```
FMPasteBox.py
  #
  #
     FMPasteBox.py
  #
     FMPasteBox
   #
 5
  import objc
   import Foundation
   import AppKit
10 from PyObjCTools import AppHelper
   import FMPasteBoxAppDelegate
   if __name__ == '__main__':
15
       AppHelper.runEventLoop()
   FMPasteBoxAppDelegate.py
  #
    FMPasteBoxAppDelegate.py
  #
     FMPasteBox 5 4 1
  #
 5
   import sys
   import os
   import pprint
10 pp = pprint.pprint
   import pdb
   kwlog = True
15 import objc
   import Foundation
  NSObject = Foundation.NSObject
  NSMutableDictionary = Foundation.NSMutableDictionary
20 NSData = Foundation.NSData
  import AppKit
  NSWindowController = AppKit.NSWindowController
  NSApplication = AppKit.NSApplication
25 NSUserDefaults = AppKit.NSUserDefaults
  NSMutableAttributedString = AppKit.NSMutableAttributedString
  NSBeep = AppKit.NSBeep
  NSPasteboard = AppKit.NSPasteboard
30 import FMPasteBoxTools
   read_pb = FMPasteBoxTools.read_pb
  makeunicode = FMPasteBoxTools.makeunicode
   fmpPasteboardTypes = FMPasteBoxTools.fmpPasteboardTypes
   additionalFMPPasteboardTypes = FMPasteBoxTools.additionalFMPPasteboardTypes
35 displaynameTypes = FMPasteBoxTools.displaynameTypes
  datetimestamp = FMPasteBoxTools.datetimestamp
   import FMPasteBoxVersion
40 import FMPasteBoxPrefController
```

PrefController = FMPasteBoxPrefController.FMPasteBoxPreferenceController

class FMPasteBoxAppDelegate(NSObject):

```
45
        menClipboardtype = objc.IBOutlet()
        butGetClipboard = objc.IBOutlet()
        butPushClipboard = objc.IBOutlet()
        tfXMLEditor = objc.IBOutlet()
       appWindow = objc.IBOutlet()
50
        def initialize(self):
            if kwlog:
                print "FMPasteBoxAppDelegate.initialize()"
            userdefaults = NSMutableDictionary.dictionary()
            userdefaults.setObject_forKey_(u"", u'txtFileMakerAppPath')
55
            userdefaults.setObject_forKey_(u"", u'txtExportsPath')
            userdefaults.setObject_forKey_(False, u'cbDoExports')
            NSUserDefaults.standardUserDefaults().registerDefaults_(userdefaults)
            self.preferenceController = None
60
        def awakeFromNib(self):
            # for later
            defaults = NSUserDefaults.standardUserDefaults()
65
            # set up type menu
            self.menClipboardtype.removeAllItems()
            menuItems = [ u"" ]
            menuItems.extend( displaynameTypes.keys() )
            menuItems.sort()
70
            for menuItem in menuItems:
                self.menClipboardtype.addItemWithTitle_( menuItem )
            self.menClipboardtype.setTitle_( u"" )
            # set up text view
            self.tfXMLEditor.setUsesFindPanel_(True)
75
            window = self.tfXMLEditor.window()
            window.makeFirstResponder_(self.tfXMLEditor)
        def applicationDidFinishLaunching_(self, notification):
            app = NSApplication.sharedApplication()
80
            app.activateIgnoringOtherApps_(True)
            window = self.tfXMLEditor.window()
            window.makeFirstResponder_(self.tfXMLEditor)
        @objc.IBAction
85
        def getClipboard_(self, sender):
            pasteboardContents = read_pb()
            if not pasteboardContents:
                # abort - nothing on pasteboard
90
                # we must return implicit None! Crashing otherwise.
            defaults = NSUserDefaults.standardUserDefaults()
            exportClipboards = defaults.boolForKey_( u'cbDoExports' )
            if exportClipboards:
95
                exportFolder = makeunicode(defaults.objectForKey_( u'txtExportsPath' ))
                if os.path.exists( exportFolder ):
                    d,t = FMPasteBoxTools.datetimestamp()
                    dayFolder = os.path.join( exportFolder, d )
                    sessionFolder = os.path.join( dayFolder, t)
100
                        exportItems = pasteboardContents.additionals[:]
                        exportItems.append( pasteboardContents )
                        for item in exportItems:
                            if not os.path.exists( sessionFolder ):
105
                                os.makedirs( sessionFolder )
                            name = item.typ.name
                            ext = item.typ.fileExt
```

```
data = item.data
                            path = os.path.join( sessionFolder, name + ext )
                            if ext == ".xml":
110
                                data = makeunicode( data )
                                data = data.encode( "utf-8" )
                            f = open(path, 'w')
                            f.write( data )
115
                            f.close()
                    except Exception, err:
                        print
                        print "ADDITIONALS FAILED"
                        print err
120
                        print
            pbType = pasteboardContents.typ
            pbTypeName = pbType.name
            self.menClipboardtype.setTitle_( pbTypeName )
            {\tt self.tfXMLEditor.setString\_(\ makeunicode(\ pasteboardContents.data\ )\ )}
125
            window = self.tfXMLEditor.window()
            window.makeFirstResponder_(self.tfXMLEditor)
        def textView(self):
            # model
130
            return makeunicode( self.tfXMLEditor.string() )
        @objc.IBAction
        def pushClipboard_(self, sender):
            # get text view data
135
            data = makeunicode(self.textView())
            data = data.encode("utf-8")
            l = len(data)
            nsdata = NSData.dataWithBytes_length_(data, l)
140
            # get pasteboard type
            pasteboardType = displaynameTypes.get( self.menClipboardtype.title(), u"" )
            if not pasteboardType:
                NSBeep()
                # we must return implicit None! Crashing otherwise.
145
                return
            # write to pasteboard
            pasteboard = NSPasteboard.generalPasteboard()
            pasteboard.clearContents()
            pasteboardTypeName = pasteboardType.pbname
150
            pasteboard.setData_forType_( nsdata, pasteboardTypeName)
        @objc.IBAction
        def showPreferencePanel_(self, sender):
            if self.preferenceController == None:
                self.preferenceController = PrefController.alloc().init()
155
            self.preferenceController.showWindow_( self.preferenceController )
    FMPasteBoxPrefController.py
   #
   #
        FMPasteBoxPreferenceController.py
   #
    #
        Created by Karsten Wolf on 07.02.18.
   #
        Copyright 2018 Karsten Wolf. All rights reserved.
    import objc
 10 import Foundation
   NSUserDefaults = Foundation.NSUserDefaults
```

```
import AppKit
  NSApplication = AppKit.NSApplication
15 NSWindowController = AppKit.NSWindowController
   import FMPasteBoxTools
   class FMPasteBoxPreferenceController (NSWindowController):
20
       butSetFileMakerAppPath = objc.IBOutlet()
       butSetExportsPath = objc.IBOutlet()
       cbDoExports = objc.IBOutlet()
25
       txtFileMakerAppPath = objc.IBOutlet()
       txtExportsPath = objc.IBOutlet()
       def init(self):
30
           self = self.initWithWindowNibName_("Preferences")
           wnd = self.window()
           wnd.setTitle_( u"FMPasteBox Preferences" )
           wnd.setDelegate_( self )
35
           defaults = NSUserDefaults.standardUserDefaults()
           self.txtFileMakerAppPath.setStringValue_( defaults.objectForKey_( u'txtFileMakerAppPath') )
           self.txtExportsPath.setStringValue_( defaults.objectForKey_( u'txtExportsPath') )
           self.cbDoExports.setState_( defaults.objectForKey_( u'cbDoExports') )
           return self
40
       def windowWillClose_(self, notification):
           defaults = NSUserDefaults.standardUserDefaults()
           defaults.setObject_forKey_(self.txtFileMakerAppPath.stringValue(), u'txtFileMakerAppPath')
45
           defaults.setObject_forKey_(self.txtExportsPath.stringValue(), u'txtExportsPath')
           defaults.setObject_forKey_(self.cbDoExports.state(), u'cbDoExports')
       @objc.IBAction
       def chooseFolder_(self, sender):
50
           if sender == self.butSetFileMakerAppPath:
               folders = FMPasteBoxTools.getApplicationDialog()
               if folders:
                   self.txtFileMakerAppPath.setStringValue_( folders )
           elif sender == self.butSetExportsPath:
55
               folders = FMPasteBoxTools.getFolderDialog()
               if folders:
                   self.txtExportsPath.setStringValue_( folders[0] )
   FMPasteBoxTools.py
  # -*- coding: utf-8 -*-
   """Some tools which are needed by most files.
 5
   import sys
   import os
   import re
   import struct
10 import traceback
   import datetime
   import unicodedata
   import hashlib
```

```
15 import xml.etree.cElementTree
   ElementTree = xml.etree.cElementTree
   import mactypes
   import appscript
20 asc = appscript
   import pdb
   import FMPasteBoxVersion
   kwdbg = FMPasteBoxVersion.developmentversion
25 kwlog = FMPasteBoxVersion.developmentversion
   import pprint
   pp = pprint.pprint
30 import urllib
   import urlparse
   import objc
35 import Foundation
   NSURL = Foundation.NSURL
   NSFileManager = Foundation.NSFileManager
   NSUserDefaults = Foundation.NSUserDefaults
   NSString = Foundation.NSString
40
   import AppKit
   NSOpenPanel = AppKit.NSOpenPanel
   NSAlert = AppKit.NSAlert
   NSSavePanel = AppKit.NSSavePanel
45 NSFileHandlingPanelOKButton = AppKit.NSFileHandlingPanelOKButton
   NSPasteboard = AppKit.NSPasteboard
   NSP as teboard Communication {\tt Exception} = {\tt AppKit.NSP} as teboard {\tt Communication Exception}
   def num2ostype( num ):
50
       if num == 0:
           return '????'
       s = struct.pack(">I", num)
       return makeunicode(s, "macroman")
55 def ostype2num( ostype ):
       return struct.pack('BBBB', list(ostype))
   def makeunicode(s, srcencoding="utf-8", normalizer="NFC"):
       try:
60
           if type(s) not in (unicode, objc.pyobjc_unicode):
               s = unicode(s, srcencoding)
       except TypeError:
           print "makeunicode type conversion error"
           print "FAILED converting", type(s), "to unicode"
       s = unicodedata.normalize(normalizer, s)
65
       return s
   def NSURL2str( nsurl ):
       if isinstance(nsurl, NSURL):
70
           return str(nsurl.absoluteString())
       return nsurl
   def getFileProperties( theFile ):
75
       sfm = NSFileManager.defaultManager()
       props = sfm.fileAttributesAtPath_traverseLink_( theFile, True )
       if not props:
```

```
return {}
80
        mtprops = props.mutableCopy()
        mtprops.removeObjectsForKeys_( [
            u"NSFileExtensionHidden",
            u"NSFileGroupOwnerAccountID"
            u"NSFileGroupOwnerAccountName",
85
            u"NSFileOwnerAccountID",
            u"NSFileOwnerAccountName"
            #u"NSFilePosixPermissions",
            #u"NSFileReferenceCount",
            # u"NSFileSize",
90
            #u"NSFileSystemFileNumber",
            u"NSFileSystemNumber",
            u"NSFileType",
            # u"NSFileHFSCreatorCode",
            # u"NSFileHFSTypeCode",
95
            #u"NSFileCreationDate"
            ] )
        return mtprops
    def setFileProperties( theFile, props ):
100
        sfm = NSFileManager.defaultManager()
        return sfm.changeFileAttributes_atPath_( props, theFile )
   def datestring_nsdate( dt=datetime.datetime.now() ):
        now = str(dt)
105
        now = now[:19]
        now = now + " +0000"
        return now
    def setFileModificationDate( filepath, modfdt ):
110
        l = getFileProperties( filepath )
        date = Foundation.NSDate.dateWithString_( datestring_nsdate( modfdt ) )
        l['NSFileModificationDate'] = date
        setFileProperties( filepath, l)
        folder, filename = os.path.split( filepath )
115
        print "Setting file(%s) modification date to %s" % (filename, repr(modfdt))
   def uniquepath(folder, filenamebase, ext, nfill=3, startindex=1, sep="_", always=True):
        11 11 11
120
        folder = os.path.abspath( folder )
        if not always:
            path = os.path.join(folder, filename + ext )
            if not os.path.exists( path ):
125
                return path
        n = startindex
        while True:
            serialstring = str(n).rjust(nfill, "0")
130
            filename = filenamebase + sep + serialstring + ext
            fullpath = os.path.join(folder, filename)
135
            if n >= 10**nfill:
                nfill = nfill + 1
            if not os.path.exists(fullpath):
                return fullpath
140
            n += 1
```

```
def gethashval( s ):
        m = hashlib.sha1()
145
        size = len(s)
        t = "blob %i\0%s" % (size, s)
        m.update(t)
        return (m.hexdigest(), size)
150
    def cancelContinueAlert(title, message, butt1="OK", butt2=False):
        """Run a generic Alert with buttons "Weiter" & "Abbrechen".
           Returns True if "Weiter"; False otherwise
155
        alert = NSAlert.alloc().init()
        alert.setAlertStyle_( 0 )
        alert.setInformativeText_( title )
        alert.setMessageText_( message )
160
        alert.setShowsHelp_( False )
        alert.addButtonWithTitle_( butt1 )
        if butt2:
            # button 2 has keyboard equivalent "Escape"
165
            button2 = alert.addButtonWithTitle_( butt2 )
            button2.setKeyEquivalent_( unichr(27) )
        f = alert.runModal()
        return f == AppKit.NSAlertFirstButtonReturn
170
    def errorDialog( message="Error", title="Some error occured..."):
        return cancelContinueAlert(title, message)
    def getFileDialog(multiple=False):
175
        panel = NSOpenPanel.openPanel()
        panel.setCanChooseFiles_(True)
        panel.setCanChooseDirectories_(False)
        panel.setAllowsMultipleSelection_(multiple)
        rval = panel.runModalForTypes_( None )
180
        if rval:
            return [t for t in panel.filenames()]
        return []
    def getApplicationDialog():
185
        panel = NSOpenPanel.openPanel()
        panel.setCanChooseFiles_(True)
        panel.setCanChooseDirectories_(False)
        panel.setAllowsMultipleSelection_(False)
        rval = panel.runModalForTypes_( ['app'] )
190
            l = [makeunicode(t.path()) for t in panel.URLs()]
            return [[0]
        return ""
195 def getFolderDialog(multiple=False):
        panel = NSOpenPanel.openPanel()
        panel.setCanChooseFiles_(False)
        panel.setCanChooseDirectories_(True)
        panel.setAllowsMultipleSelection_(multiple)
200
        rval = panel.runModalForTypes_([])
        if rval:
            return [t for t in panel.filenames()]
        return []
205 def saveAsDialog(path):
        panel = NSSavePanel.savePanel()
```

```
if path:
            panel.setDirectory_( path )
210
        panel.setMessage_( u"Save as OPML" )
        panel.setExtensionHidden_( False )
        panel.setCanSelectHiddenExtension_(True)
        panel.setRequiredFileType_( u"opml" )
215
        if path:
            if not os.path.isdir( path ):
                folder, fle = os.path.split(path)
            else:
                folder = path
220
                fle = "Untitled.opml"
            rval = panel.runModalForDirectory_file_(folder, fle)
        else:
            rval = panel.runModal()
225
        if rval == NSFileHandlingPanelOKButton:
            return panel.filename()
        return False
    def datetimestamp( dt=None ):
230
        # '2018-02-17 19:41:02'
        if not dt:
            dt = datetime.datetime.now()
        now = str(dt)
        now = now[:19]
235
        d, t = now.split()
        t = t.replace(':', '')
        return (d,t)
    def get_type_from_hexstring( hexstring ):
240
        """Extract the 4-char macroman type code from the pasteboard type name."""
        h = int(hexstring, 16)
        s = struct.pack(">I", h)
        s = unicode(s, 'macroman')
        return s
245
    def get_hexstring_for_type( typ_ ):
        s = struct.pack( "BBBB", typ_ )
250
        i = struct.unpack( ">I", s)
        return hex(i)
    def get_type_from_intstring( intstring ):
        h = int(intstring)
255
        s = struct.pack(">I", h)
        s = unicode(s, 'macroman')
        return s
    def get_flavor(s):
260
        """Return the 4-char type from a pasteboard name
        # seems like the standart naming scheme for the pasteboard server
        re_pbtype = re.compile( u"CorePasteboardFlavorType 0x([A-F0-9]{,8})")
265
        m = re_pbtype.match(s)
        result = ""
        if m:
            t = m.groups()[0]
270
            result = get_type_from_hexstring(t)
```

return result

```
def writePasteboardFlavour( folder, basename, ext, data ):
        p = uniquepath(folder, basename, ext)
275
        if data:
            f = open (p, 'wb')
            f.write( data )
            f.close()
280 # fmpa 15
    # XML2 - 0x584D4C32 - generic xml for layout objects
    # FMPA 11
    # XMFN - 0x584D464E - Custom Functions
285
    # FileMaker Advanced Pasteboard types
    # XMFD - 0x584D4644 - fields
    # XMTB - 0x584D5442 - basetables
    # XMSC - 0x584D5343 - scripts
290 # XMSS - 0x584D5353 - script step
    # XMLO - 0x584D4C4F - layout objects
    # FileMaker Developer Pasteboard types
    # beides binaerformate
295 # FTR5 - 0x46545235 -
    # FMP5
    class PasteboardType(object):
        canonicalTypes = {
            u'com.adobe.pdf': u'Apple PDF pasteboard type',
300
            u'public.jpeg': u"CorePasteboardFlavorType 0x4A504547",
            u'NeXT TIFF v4.0 pasteboard type': u'public.tiff',
            u'dyn.ah62d4rv4gk8zuxnggk': u"CorePasteboardFlavorType 0x584D4C32",
305
        }
        def __init__(self, pbname, typ, dataType, name, fileExt):
            self.pbname = pbname
310
            self.typ = typ
            self.dataType = dataType
            self.name = name
            self.fileExt = fileExt
            self.canonicalType = self.canonicalTypes.get( pbname, pbname )
315
        def __repr__(self):
            return u"PasteboardType(%s, %s, %s, %s, %s, %s)" % (
                    repr(self.pbname),
                    repr(self.typ),
320
                    repr(self.dataType),
                    repr(self.name),
                    repr(self.fileExt),
                    repr(self.canonicalType),)
325 class PasteboardEntry(object):
        def __init__(self, name, data, typ):
            self.name = name
            self.data = data
            self.typ = typ
330
            self.additionals = []
        def __repr__(self):
            return u"PasteboardEntry(%s, data[%i], %s, %s)" % (
                    repr(self.name),
```

```
335
                    len(self.data),
                    repr(self.typ),
                    repr(self.additionals))
    fmpPasteboardTypes = {
        u"CorePasteboardFlavorType 0x584D4C32":
340
            PasteboardType(u"CorePasteboardFlavorType 0x584D4C32",
                             'XML2', 'fullXML', "Layout Objects", '.xml'),
        u"CorePasteboardFlavorType 0x584D5442":
345
            PasteboardType(u"CorePasteboardFlavorType 0x584D5442",
                             'XMTB', 'snippetXML', "Base Tables", '.xml'),
        u"CorePasteboardFlavorType 0x584D4644":
            PasteboardType(u"CorePasteboardFlavorType 0x584D4644",
350
                             'XMFD', 'snippetXML', "Fields", '.xml'),
        u"CorePasteboardFlavorType 0x584D5343":
            PasteboardType(u"CorePasteboardFlavorType 0x584D5343",
                             'XMSC', 'snippetXML', "Scripts", '.xml'),
355
        u"CorePasteboardFlavorType 0x584D5353":
            PasteboardType(u"CorePasteboardFlavorType 0x584D5353",
                             'XMSS', 'snippetXML', "Script Steps", '.xml'),
360
        u"CorePasteboardFlavorType 0x584D464E":
            PasteboardType(u"CorePasteboardFlavorType 0x584D464E",
                             'XMFN', 'snippetXML', "Custom Functions", '.xml'),
        u"CorePasteboardFlavorType 0x584D4C4F":
365
            PasteboardType(u"CorePasteboardFlavorType 0x584D4C4F",
                             'XMLO', 'snippetXML', "Layout Objects (obsolete)", '.xml'),
    }
    displaynameTypes = {}
370 # "Custom Functions" -> PasteboardType(u"CorePasteboardFlavorType 0x584D464E",...
    for typeName in fmpPasteboardTypes:
        typ = fmpPasteboardTypes[typeName]
        displaynameTypes[typ.name] = typ
375 additionalFMPPasteboardTypes = {
        u"CorePasteboardFlavorType 0x4A504547":
            PasteboardType(u"CorePasteboardFlavorType 0x4A504547",
                            'JPEG', 'binaryData',
                            "Layout Objects JPEG Image", '.jpg'),
380
        u'Apple PDF pasteboard type':
            PasteboardType(u'Apple PDF pasteboard type',
                             'PDF', 'binaryData',
                             "Layout Objects PDF Image", '.pdf'),
385
        u'com.adobe.pdf':
            PasteboardType(u'com.adobe.pdf',
                             'PDF', 'binaryData',
                            "Layout Objects PDF Image", '.pdf'),
390
        u'Apple PICT pasteboard type':
            PasteboardType(u'Apple PICT pasteboard type',
                             'PICT', 'binaryData',
                            "Layout Objects PICT Image (obsolete)", '.pict'),
395
        u'NeXT TIFF v4.0 pasteboard type':
            PasteboardType(u'NeXT TIFF v4.0 pasteboard type',
                             'TIFF', 'binaryData',
```

```
"Layout Objects TIFF Image", '.tif'),
400
        u'public.jpeg':
            PasteboardType(u'public.jpeg',
                             'JPEG', 'binaryData',
                             "Layout Objects JPEG Image", '.jpg'),
405
        u'public.tiff':
            PasteboardType(u'public.tiff',
                             'TIFF', 'binaryData',
                             "Layout Objects TIFF Image", '.tif'),
410 }
    def read_pb():
        result = None
        hashes = set()
415
        additionals = []
        pasteboard = NSPasteboard.generalPasteboard()
        pbTypeNames = pasteboard.types()
420
        # additionalFMPPasteboardTypes
        for pbTypeName in pbTypeNames:
            pbType = mainType = None
425
            if pbTypeName in fmpPasteboardTypes:
                pbType = fmpPasteboardTypes.get( pbTypeName )
                mainType = True
            elif pbTypeName in additionalFMPPasteboardTypes:
                pbType = additionalFMPPasteboardTypes.get( pbTypeName )
430
                mainType = False
            if pbType == None:
                continue
435
            try:
                s = pasteboard.dataForType_( pbTypeName )
                data = s.bytes().tobytes()
                # dont load duplicate data
440
                hashval, _ = gethashval( data )
                if hashval in hashes:
                    continue
                hashes.add( hashval )
445
                if mainType:
                    data = makeunicode(data)
                pbTypeName = pbType.canonicalType
450
                pbEntry = PasteboardEntry(pbTypeName, data, pbType)
                if mainType:
                    result = pbEntry
                else:
455
                    additionals.append( pbEntry )
            except Exception, v:
                print v
                pdb.set_trace()
460
                pp(locals())
                print
```

```
if result:
            result.additionals = additionals
465
        if kwlog:
            print
            print "result = "
            pp(result)
470
            print
        return result
   FMPasteBoxVersion.py
   import os
   appname ="FMPasteBox"
   appnameshort = "FMPasteBox"
 5 author = "Karsten Wolf"
   years = "2018"
   copyright = 'Copyright %s %s' % (years, author)
10 version = "0.2.0"
   creator = 'KWFP'
   bundleID = "org.kw.FMPasteBox"
   description = (u"Filemaker Pasteboard interface and editor")
15 longdescription = u"""FMPasteBox is a Mac OS X application for translating the FileMaker clipboard."""
   #document_creator = "Created by %s %s" % (appname, version)
   developmentversion = False
   setup.py
   Script for building FMPasteBox
   Usage:
      python setup.py py2app
   from distutils.core import setup
   from setuptools.extension import Extension
10 import py2app
   import FMPasteBoxVersion
   setup(
15
       name = FMPasteBoxVersion.appname,
        version = FMPasteBoxVersion.version,
        description = FMPasteBoxVersion.description,
        long_description = FMPasteBoxVersion.longdescription,
        author = FMPasteBoxVersion.author,
20
        app=[{
            'script': "FMPasteBox.py",
            "plist": {
                "NSPrincipalClass": 'NSApplication',
25
                "CFBundleIdentifier": FMPasteBoxVersion.bundleID,
                "CFBundleName": FMPasteBoxVersion.appnameshort,
                "CFBundleSignature": FMPasteBoxVersion.creator,
                "CFBundleShortVersionString": FMPasteBoxVersion.version,
```

```
\verb"CFBundleGetInfoString": FMPasteBoxVersion.description,\\
30
                "NSHumanReadableCopyright": FMPasteBoxVersion.copyright,
           }
       }],
       data_files=[
35
            "English.lproj/MainMenu.nib",
            "English.lproj/Preferences.nib",
           #"English.lproj/FMPasteBoxDocument.nib",
           "+icon/FMPasteBox.icns",
           #"+icon/FMPasteBoxFile.icns",
40
           ],
       options={
            "py2app": {
                "iconfile": "+icon/FMPasteBox.icns",
                # "packages": [],
"excludes": ["TkInter", 'Tcl', 'Tk'],
45
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       } )
```