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Georg Tuparev -- 11.12.1994.

# MiscDirectory

**Inherits From:** Object

**Declared In:** MiscDirectory.h

## Class Description

This class is in very preliminary stage. The idea and the first version of the class are from Simson Garfinkel. I slightly modified the source and added a new sort method (currently sorting only by name). This class may be used separately from all other classes included in the current version of MiscKit. That's the reason, why all the methods return values from type *const char \** and no *MiscString*. Returning *MiscString* is in general bad idea for low level classes, so in the future, I will keep the return values unchanged.

### Note:

- Do not use the init method! Use only `initWithDirectory`:
- I had no time to test all methods. Especially this is true for the archiving methods. Please report any bugs and suggestions to <tuparev@embl-heidelberg.de>

- The next version of the class may use the *MiscFile* class by Todd Thomas. This can lead to more or less drastically changes.

### **TO DO!**

The next version of the class will include the following new features:

- sorting by different criteria (name, date, size, owner, ...)
- updating
- file attributes (all the ugly stuff in the *stat* structure)

## **Instance Variables**

List \*  
int  
char \*  
char \*

**fileNameList;**  
**currentEntry;**  
**dirName;**  
**filetype;**

fileNameList

List containing all directory entries.

currentEntry

Pointer (index) of the current directory entry.

dirName

Full directory path.

filetype

Current file extension type.

## Method Types

Initializing the class	+€initialize
Creating and freeing instances	±€init ±€free
Setting global behavior	±€setFileType: ±€sortDir
Information about current entry	±€entry ±€extension ±€fullPathName
Movement	±€nextEntry ±€rewind
Information about directory	±€matchingEntries
Archiving a MiscDirectory	± read: ± write:

## Class Methods

**initialize**  
+ **initialize**

Initializes the class instance doing things like setting the version number.

**See also:** -€initialize (Object)

## Instance Methods

**entry**  
- (const char \*)**entry**

Returns the current entry (with extension) or NULL.

**See also:** -€nextEntry, -€fullPathName, -€extension

**extension**  
- (const char \*)**extension**

Returns the current entry's extension or NULL.

**See also:** -€nextEntry, -€fullPathName, -€entry

**free**  
- **free**

Frees the MiscDirectory object.

**See also:** `-free` (Object)

### **fullPathName**

- (const char \*)**fullPathName**

Returns the full path of the current entry (with extension) or NULL.

**See also:** `-nextEntry`, `-fullPathName`, `-entry`

### **initForDirectory**

- **initForDirectory**:(const char \*)*dirname*

Initializes the directory object.

**See also:** `-initialize` (Object)

### **matchingEntries**

- (int)**matchingEntries**

Returns the number of entries in the directory object.

### **nextEntry**

- (const char \*)**nextEntry**

Increments the directory pointer to the next entry with matching file extension (if possible) and returns the new directory entry or NULL.

**See also:** `-entry`, `-fullPathName`, `-extension`, `-rewind`, `-setFileType`

## **read**

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

Reads the object from the typed stream.

**See also:** -€**read:** (Object)

## **rewind**

- **rewind**

Rewind the directory. The current entry (the first in the list) may have an extension different then the one, set by the **setFileType:** method. This behavior will be fixed in the next version

**See also:** -€**nextEntry**

## **setFileType**

- **setFileType:**(const char \*)*filetype*

Sets the search file extension.

**See also:** -€**initialize** (Object)

## **sortDir**

- **sortDir**

Sorts the directory by name

**See also:** -€**initialize** (Object)

**write**

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

Writes the object to the typed stream.

**See also:** -€**write** (Object)