


Python programming on win32 pdf

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Title: Python Programming on Win32
Author: Mark Hammond and Antonia
Publisher: No Starch Press
Year: 2004
Pages: 400

I was originally hired to write a book about Python for Windows. I was contacted by the book "Python: A Beginner's Guide" by Mark Hammond and Antonia. I was hired to write "Python Programming on Win32". It is a practical, step-by-step guide to Python on Windows.

The book is written for people who want to learn Python on Windows. It is a practical, step-by-step guide to Python on Windows. It is a practical, step-by-step guide to Python on Windows.

Python is a high-level, interpreted programming language. It is a practical, step-by-step guide to Python on Windows. It is a practical, step-by-step guide to Python on Windows. It is a practical, step-by-step guide to Python on Windows.

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Manufacturer: LDLC.com
Processor: Intel(R) Core(TM) i7-4710MQ CPU @ 2.50GHz 2.50 G
Installed memory (RAM): 16.0 GB (15.9 GB usable)
System type: 64-bit Operating System, x64-based processor
Pen and Touch: No Pen or Touch Input is available for this Display

A Python for Scientists
Programming with Python

Mark Hammond



An introduction to Python
for absolute beginners

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Warning: This is a computer science course. It is not a Python course.
This course is designed for people with absolutely no experience of programming.
Python is a high-level, interpreted programming language. It is a practical, step-by-step guide to Python on Windows.

Python is a high-level, general-purpose, and very popular programming language. Python programming language (latest Python 3) is being used in web development, Machine Learning applications, along with all cutting-edge technology in Software Industry.In this article, we will learn how to convert an Excel File to PDF File Using Python Attention gee! **Strengthen your foundations with the Python Programming Foundation Course and learn the basics.** To begin with, your interview preparations Enhance your Data Structures concepts with the Python DS Course. And to begin with your Machine Learning Journey, join the Machine Learning - Basic Level CourseHere we will use the win32com module for file conversion.Python extensions for Microsoft Windows Provide access to much of the Win32 API, the ability to create and use COM objects, and the Pythonwin environment.pip install pywin32Approach:First, we will create a COM Object Using Dispatch() method.Then we will read the Excel file pass "Excel.Application" inside the Dispatch methodPass Excel file pathThen we will convert it into PDF using the ExportAsFixedFormat() methodExportAsFixedFormat():- The ExportAsFixedFormat method is used to publish a workbook in either PDF or XPS format.Syntax:ExportAsFixedFormat (Type, FileName, Quality, IncludeDocProperties, IgnorePrintAreas, From, To, OpenAfterPublish, FixedFormatExtClassPtr)Excel File click hereInput:EXCEL FILEBelow is the Implementation:from win32com import clientexcel = client.Dispatch("Excel.Application")sheets = excel.Workbooks.Open('Excel File Path')work_sheets = sheets.Worksheets[0]work_sheets.ExportAsFixedFormat(0, "PDF File Path")Output:PDF FILE Source and binary executables are signed by the release manager or binary builder using their OpenPGP key. Release files for currently supported releases are signed by the following: Release files for older releases which have now reached end-of-life may have been signed by one of the following: You can import a person's public keys from a public keyserver network server you trust by running a command like: gpg --recv-keys [key id] or, in many cases, public keys can also be found at keybase.io. On the version-specific download pages, you should see a link to both the downloadable file and a detached signature file. To verify the authenticity of the download, grab both files and then run this command: gpg --verify Python-3.6.2.tgz.asc Note that you must use the name of the signature file, and you should use the one that's appropriate to the download you're verifying. (These instructions are geared to GnuPG and Unix command-line users.) Other Useful Items Looking for 3rd party Python modules? The Package Index has many of them. You can view the standard documentation online, or you can download it in HTML, PostScript, PDF and other formats. See the main Documentation page. Information on tools for unpacking archive files provided on python.org is available. Tip: even if you download a ready-made binary for your platform, it makes sense to also download the source. This lets you browse the standard library (the subdirectory Lib) and the standard collections of demos (Demo) and tools (Tools) that come with it. There's a lot you can learn from the source! There is also a collection of Emacs packages that the Emacsing Pythoneer might find useful. This includes major modes for editing Python, C, C++, Java, etc., Python debugger interfaces and more. Most packages are compatible with Emacs and XEmacs. Want to contribute? Want to contribute? See the Python Developer's Guide to learn about how Python development is managed. Loading PreviewSorry, preview is currently unavailable. You can download the paper by clicking the button above. last modified July 16, 2020 This is Windows API tutorial for the C programming language. It is pure Windows API tutorial. It does not cover MFC. After reading this tutorial, you will be able to program non trivial Windows applications. Even if you program in a higher level programming language, this tutorial will give you valuable knowledge of how things work under the hood. Note that this tutorial uses C99. Table of contents E-book Introduction to Windows API programming is available on ZenCode; in PDF format with 244 pages and 114 code examples. Windows API The Windows API is Microsoft's core set of application programming interfaces (APIs) available in the Microsoft Windows operating systems. It was formerly called Winapi or Win32 API. 1. Why Python C/C++ 早期的计算机视觉领域大多数程序都是用C/C++编写。随着计算机硬件速度越来越快，开源平台越来越多，开发者选择计算机视觉算法的实现语言变得更加灵活，代码编写的效率和易用性成为选择编写语言时的考虑因素，而不再仅仅只考虑执行效率。Python Python的跨平台、开放性、易用性，加之丰富的资源使其成为近年来越来越多开发者的选择。国外出版了大量的Python编程、学习书籍。亚马逊搜索Python图书，结果列表长达100页共5712本（截止2016年5月28日）。你也可以从诸如Coursera或Edx等mooc平台找到像MIT校长讲授的Python入门课程。国内也引进了许多优秀的学习资料和许多在线课程。除了这些学习资料，更重要的是Python自带很多可免费获取的强大而便捷的图像处理、数学计算和数据挖掘模块和丰富的其他网络资源。 本文以windows平台为例，介绍使用Python进行计算机视觉编程的开发环境搭建与基本配置，总结了软件下载地址、安装方法和开发环境搭建的基本方法，并提供了简单的代码示例。想说的是，Python安装方法与系统、软件版本等诸多因素有关，要想一步到位比较难，遇到问题多种方式可以混合尝试。 2. 下载安装软件包 Python机器视觉编程环境的常用配置如下： Python：Python2.7或Python3.x pip：python的一个包管理器，安装后可方便的引入第三方库 NumPy：该模块用于python计算机视觉编程时的向量、矩阵的表示与操作 SciPy：更高级的数学计算模块 Matplotlib：结果可视化模块 PIL：Python的图像处理类库，提供通用的图像处理功能及大量基本图像操作 LIBSVM：用于机器学习的开源库 OpenCV：流行的开源机器视觉算法库，提供越来越多的Python接口，目前支持到Python2.7 2.1 Python 下载地址： 版本选择： 选择Python2还是Python3这是一个问题，我们需要知道的： Python2：用的人多，坑少，大多数第三方库目前都支持。 Python3：重大改进，发展趋势。 但有些第三方库目前还支持不到3.x。 Python3与Python2有很多语法差异，并且不兼容2.x版本。 对初学者，可以先学Python2.7，等第三方库支持较好后再学习Python3，也会比较快入手。 安装并添加环境变量： 下载与操作系统对应的版本，运行安装，这里选择默认安装路径C:\Python27。 然后添加Python的安装路径到系统环境变量PATH中：计算机->右键->属性->高级系统设置，系统环境变量后加“;”号，然后添加python2.7的路径，确定。 这样，命令行即可直接运行Python，并查看版本信息 2.2 安装pip pip是python中的一个包管理器，就是在电脑中自动安装、配制、卸载和升级软件包的工具体。 pip可以代替之前的easy_install，可方便的引入第三方库。 下载地址： 目前最新版本为PIP-8.1.2。 安装并添加系统环境变量： 下载对pip-8.1.2.tar.gz压缩包，打开cmd，进入相应解压目录使用命令行安装。 例如，下载的是PIP-8.1.2.tar.gz压缩包，解压后得到pip-8.1.2文件夹。 将该文件夹到Python安装目录C:\Python27下（不将页到这个文件夹也可以）。 打开cmd进入pip-8.1.2目录下运行： python setup.py install 然后再次编辑系统环境变量，将C:\Python27\Scripts也添加到path，这样可以方便的运行pip 有了pip就可以在命令行使用 pip install xxx 的方法方便的安装所需的第三方库，例如下面的NumPy和SciPy的第三方库了。 2.3 NumPy NumPy (Numeric Python) 是Python的一种开源的数值计算扩展。这种工具可用来存储和处理大型矩阵，比Python自身的嵌套列表(nested list structure)结构要高效的多（该结构也可以用来表示矩阵(matrix)）。 提供了许多高级的数值编程工具，如：矩阵数据类型、向量处理、以及精密的运算库。专为进行严格的数字处理而产生。 NumPy和SciPy都可以在 下载。 下载地址： //sourceforge.net/projects/numpy/files/NumPy/1.9.2/numpy-1.9.2-win32-superpack-python2.7.exe/download 安装： 方法1： 下载源码，打开cmd，进入相应目录使用命令行安装 python setup.py install 方法2： windows系统可下载.exe文件，如PIL-1.1.7-win32-py2.7.exe安装。 方法3： 使用pip直接安装NumPy pip install numpy 可能会因为网速等原因安装不成功，多试几次。本机安装时试了两次成功。 2.4 SciPy SciPy (Scientific Computing Tools for Python) 是一款方便、易用的python的科学和工程计算工具包。它包括统计,优化,整合,线性代数模块,傅里叶变换,信号和图像处理，常微分方程求解器等。 方法3： 同样也可以使用pip直接安装scipy pip install scipy 2.5 PIL PIL (Python Imaging Library) Python图像处理类库。提供了通用的图像处理功能，以及大量游戏的基本图像操作，如图像缩放、裁剪、色彩空间转换等。 下载地址： 安装： 方法1： 下载源码，打开cmd，进入相应目录使用命令行安装 python setup.py install 方法2： windows系统可下载.exe文件，如PIL-1.1.7-win32-py2.7.exe安装。 注意PIL目前免费版支持到Python2.7。 方法3： 使用pip安装 pip install PIL 2.6 matplotlib matplotlib是一个2维Python跨平台交互式绘图库。 下载地址： //pypi.python.org/pypi/matplotlib/ 安装说明文档 提示在windows平台安装matplotlib需要安装相应版本的setuptools, numpy, python-dateutil, pytz, pyarsing, 和 cycler。 具体下载地址在该页面下方有。本机只预先装了numpy，其他包可能在pip安装时自动下载安装了吧。大家可以先试试下面的方法2。 安装： 方法1： 使用pip离线安装.whl文件。将上述下载地址下载好的matplotlib-1.5.1-cp27-none-win32.whl拷入某文件夹 pip install e:\教程\python\matplotlib\matplotlib-1.5.1-cp27-none-win32.whl 方法2： 使用pip在线安装 pip install matplotlib 2.7 LIBSVM LIBSVM是台湾同胞为世界机器学习领域的卓越贡献之一，目前支持Python, R, MATLAB, Perl, Ruby, Weka, CommonLISP, CLISP, Haskell, OCaml, LabVIEW, and PHP interfaces. C#, .NET code and CUDA多种语言。 下载地址： cjlw/libsvm/ 下载LIBSVM软件包libsvm-3.21.zip文件 安装： windows下安装python的LIBSVM模块及其难，请务必做好思想准备；windows下安装LIBSVM最常出问题出在libsvm.dll文件上，关键是要用正确版本的libsvm.dll文件替换windows下的libsvm.dll文件。在尝试网上各种方法未果后，终于找到一个在本机环境下能用的方法，并且此方法比较简便，仅供大家参考。 本机环境为： 系统为win7 64位 下载的LIBSVM版本是libsvm-3.21压缩包python安装路径C:\Python27\python版本： 2.7.11 win32位 （1）将下载的libsvm-3.21压缩包解压到C盘根目录下（其他文件夹也可） 将libsvm-3.21解压到C:\libsvm-3.21\（2） 下载libsvm-3.21的.whl文件 到以下网址下载与自己Python版本对应的LIBSVM的.whl文件： oahke/pythonlib/#libsvm 拷贝到某目录，例如：e:\教程\python\Libsvm（3）使用pip安装libsvm-3.21-cp27-none-win32.whl 运行cmd，使用pip安装上述.whl文件： pip install e:\教程\python\libsvm\libsvm-3.21-cp27-none-win32.whl 现在，符合本机和软件版本的LIBSVM就被存放到你python安装目录下的Libsite-packages文件夹中，其中有一个libsvm-3.21.dist-info文件夹，里面都是说明文件。（4）将安装生成的libsvm.dll替换C:\libsvm-3.21\windows下的libsvm.dll 使用安装生成的C:\Python27\Libsite-packages\下的libsvm.dll替换C:\libsvm-3.21\windows下的libsvm.dll。至此，libsvm.dll文件和你电脑的版本号完全对应，安装完成，本文在第3节测试安装。 本方法参考了下文： 2.8 OpenCV OpenCV是业界最常用的开源机器视觉库，无需多介绍。 下载地址： 安装： 下载文件opencv-2.4.10.exe是一个自解压压缩包，将解压后的文件夹opencv->build->python->2.7->x86中的 cv2.pyd复制到： C:\Python27\Libsite-packages 中即可。 3. 测试安装： 示例程序 3.1 NumPy+PIL Python IDLE GUI新建File，输入如下代码，保存后F5运行 from PIL import Image pil_im = Image.open("E:\images\Lena.jpg").convert('L') pil_im.show() 值得注意的是： windows7下PythonPIL库show()函数显示图片有问题，解决方法是在将Python安装目录下的Lib/site-packages/PIL目录下的 ImageShow.py 文件的第 99 行进行替换： 将原 return "start /wait %s && del /f %s" % (file, file) 替换为 return "start /wait %s && PING127.0.0.1 -n 5 > NUL && del /f %s" % (file, file) 替换后图片将使用windows图片查看器打开。 NumPy参考文档： PIL参考文档： //efbot.org/imagingbook/ 3.2 NumPy+Matplotlib 打开Python，File->New File，输入如下代码，保存，F5运行 import numpy as np import matplotlib.pyplot as plt X = np.linspace(np.pi, np.pi, 256, endpoint=True) C,S = np.cos(X), np.sin(X) plt.plot(X,C) plt.plot(X,S) plt.show() 更多示例参考： 帮助文档： /matplotlib.org/Matplotlib.pdf 3.3 LIBSVM 2.7节已经安装配置好了LIBSVM，打开IDLE (Python GUI)，新建一个文件，输入如下代码： import os.chdir('C:\libsvm-3.21\python') from svmutil import * y, x = svm.read_problem('heart_scale') m = svm.train([200], [-2:200], '-c 4') p_label, p_acc, p_val = svm.predict([200], x[200:, m]) 取个文件名（例如svm\lib_test1.py）保存后，按F5运行，运行结果如下，说明安装成功 ===== RESTART:D:\Python\svmlib_test1.py ===== Accuracy = 84.2857%(59/70) (classification) 打开解压后opencv文件夹中的source\samples\python 选择drawing.py右键->Edit with IDLE 如果没有问题应该看到变换的彩色条纹： 自己写个显示图像的例子，新建文件，输入代码 import cv2 im = cv2.imread("E:\images\Lena.jpg") imGray = cv2.imread("E:\images\Lena.jpg",cv2.CV_LOAD_IMAGE_GRAYSCALE) cv2.imshow("WinName",im) cv2.imshow("Gray WinName",imGray) cv2.waitKey() 保存，F5运行，结果如下 Python机器视觉编程环境搭建过程比较繁琐，每一步可能都有多种方法，也可能有各种问题，本文总结的是书上和网友给出的部分方法，难免疏漏，仅供参考。 转载请注明出处（本文更新链接）： 新书终于面市啦，《机器学习原理与编程实战》连接原理与实践：

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