

# ScrollDir

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## Overview

This program demonstrates the use of MiscTableScroll object in *eager* mode by acting as a simple directory browser. Basic operations such as *open*, *delete*, and *change directory* can be performed on the listed files and directories.

## Notable Features

### Eager Mode

This example uses an *eager* mode MiscTableScroll which creates and fills all cells immediately. This differs from a *lazy* mode MiscTableScroll where the data-delegate is responsible for managing the cells. *Eager* mode is useful for fairly small data sets and data sets for which data retrieval time is small. *Eager* mode is usually easier to program than *lazy* mode.

### Color

The example shows how cells can inherit color from the MiscTableScroll itself, as well as maintain their own colors independently. Color swatches can be dragged from the *Color Panel* and dropped onto the browser window. The background of the MiscTableScroll is set to the color of the dropped swatch. All cells which inherit their color from the MiscTableScroll *implicitly* take the same

background color. All cells which have had their color set *explicitly* retain their own color.

The *highlight directories* switch on the browser window demonstrates that cells can maintain their own colors instead of inheriting them. When toggled *on* the rows for directories are highlighted in a color independent of the MiscTableScroll.

**Font**

When the MiscTableScroll is first-responder, the *Font Panel* can be used to change its font. Cells which inherit their font from the MiscTableScroll display the newly selected font.

**Users Preferences**

This program demonstrates how to save and restore the user's column order and width preferences. Additionally, all other user preferences -- *font, color, switch settings, and window size* -- are also saved and restored.

**Icon Display**

One column in the browser displays the file's icon. This demonstrates how to use *icon* columns in addition to *text* columns.

**Sorting**

A switch on the browser window controls whether or not rows are automatically sorted as columns are rearranged. This demonstrates the very powerful built-in sorting capability of MiscTableScroll. Sorting can be fine-tuned right in the *nib* file by adjusting the criteria on a column-by-column basis. For instance, columns may contribute *stringValue, title, intValue, tag*, etc. to the row-wise comparisons.

# **Name Caching**

NetInfo is notoriously slow. Translation of user and group numbers into their text equivalents is sped up by caching the results of calls to *getpwuid* and *getgrgid* (both of which ultimately consult NetInfo).