

# DBTableViewPrinter

**Inherits From:** View : Object  
**Declared In:** DBTableViewPrinter.h

## Class Description

DBTableViewPrinter is a class which nicely formats and prints DBTableViews. Typically, DBTableViewPrinter is not instantiated directly, but rather automatically when a TablePrinter class is instantiated. DBTableViewPrinter is for printing only, and therefore was designed to reside in an off screen view. None-the-less, once properly instantiated, it can be messaged to set and change formatting parameters.

## Required Usage of TablePrintPanel

The TablePrintPanel object included with TablePrinter Palette is a subclass of PrintPanel which allows the setting of pages per row, so that it can adjust the total

pages sent to the printer to reflect compound pages. For instance, if you ask to print from 2 to 2 on a table that is three pages wide, It will set PrintInfo to print 4 through 6. **It is essential that TablePrintPanel be the first PrintPanel referenced anywhere in an application which uses a DBTableViewPrinter.** This is because an Application only has one PrintPanel object. If the regular PrintPanel object gets referenced (and subsequently loaded) first by another place in an application, then attempts by DBTableViewPrinter to message TablePrintPanel will fail. If TablePrintPanel is loaded first, all other references to PrintPanel will work without a hitch, as if there were no change. A simple message like:

```
[TablePrintPanel new];
```

in the `± appDidInit:` method will solve this problem.

## Instance Variables

```
BOOL isPrinting;  
BOOL isPageNumbersEnabled;  
BOOL isRowNumbersEnabled;  
BOOL isSelectedRowsOnly;  
BOOL isGridLinesOn;  
BOOL isForceDrawColor;  
id tableView  
id columnList;  
id headerTextCell;  
id pageNumberCell;  
id rowNumberHeaderCell;  
id rowNumberCell;
```

```
char pageNumSepChar;  
char rowNumberHeaderTitle[51];  
NXRect pageFrame;  
NXRect theRect;  
NXCoord rowHeight;  
NXCoord pageHeight;  
NXCoord pageAdvanceOffset;  
NXCoord pageNumberHeight;  
NXCoord rowNumberedWidth;  
NXSize headerTextCellSize;  
NXSize pageNumberCellSize;  
NXSize rowNumberHeaderCellSize;;  
NXColor gridColor;  
NXColor backgroundColor;  
NXColor rowNumbersBackColor;  
int maxColumns;  
int maxRows;  
int maxRowsPerPage;  
int pagesPerRow;  
int startingPageNumber;  
int startingRowNumber;
```

|                             |   |
|-----------------------------|---|
| <b>isPrinting</b>           | Tells drawself: to only draw if printing. |
| <b>isPageNumbersEnabled</b> | Page numbering flag.                      |
| <b>isRowNumbersEnabled</b>  | Row numbering flag.                       |
| <b>isSelectedRowsOnly</b>   | Print selected rows only flag.            |

|                          |  |
|--------------------------|--|
| isGridLinesOn            | Print grid lines flag.                       |
| isForceDrawColor         | Always try to render color flag.             |
| tableView                | The DBTableView to be printed.               |
| columnList               | List object of DBTableView columns.          |
| headerTextCell           | TextFieldCell for column headers.            |
| pageNumberCell           | TextFieldCell for page numbers.              |
| rowNumberHeaderCell      | TextFieldCell for row number column headers. |
| rowNumberCell            | TextFieldCell for row numbers.               |
| pageNumSepChar           | Separator for compound page numbers.         |
| rowNumberHeaderTitle[51] | Row number columns header title string.      |
| pageFrame                | Size of page.                                |
| theRect                  | Size of main draw rectangle.                 |
| rowHeight                | Height of a row.                             |
| pageHeight               | Height of a page.                            |
| pageAdvanceOffset        | Length to advance draw point to next page.   |

|                         |  |
|-------------------------|--|
| pageNumberHeight        | Height of a page number.                           |
| rowNumberedWidth        | Width of row number field.                         |
| headerTextCellSize      | Initial size of the column header Cell.            |
| pageNumberCellSize      | Initial size of the page number Cell.              |
| rowNumberHeaderCellSize | Initial size of the row number column header Cell. |
| gridColor               | Grid color.  |
| backgroundColor         | Background color of page.                          |
| rowNumbersBackColor     | Background color of row numbers                    |
| maxColumns              | Number of columns in the DBTableView.              |
| maxRows                 | Number of rows ro be printed.                      |
| maxRowsPerPage          | Number of rows which will fit on one page.         |
| pagesPerRow             | Number of compound pages per row.                  |
| startingPageNumber      | Number to print on first page.                     |
| startingRowNumber       | Number to print on first row.                      |

## Method Types

Initializing and freeing

± initWithFrame:  
± free

DBTableView access

± setTableView:  
± tableView

Printing

± printPSCode:

Page Numbering

± setPageNumbersEnabled:  
± isPageNumbersEnabled  
± setStartingPageNumber:  
± startingPageNumber  
± setPageNumberSeparator:  
± pageNumberSeparator

Row Numbering

± setRowNumbersEnabled:  
± isRowNumbersEnabled  
± setStartingRowNumber:  
± startingRowNumber  
± setRowNumbersTitle:  
± rowNumbersTitle

Grid Lines

± setGridLinesOn:  
± isGridLinesOn

Column Header Bezeling

± setColumnHeadersBezeled:  
± isColumnHeadersBezeled

## Selection

- ± setSelectedRowsOnly:
- ± isSelectedRowsOnly

## Setting Colors

- setForceDrawColor:
- ± isForceDrawColor
- ± setColumnHeadersTextColor:
- ± columnHeaderTextColor
- ± setColumnHeadersBackColor:
- ± columnHeaderBackColor
- ± setRowNumbersTextColor:
- ± rowNumbersTextColor
- ± setRowNumbersBackColor:
- ± rowNumbersBackColor
- ± setGridLinesColor:
- ± gridLinesColor
- ± setPageNumberColor:
- ± pageNumberColor
- ± setBackgroundColor:
- ± backgroundColor

## Archiving

- read:
- write:

## Instance Methods

### **backgroundColor**

- ± (NXColor)**backgroundColor**

Returns the color used for printing the background.

**See also:** - **setBackgroundColors:**

**columnHeadersBackColor**

$\pm$  (NXColor)**columnHeadersBackColor**

Returns the color used for printing the column headers background.

**See also:** - **setColumnHeadersBackColor:**

**columnHeadersTextColor**

$\pm$  (NXColor)**columnHeadersTextColor**

Returns the color used for printing the column headers text.

**See also:** - **setColumnHeadersTextColor:**

**free**

- **free**

Frees the instance variables, the DBTableViewPrinter it manages, and itself.

**gridLinesColor**

$\pm$  (NXColor)**gridLinesColor**

Returns the color used for printing grid lines.



**See also:** - **setGridLinesColor:**

**initWithFrame:**

- **initWithFrame:**(const NXRect \*)*frameRect*

Initializes the DBTableViewPrinter, which must be a newly allocated instance. The DBTableViewPrinter's frame rectangle is made equivalent to that pointed to by *frameRect*. This method is the designated initializer for the DBTableViewPrinter class. Returns **self**.

**isColumnHeadersBezeled**

± (BOOL)**isColumnHeadersBezeled**

Returns whether or not the DBTableViewPrinter will print column headers with bezeled borders.

**See also:** - **setSelectedRowsOnly:**

**isForceDrawColor**

± (BOOL)**isForceDrawColor**

Returns whether DBTableViewPrinter will render for a color device regardless of the chosen device.

**See also:** ± **setForceDrawColor:**

**isGridLinesOn**

$\pm$  (BOOL)**isGridLinesOn**

Returns whether the printing of grid lines is enabled.

**See also:** - **setGridLinesOn:**

**isPageNumbersEnabled**

$\pm$  (BOOL)**isPageNumbersEnabled**

Returns whether the printing of page numbers is enabled.

**See also:** - **setPageNumbersEnabled:**

**isRowNumbersEnabled**

$\pm$  (BOOL)**isRowNumbersEnabled**

Returns whether the printing of row numbers is enabled.

**See also:** - **setRowNumbersEnabled:**

**isSelectedRowsOnly**

$\pm$  (BOOL)**isSelectedRowsOnly**

Returns whether the printing of only selected rows is enabled.

**See also:** - **setSelectedRowsOnly:**

### **pageNumberColor**

$\pm$  (NXColor)**pageNumberColor**

Returns the color used for printing page numbers.

**See also:** - **setPageNumberColor:**

### **pageNumberSeparator**

$\pm$  **pageNumberSeparator**

Returns the character used to separate page numbers on compound pages.

**See also:** - **setPageNumbersEnabled:**,  $\pm$  **setPageNumberSeparator:**

### **printPSCode:**

- **printPSCode:***sender*

This method prints the DBTableView set by **setTableView:.** It acts just like View's definition of **printPSCode:.**

**See also:** - **setTableView:**,  $\pm$  **printPSCode:** (View)

### **read:**

- **read:**(NXTypedStream \*)stream

Unarchives a DBTableViewPrinter instance from *stream*.

**rowNumbersBackColor**

$\pm$  (NXColor)**rowNumbersBackColor**

Returns the color used for printing the row numbers background.

**See also:** - **setRowNumbersBackColor:**

**rowNumbersTextColor**

$\pm$  (NXColor)**rowNumbersTextColor**

Returns the color used for printing the row numbers text.

**See also:** - **setRowNumbersTextColor:**

**rowNumbersTitle:**

$\pm$  (char \*)**rowNumbersTitle**

Returns a pointer to the row numbers column header string.

**See also:** - **setRowNumbersEnabled:**,  $\pm$  **setRowNumbersTitle:**

**setBackgroundColor:**

$\pm$  **setBackgroundColor:**(NXColor)*color*

Sets the color of the background to *color*. The default is NX\_COLORWHITE.

Returns **self**.

**See also:** - **backgroundColor**

**setColumnHeadersBackColor:**

± **setColumnHeadersBackColor:**(NXColor)*color*

Sets the color of the column headers background to *color*. The default is NX\_COLORDKGRAY. Returns **self**.

**See also:** - **columnHeadersBackColor**

**setColumnHeadersBezeled:**

± **setColumnHeadersBezeled:**(BOOL)*toggle*

If *toggle* is YES, DBTableViewPrinter will print column headers with bezeled borders. The default is NO. Returns **self**.

**See also:** - **isColumnHeadersBezeled**

**setColumnHeadersTextColor:**

± **setColumnHeadersTextColor:**(NXColor)*color*

Sets the color of the column headers text to *color*. The default is NX\_COLORWHITE. Returns **self**.

**See also:** - **columnHeadersTextColor**

**setForceDrawColor:**

**± setForceDrawColor:(BOOL)*toggle***

If *toggle* is YES, DBTableViewPrinter will always render output for a color device, regardless of the device. The default is NO, meaning that if a B & W printer is chosen, DBTableViewPrinter will convert to gray scale. Returns **self**.

**See also:** - **isForceDrawColor**

**setGridLinesColor:**

**± setGridLinesColor:(NXColor)*color***

Sets the color of the grid lines to *color*. The default is NX\_COLORBLACK. Returns **self**.

**See also:** - **gridLinesColor**, **± setGridLinesOn:**

**setGridLinesOn:**

**± setGridLinesOn:(BOOL)*toggle***

If *toggle* is YES, DBTableViewPrinter will print grid lines between rows and columns. The default is NO. Returns **self**.

**See also:** - **isGridLinesOn**

**setPageNumberColor:**

**± setPageNumberColor:**(NXColor)*color*

Sets the color of page numbers to *color*. The default is NX\_COLORBLACK. Returns **self**.

**See also:** - **pageNumberColor**, **± setPageNumbersEnabled:**

**setPageNumberSeparator:**

**± setPageNumberSeparator:**(char)*sepChar*

Sets the character used to separate page numbers on compound pages. The default character is '-'. For example, if the printing of page numbers is enabled, *and* the tableView is wider than one printed page, then DBTableViewPrinter will number compound pages like 1-1, 1-2, 1-3, etc. Returns **self**.

**See also:** - **setPageNumbersEnabled:**, **± pageNumberSeparator**

**setPageNumbersEnabled:**

**± setPageNumbersEnabled:**(BOOL)*toggle*

If *toggle* is YES, DBTableViewPrinter will print a page number on each printed page. The default is NO. Returns **self**.

**See also:** - **isPageNumbersEnabled**

**setRowNumbersEnabled:**

**± setRowNumbersEnabled:(BOOL)*toggle***

If *toggle* is YES, DBTableViewPrinter will print row numbers on each printed page. The default is NO. Returns **self**.

**See also:** - **isRowNumbersEnabled**

**setRowNumbersBackColor:**

**± setRowNumbersBackColor:(NXColor)*color***

Sets the color of the row numbers background to *color*. The default is NX\_COLORWHITE. Returns **self**.

**See also:** - **rowNumbersBackColor**, **± setRowNumbersEnabled:**

**setRowNumbersTextColor:**

**± setRowNumbersTextColor:(NXColor)*color***

Sets the color of the row numbers text to *color*. The default is NX\_COLORBLACK. Returns **self**.

**See also:** - **rowNumbersTextColor**, **± setRowNumbersEnabled:**

**setRowNumbersTitle:**

**± setRowNumbersTitle:(char \*)*title***

Sets the title of the column header for the row numbers to *title*. The default is "#". Returns **self**.



**See also:** - **setRowNumbersEnabled:**, **± rowNumbersTitle**

**setSelectedRowsOnly:**

**± setSelectedRowsOnly:**(BOOL)*toggle*

If *toggle* is YES, DBTableViewPrinter will print only rows which have been selected in the tableView. The default is NO, meaning all rows will be printed. Returns **self**.

**See also:** - **isSelectedRowsOnly**

**setStartingPageNumber:**

**± setStartingPageNumber:**(int)*number*

If printing of page numbers is enabled, DBTableViewPrinter will begin numbering pages starting with *number*. The default is 1. Returns **self**.

**See also:** - **setPageNumbersEnabled:**, **± startingPageNumber**

**setStartingRowNumber:**

**± setStartingRowNumber:**(int)*number*

If printing of row numbers is enabled, DBTableViewPrinter will begin numbering rows starting with *number*. The default is 1. Returns **self**.

**See also:** - **setRowNumbersEnabled:**, **± startingRowNumber**

**setTableView:**

± **setTableView:***tableView*

Sets the DBTableView to be printed to *tableView*. Returns **self**.

**See also:** - **tableView**

**startingPageNumber**

± (int)**startingPageNumber**

Returns the value used as the printed starting page number.

**See also:** - **setPageNumbersEnabled:**, ± **setStartingPageNumber:**

**startingRowNumber**

± (int)**startingRowNumber**

Returns the value used as the printed starting row number.

**See also:** - **setRowNumbersEnabled:**, ± **setStartingRowNumber:**

**tableView**

± **tableView**

Returns the DBTableView to be printed or **nil** if not set.

**See also:** - **setTableView:**

**write:**

- **write:**(NXTypedStream \*)stream

Archives a DBTableViewPrinter instance to *stream*.