

Package ‘CityPlot’

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Type Package

Title Visualization of structure and contents of a database

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Author Martin Dugas

Maintainer Martin Dugas <dugas@uni-muenster.de>

Description Input: a csv-file for each database table and a controlfile describing relations between tables. Output: An extended ER diagram

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CityPlot-package	<i>CityPlot</i>
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Description

see function CityPlot

Author(s)

Martin Dugas
 Maintainer: Martin Dugas <dugas@uni-muenster.de>

References

see function CityPlot

CityPlot

CityPlot

Description

CityPlot generates an extended version of a traditional entity-relationship diagram for a database. It provides a combined view of database structure and contents.

The graphical output applies the metaphor of a city (that's why it's called CityPlot):

Each entity corresponds to a building, relationships between entities correspond to the underground distribution network of a city.

The size of an entity box is adjusted according to available database contents for this entity:

Wide boxes represent entities with many attributes, high boxes represent entities with many records.

Each available data point is represented by a colored small spot within the corresponding entity box.

Each column of spots corresponds to a certain attribute and is colored according to its data type.

Numeric data points are colored in blue, categorical in green, date/time in yellow (time: light yellow, date: dark yellow), others in red. White spots correspond to missing data.

Input: A csv-file for each database table and a controlfile describing relations between tables (see examples)

Output: An extended ER diagram

Usage

```
CityPlot(controlfile = "", pdfmode = "", shownames=T)
```

Arguments

controlfile	File name of controlfile describing database tables and their relations. File format: see examples. If omitted, file.choose()-dialog is started
pdfmode	value "y" or "Y": graphical output as pdf-file
shownames	value T or F: display names of entities

Author(s)

Martin Dugas (dugas@uni-muenster.de)

References

CityPlot: colored ER diagrams to visualize structure and contents of databases (manuscript submitted)

Examples

```
## Not run:  
CityPlot(controlfile=file.path(path.package("CityPlot"), "extdata", "ER_control.txt"))  
  
## End(Not run)
```

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