mac_alias Documentation

Release 1.0.0

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This document refers to version 1.0.0

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CHAPTER 1

What is this?

The Mac OS has a special data structure it calls an Alias, which allows programs that make use of it to locate the file to which it refers more reliably than they would be able to from e.g. a filename alone.

The format of this structure is not documented, so until recently you would have used Mac OS X APIs to construct and process Alias records. Sadly, Apple has deprecated the APIs in question in favour of its new "Bookmark" functionality; this is understandable, but it makes it tricky to construct an Alias record reliably in future.

This module contains code to parse and generate Alias records from a Pythonic equivalent data structure, and does not rely on the deprecated APIs.

Usage

To parse an Alias record given binary data:

```
from mac_alias import Alias
a = Alias.from_bytes(my_data)
To generate a binary Alias record:
a.to_bytes()
Finally, to build an Alias for a file:
Alias.for_file('/path/to/file.ext')
```

It's probably best to resist the temptation to mess with the Alias class too much otherwise.

6 Chapter 2. Usage

Code Documentation

Contents:

3.1 mac_alias package

3.1.1 Classes

```
class mac_alias.Alias (appinfo='x00x00x00x00', version=2, volume=None, target=None, extra=[])
     appinfo = None
          Application specific information (four byte byte-string)
     extra = None
          A list of extra (tag, value) pairs
     classmethod for_file (path)
          Create an Alias that points at the specified file.
     classmethod from_bytes (bytes)
          Construct an Alias object given binary Alias data.
     target = None
          A TargetInfo object describing the target
     to_bytes()
          Returns the binary representation for this Alias.
     version = None
          Version (we support only version 2)
     volume = None
          A VolumeInfo object describing the target's volume
class mac_alias.AppleShareInfo (zone=None, server=None, user=None)
     server = None
          The AFP server
     user = None
          The username
```

zone = None

The AppleShare zone

carbon_path = None

The Carbon path of the target (optional)

cnid = None

The CNID (Catalog Node ID) of the target

cnid_path = None

The path from the volume root as a sequence of CNIDs. (optional)

creation_date = None

The target's creation date.

creator_code = None

The target's Mac creator code (a four-character binary string)

filename = None

The filename of the target

folder cnid = None

The CNID (Catalog Node ID) of the target's containing folder; CNIDs are similar to but different than traditional UNIX inode numbers

folder name = None

The (POSIX) name of the target's containing folder. (optional)

kind = None

Either ALIAS_KIND_FILE or ALIAS_KIND_FOLDER

levels_from = None

The depth of the alias? Always seems to be -1 on OS X.

levels to = None

The depth of the target? Always seems to be -1 on OS X.

posix_path = None

The POSIX path of the target relative to the volume root. Note that this may or may not have a leading '/' character, but it is always relative to the containing volume. (optional)

type_code = None

The target's Mac type code (a four-character binary string)

user_home_prefix_len = None

If the path points into a user's home folder, the number of folders deep that we go before we get to that home folder. (optional)

3.1.2 Constants

mac_alias.ALIAS_KIND_FILE

mac_alias.ALIAS_KIND_FOLDER

Values for the kind attribute.

mac_alias.ALIAS_HFS_VOLUME_SIGNATURE

The volume signature for HFS+.

mac_alias.ALIAS_FIXED_DISK

mac_alias.ALIAS_NETWORK_DISK

mac_alias.ALIAS_400KB_FLOPPY_DISK

mac_alias.ALIAS_800KB_FLOPPY_DISK

mac_alias.ALIAS_1_44MB_FLOPPY_DISK

 $\verb|mac_alias.ALIAS_EJECTABLE_DISK| \\$

Disk type constants.

$\verb"mac_alias.ALIAS_NO_CNID"$

A constant used where no CNID is present.

CHAPTER 4

Indices and tables

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