

Package 'IsisGraph'

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Type Package

Title Graphical illustration of IsisFish output files

Version 1.0

Date 2007-02-12

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Description This package provides tools to generate graphs of time series and ratio from IsisFish output files datas.

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R topics documented:

ClassDF	1
CreateDF	2
IsisGraph-package	3
IsisPlot	3
plot.Isis	6

Index	8
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ClassDF	<i>Generate objects of class 'Isis'.</i>
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Description

Converts any .csv file created by CreateDF or exported from the 'IsisGraph' interface into an 'Isis' object, and allows the writing of a .csv file that can be loaded by the interface.

Usage

```
ClassDF(PATH, NewFile = FALSE)
```

Arguments

PATH	Complete path of the .csv file to convert (without .csv file extension).
NewFile	logical. If 'TRUE', generate a 'IsisGraph' interface readable version of the .csv file in the working directory (its name is 'filenameIsis.csv').

Details

Prior .csv file is strictly formatted. It should be created from 'CreateDF' function or from the 'Save' instruction in the interface.

Value

'ClassDF' returns an object of class 'Isis'.

Author(s)

Mathieu Merzéréaud

See Also

[CreateDF,IsisPlot](#)

CreateDF	<i>'Isis' table to fill.</i>
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Description

Generate an illustrated Isis-like table to fill.

Usage

```
CreateDF(PATH)
```

Arguments

PATH	Complete path of the file to create (without .csv file extension).
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Details

WARNING: The newly filled and saved Isis-like table is not an 'Isis' object anymore. It must be converted with 'ClassDF' function.

Author(s)

Mathieu Merzéréaud

See Also

[ClassDF](#)

IsisGraph-package *Graphical illustration of IsisFish output files*

Description

This package provides tools to generate graphs of time series and ratio from IsisFish output files. It also gives the choice to use or not a friendly interface in order to create 'Isis' objects. An 'Isis' object aggregates all the information needed to make the graphs.

Details

Package: IsisGraph
Type: Package
Version: 1.0
Date: 2007-02-12
License: GPL 2 or above

Type 'library(IsisGraph)'.

Author(s)

Mathieu Merzéréaud (NO WARRANTY!!!)

Maintainer: Nobody for the moment <yourfault@somewhere.net>

Examples

```
##Not run if you have not any IsisFish output files
##Interface
IsisPlot()

##Graph creation from an 'Isis' object
##WARNING!! : creation of a directory on C:/ !!! (path can be changed)
data(IsPlotEx)
data(Biomasses1)
data(Biomasses2)
TabIs ##'Isis' object
dir.create("C:/IsisData") ##Creation of the scenarios directory
dir.create("C:/IsisData/Scenar1")
dir.create("C:/IsisData/Scenar2")
write.table(Biomasses1,file="C:/IsisData/Scenar1/Biomasses.csv",sep=";",col.names=FALSE,r
write.table(Biomasses2,file="C:/IsisData/Scenar2/Biomasses.csv",sep=";",col.names=FALSE,r
TabIs$Path <- "C:/IsisData"
plot(TabIs)
```

IsisPlot

IsisGraph Interface

Description

Displays the IsisGraph user interface. This interface contains the full set of functions available in the package.

Usage

```
IsisPlot()
```

Details

Constitutes an alternative to : 'CreateDF'/Fill the generated table/'ClassDF'/Plot.

The first required action is to choose the path of the Scenarios directory by selecting a .csv file in any Scenario file.

The displayed window is split in two parts : a multiple pull-down menus at the top, and a notebook at the bottom.

The notebook contains one sheet per graph and another one for general disposition.

Notebook buttons :

'Cible' changes the graph whose features are specified by pull-down menus. The information on the graph number is then indicated in the title of the window (e.g. GR=1)

'Ajouter Graphe' adds a configuration tab for a new graph

'Exit' close the interface

'OK' displays the graphs

Pull-down menus :

'Fichier'

'Load.csv' loads an 'Isis' table (saved from the interface or created by 'ClassDF' function)

'Save' exports datas in an 'Isis' .csv-table

'Kill' deletes a graph (and so removes the corresponding tab from the notebook)

'Quit' has the same effect as 'Exit' button

'Definir'

'Choisir Fichier(s)' allows to select files containing datas to illustrate

'Choisir Stock(s)' allows to select concerned populations

'Choisir Classe(s)' allows to select concerned classes (age)

'Choisir Zone(s)' allows to select concerned zones

'Choisir Flottille(s)' allows to select concerned fleets

'Choisir Metier(s)' allows to select concerned metiers ('none' is the priority value in the event of multiple choice and it signifies 'no distinction', 'all' is a shortcut to include all the modalities)

'*Fraction val*' defines the values scale (all values are divided by the scalar)(Type 1 only)

'*Champ d'abscisses*' defines the abscissa field (Types 2, 3 and 4 only)

'*Cumuler?*' allows to choose if ratio calculation is made punctually or cumulated (Types 2, 3 and 4 only)

'*Type de graphique*' defines graph type (as defined in 'plot.Isis' help file)

'*Ajouter Scénario*' adds a scenario to the graph

'*Eliminer Scénario*' deletes a scenario from the graph

'*Modifier Nb Pages*' defines the number of windows on which the graphs will be drawn (*Warning* : to fill before defining layout with 'Disposition' menu)

'**Spécificité**

'*Choisir Titre*' gives a title to the graph (equivalent to *main=...*)

'*Choisir Titre Abscisses*' gives a label to the abscissa axis (equivalent to *xlab=...*)

'*Choisir Titre Ordonnées*' gives a label to the ordinate axis (equivalent to *ylab=...*)

'*Echelle de temps*' defines the time interval to illustrate (in months) (Type 1 only) (**ex:** 0_119)

'*Intitulés Abscisse*' defines the field names on the abscissa axis (Types 2 and 3 only) (**ex:** name1—name2—name3)

'*Police Titre*' equivalent to *font.main=...*

'*Police Labels*' equivalent to *font.lab=...*

'*Police Axes*' equivalent to *font.axis=...*

'**TypeCourbe**

Allows to choose for each curve whether lines or points will be drawn

'**Caract**

'*Epaisseur*' equivalent to *lwd=...*

'*Type de ligne*' (only for lines) equivalent to *lty=...*

'*Type de point*' (only for points) equivalent to *pch=...*

'*Taille de point*' (only for points) equivalent to *cex=...*

'*Choix de couleur*' defines color

... for each curve.

'**Légende**

Allows to define for each curve the heading that will appear in the legend

'Disposition'

Allows to define the layout of each window/page.

At first, the 'Dimensions...' window asks for the dimensions of the layout matrix ('hauteur'=height, 'largeur'=width).

Next, click 'Definir' to fill the layout matrix, and close it.

Click 'OK' on the 'Dimensions...' window.

Check the result on 'Disposition' tab.

Author(s)

Mathieu Merzéréaud

See Also

[CreateDF](#), [ClassDF](#), [plot.Isis](#)

plot.Isis

Plotting an 'Isis' object

Description

Generate a graphical output from an object of class 'Isis'.

Usage

```
plot.Isis(DF)
```

Arguments

DF an object of class 'Isis'.

Details

For the moment, 4 kinds of graph are implemented :

Type 1. Time series

Type 2. Ratios (Final state / Initial state)

Type 3. Ratios (Scenarios / Reference scenario)

Type 4. A mix of types 2 and 3

Author(s)

Mathieu Merzéréaud

Examples

```
##WARNING!! : creation of a directory on C:/ !!! (path can be changed)
data(IsPlotEx)
data(Biomasses1)
data(Biomasses2)
TabIs ##'Isis' object
dir.create("C:/IsisData") ##Creation of the scenarios directory
dir.create("C:/IsisData/Scenar1")
dir.create("C:/IsisData/Scenar2")
write.table(Biomasses1,file="C:/IsisData/Scenar1/Biomasses.csv",sep=";",col.names=FALSE,r
write.table(Biomasses2,file="C:/IsisData/Scenar2/Biomasses.csv",sep=";",col.names=FALSE,r
TabIs$Path <- "C:/IsisData"
plot(TabIs)
```

Index

*Topic **datasets**

CreatedDF, 2

*Topic **data**

ClassDF, 1

*Topic **dplot**

plot.Isis, 6

*Topic **manip**

IsisPlot, 3

*Topic **package**

IsisGraph-package, 2

ClassDF, 1, 2, 5

CreatedDF, 2, 2, 5

IsisGraph (*IsisGraph-package*), 2

IsisGraph-package, 2

IsisPlot, 2, 3

plot.Isis, 5, 6