monitors this file and reloads the file when it sees a new sync file.

**Usage**

```
syncDTable(path)
```

**Arguments**

path	A path name
------	-------------

**Value**

Nothing returned

**Examples**

```
## Not run:
openDTable("/tmp/test")
addDTable("/tmp/test", Orange)
syncDTable("/tmp/test")
addDTable("/tmp/test", Orange)
closeDTable("/tmp/test")

## End(Not run)
```

---

syncDTBin

*Adds a .sync file with the same name as the .dtbin file.*

---

**Description**

Used so that DataGraph can read up to an internal boundary inside the data file and avoids reading a partial table. DataGraph monitors this file and reloads the file when it sees a new sync file.

**Usage**

```
syncDTBin(path)
```

**Arguments**

path            A path name

**Value**

Nothing returned

**Examples**

```
## Not run:
openDTBin("/tmp/test")
addDTBin("/tmp/test", "Orange", Orange)
syncDTBin("/tmp/test")
addDTBin("/tmp/test", "Orange", Orange)
closeDTBin("/tmp/test")

## End(Not run)
```

---

writeDTable	<i>Save a data frame to a .dtable file</i>
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---

**Description**

Saves the data frame to a file

**Usage**

```
writeDTable(path,data)
```

**Arguments**

path	A path name
data	A data frame

**Value**

Nothing returned

**Examples**

```
## Not run:  
writeDTable("/tmp/test",Orange)  
  
## End(Not run)
```

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