PAFilenameList

Inherits From: PAStringList : Storage : Object

Declared In: PAFilenameList.h

Class Description

The PAFilenameList (a subclass of PAStringList) is a convenient way to deal with lists of filenames. It contains methods for generating lists of filenames from given directories. There is also a specific method for searching the standard libraries (/NextLibrary, /LocalLibrary, ~/Libary). Files can be limited to particular extensions and can be returned with or without their full path and extension.

To use this object inside of InterfaceBuilder, simply drag its icon from the palettes window into the suitcases window. Then drag in a browser and set its delegate to be the filenameList. Then enter something like "Fonts" in the libraries textfield or "/NextLibrary/Documentation" in the directories textfield, type in an extension if you like(font, slo, rtf, etc...) and test interface.

paste.tiff ¬
Palettes Window

934968_paste.tiff ¬

Example inspector

625876_paste.tiff ¬

Resulting Browser(set filename list to be its delegate)

Instance Variables

```
char    *plLibs;                    // Libary directories to be preloaded
char    *plDirs;                    // Directories to be preloaded
char    *plExts;                    // Extensions to be preloaded
BOOL    plFromAppDir;               // Whether to preload from the AppWrapper
BOOL    plFromBundleDir;            // Whether to preload from this bundle
BOOL    plStripPath, plStripExt;    // Whether to strip paths & ext from files
BOOL    plIfAbsent, plSorted;       // Whether to 'add if absent' and sort
```

Method Types

```
// Adding filenames
- addFilename:(const char *)filename stripPath:(BOOL)stripPath
      stripExt:(BOOL)stripExt ifAbsent:(BOOL)ifAbsent noCopy:(BOOL)noCopy
      sorted:(BOOL)sorted at:(int)at;

// Adding arrays of filenames or another PAFilenameList
- addFilenames:(const char *const*)filenames stripPath:(BOOL)stripPath
      stripExt:(BOOL)stripExt ifAbsent:(BOOL)ifAbsent noCopy:(BOOL)noCopy
```

```
    sorted:(BOOL)sorted at:(int)at;
- addPAFilenameList:filenameListObject stripPath:(BOOL)stripPath
    stripExt:(BOOL)stripExt ifAbsent:(BOOL)ifAbsent noCopy:(BOOL)noCopy
    sorted:(BOOL)sorted at:(int)at;

// Adding individual filenames from delimited (tab or otherwise) string
- addDelimitedFilenames:(const char *)string delimiters:(const char *)dels
    stripPath:(BOOL)stripPath stripExt:(BOOL)stripExt ifAbsent:(BOOL)ifAbsent
    sorted:(BOOL)sorted at:(int)at;

// Adding filenames from directories
- addFilenamesFromDirectories:(const char *)dirs withExts:(const char *)exts
    stripPath:(BOOL)stripPath stripExt:(BOOL)stripExt ifAbsent:(BOOL)ifAbsent
    sorted:(BOOL)sorted at:(int)at;
- addFilenamesFromStandardLibrariesDirectories:(const char *)dirs
    withExts:(const char *)exts stripPath:(BOOL)stripPath
    stripExt:(BOOL)stripExt ifAbsent:(BOOL)ifAbsent sorted:(BOOL)sorted
    at:(int)at;

// Sorting Strings
- sortFilenamesIgnoringPath:sender;
int filenameCmp(const void *s1, const void *s2);

// Preloading strings
- (const char *)preLoadLibraries;
- setPreLoadLibraries:(const char *)libraries;

- (const char *)preLoadDirectories;
```

```
    - setPreLoadDirectories:(const char *)directories;

    - (const char *)preLoadExtensions;
    - setPreLoadExtensions:(const char *)extensions;

    - (BOOL)preLoadFromAppDir;
    - setPreLoadFromAppDir:(BOOL)flag;

    - (BOOL)preLoadFromBundleDir;
    - setPreLoadFromBundleDir:(BOOL)flag;

    - (BOOL)preLoadStripPath;
    - setPreLoadStripPath:(BOOL)flag;

    - (BOOL)preLoadStripExt;
    - setPreLoadStripExt:(BOOL)flag;

    - (BOOL)preLoadIfAbsent;
    - setPreLoadIfAbsent:(BOOL)flag;

    - (BOOL)preLoadSorted;
    - setPreLoadSorted:(BOOL)flag;

    // Archiving
    - write:(NXTypedStream *)stream;
- read:(NXTypedStream *)stream;
```

Instance Methods

addFilename:(char *)filename stripPath:(BOOL)stripPath stripExt:(BOOL)stripExt ifAbsent:(BOOL)ifAbsent noCopy:(BOOL)noCopy sorted:(BOOL)sorted at:(int)at

This method adds the given filename to the list of strings giving the option to strip the path and/or the extension. It simply does the requested strips and calls addString:ifAbsent:noCopy:sorted:at:(PAStringList). Returns the value of that method (self).

addFilenames:(char **)filenames stripPath:(BOOL)stripPath ...
addPAFilenameList:filenameList stripPath:(BOOL)stripPath...

These methods allow for lists of strings to be added as filenames (with or without their full paths and extensions).

addFilename: adds filenames from a NULL terminated array of char pointers. Returns self.

addPAFilenameList: add filenames from a PAFilenameList. Returns self.

addFilenamesFromDirectories:withExts:

addFilenamesFromDirectories looks out in the directories specified for files with the given extensions (NULL for all files) and adds them to the list. 'directory' is a delimited list of directories and 'ext' is a delimited list of extensions. Assumed delimiters are space, tab, newline, return, colon and comma (' ', '\t', '\n', '\r', ':', ',', '\0'). Returns self.

addFilenamesFromStandardLibrariesDirectory goes a step farther and looks in /NextLibary, /LocalLibrary and ~/Libary for the given directories. This is a convenience for the cases where an app searches the standard libraries. Returns self.

addDelimitedFilenames:delimiters:stripPath:stripExt:ifAbsent:sorted:at:at

This method is just like addDelimitedStrings: but it allows the filnames to be stripped of their paths and/or extensions before being added. Returns self.

sortFilenameIgnoringPath:

sortFilenamesIgnoringPath: is just like sortStrings except that the full paths are stripped from the file before it is compared. This is useful for cases where you want the files to be in alphabetical order regardless of their full path, while preserving the full path. Returns self.

(const char *)preLoadLibraries, setPreLoadLibraries:(const char *)libs
(const char *)preLoadDirectories, setPreLoadDirectories:(const char *)dirs
(const char *)preLoadExtensions, setPreLoadExtensions:(const char *)exts
(BOOL)preLoadFromAppDir, setPreLoadFromAppDir:(BOOL)flag
(BOOL)preLoadFromBundleDir, setPreLoadFromBundleDir:(BOOL)flag
(BOOL)preLoadStripPath, setPreLoadStripPath:(BOOL)flag
(BOOL)preLoadStripExt, setPreLoadStripExt:(BOOL)flag
(BOOL)preLoadIfAbsent, setPreLoadIfAbsent:(BOOL)flag
(BOOL)preLoadSorted, setPreLoadSorted:(BOOL)flag

These methods query and set search paths, extensions and flags to preload the string list when unarchived. This allows for an InterfaceBuilder palette to set the StringList to load interesting things when unarchived (ie, "get all of the files of type 'font' from the standard library directory 'Fonts' ").