

# Windows10 Python安装dlib库失败

## Windows10安装dlib失败的几点原因

因为学习Python需要，需要安装dlib库，踩了许多个坑，尝试了种种方法，那一片红色的报错依然刺眼，发现问题，寻找问题的根源，终于找到解决方法。

### 1.安装dlib前需要有依赖库，cmake和boost.

多简单的问题对不对？

```
pip install cmake
pip install boost
```

潇洒回车，轻松安装好，然后

```
pip install dlib
```

潇洒回车，潇洒报错...

```
Collecting dlib
Downloading https://files.pythonhosted.org/packages/05/57/e8a8caa3c89a27f80bc78da39c423e2553f482a3705adc619176a3a24b36/dlib-19.17.0.tar.gz (3.4MB)
3.4MB 14kB/s
Building wheels for collected packages: dlib
Building wheel for dlib (setup.py) ... error
ERROR: Complete output from command 'f:\python36\python.exe' -u -c 'import setuptools, tokenize;__file__='''C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py''''f=getattr(tokenize, '''open''', open)(__file__);code=f.read().replace(''''r\n''', '''n''');f.close();exec(compile(code, __file__, '''exec'''))' bdist_wheel -d 'C:\Users\fu\AppData\Local\Temp\pip-wheel-g2i4oztb' --python-tag cp36:
ERROR: running bdist_wheel
running build
running build_py
package init file 'dlib\__init__.py' not found (or not a regular file)
running build_ext
Traceback (most recent call last):
File "C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py", line 120, in get_cmake_version
out = subprocess.check_output(['cmake', '--version'])
File "f:\python36\lib\subprocess.py", line 356, in check_output
**kwargs).stdout
File "f:\python36\lib\subprocess.py", line 423, in run
with Popen(*popenargs, **kwargs) as process:
File "f:\python36\lib\subprocess.py", line 729, in __init__
restore_signals, start_new_session)
File "f:\python36\lib\subprocess.py", line 1017, in _execute_child
startupinfo)
FileNotFoundError: [WinError 2] 系统找不到指定的文件。
```

During handling of the above exception, another exception occurred:

```
Traceback (most recent call last):
File "", line 1, in
File "C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py", line 261, in
'Topic :: Software Development',
File "f:\python36\lib\site-packages\setuptools\__init__.py", line 143, in setup
return distutils.core.setup(**attrs)
File "f:\python36\lib\distutils\core.py", line 148, in setup
dist.run_commands()
File "f:\python36\lib\distutils\dist.py", line 955, in run_commands
self.run_command(cmd)
File "f:\python36\lib\distutils\dist.py", line 974, in run_command
cmd_obj.run()
File "f:\python36\lib\site-packages\wheel\bdist_wheel.py", line 192, in run
self.run_command('build')
File "f:\python36\lib\distutils\cmd.py", line 313, in run_command
self.distribution.run_command(command)
File "f:\python36\lib\distutils\dist.py", line 974, in run_command
cmd_obj.run()
File "f:\python36\lib\distutils\command\build.py", line 135, in run
self.run_command(cmd_name)
File "f:\python36\lib\distutils\cmd.py", line 313, in run_command
self.distribution.run_command(command)
File "f:\python36\lib\distutils\dist.py", line 974, in run_command
cmd_obj.run()
File "C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py", line 129, in run
cmake_version = self.get_cmake_version()
File "C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py", line 125, in get_cmake_version
"\n"*****\n")
RuntimeError:
*****
CMake must be installed to build the following extensions: dlib
*****
```

```
-----
ERROR: Failed building wheel for dlib
Running setup.py clean for dlib
Failed to build dlib
Installing collected packages: dlib
Running setup.py install for dlib ... error
ERROR: Complete output from command 'f:\python36\python.exe' -u -c 'import setuptools, tokenize;__file__='''C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py''''f=getattr(tokenize, '''open''', open)(__file__);code=f.read().replace(''''r\n''', '''n''');f.close();exec(compile(code, __file__, '''exec'''))' install --record 'C:\Users\fu\AppData\Local\Temp\pip-record-4kwg7hfv\install-record.txt' --single-version-externally-managed --compile:
ERROR: running install
running build
running build_py
package init file 'dlib\__init__.py' not found (or not a regular file)
running build_ext
Traceback (most recent call last):
File "C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py", line 120, in get_cmake_version
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File "f:\python36\lib\subprocess.py", line 1017, in _execute_child
startupinfo)
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FileNotFoundError: [WinError 2] 系统找不到指定的文件。

During handling of the above exception, another exception occurred:

```
Traceback (most recent call last):
File "", line 1, in
File "C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py", line 261, in
'Topic :: Software Development',
File "f:\python36\lib\site-packages\setuptools\__init__.py", line 143, in setup
return distutils.core.setup(**attrs)
File "f:\python36\lib\distutils\core.py", line 148, in setup
dist.run_commands()
File "f:\python36\lib\distutils\dist.py", line 955, in run_commands
self.run_command(cmd)
File "f:\python36\lib\distutils\dist.py", line 974, in run_command
cmd_obj.run()
File "f:\python36\lib\site-packages\setuptools\command\install.py", line 61, in run
return orig.install.run(self)
File "f:\python36\lib\distutils\command\install.py", line 545, in run
self.run_command('build')
File "f:\python36\lib\distutils\cmd.py", line 313, in run_command
self.distribution.run_command(command)
File "f:\python36\lib\distutils\dist.py", line 974, in run_command
cmd_obj.run()
File "f:\python36\lib\distutils\command\build.py", line 135, in run
self.run_command(cmd_name)
File "f:\python36\lib\distutils\cmd.py", line 313, in run_command
self.distribution.run_command(command)
File "f:\python36\lib\distutils\dist.py", line 974, in run_command
cmd_obj.run()
File "C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py", line 129, in run
cmake_version = self.get_cmake_version()
File "C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\setup.py", line 125, in get_cmake_version
"\n"
RuntimeError:
*****
CMake must be installed to build the following extensions: dlib
*****
```

```
-----
ERROR: Command "f:\python36\python.exe" -u -c 'import setuptools, tokenize;__file__ = ""C:\Users\fu\AppData\Local\Temp\pip-install-
t50q34ym\dlib\setup.py"";f=getattr(tokenize, ""open"", open)(__file__);code=f.read().replace("""\r\n""", ""\n""");f.close();exec(compile(code, __file__, ""exec""))' install --
record 'C:\Users\fu\AppData\Local\Temp\pip-record-4kwg7hfv\install-record.txt' --single-version-externally-managed --compile" failed with error code 1 in
C:\Users\fu\AppData\Local\Temp\pip-install-t50q34ym\dlib\
WARNING: You are using pip version 19.1, however version 19.1.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.
```

看看错误信息中有这个：

```
RuntimeError:
*****
CMake must be installed to build the following extensions: dlib
*****
```

我就奇怪，我不是已经安装好这个cmake了嘛，你怎么还是不行。  
**2.不仅要安装cmake，还要下载visual studio20xx，要有C++的环境**  
官方下载地址：Visual Studio 2019  
看一下度娘对cmake的介绍：

CMake是一个跨平台的安装（编译）工具，可以用简单的语句来描述所有平台的安装(编译过程)。它能够输出各种各样的makefile或者project文件，能测试编译器所支持的C++特性，类似UNIX下的automake。只是CMake 的组态档取名为 CMakeLists.txt。

编译工具，那应该要有编译环境啊。

刚开始配置的时候，我也发现要安装这个vs，那就装呗，装好，还是不行，因为我安装了vs在安装的时候...



还不知道这个cmake是什么时候,我想,既然是Python的库,那我就安装Python这个模块就可以了,硬盘空间寸土寸金,然后,那片红色依然刺眼,当事人表示非常后悔...所以,一定要点上C++那个模块。

最后

pip install dlib

Looking in indexes: http://mirrors.aliyun.com/pypi/simple/  
Processing c:\users\ccc\appdata\local\pip\cache\wheels\5f\8b\5d\aea9c00e6b02ac6ce8b91db2c607b51044718ae7a09c0963f1\dl  
ib-19.19.0-cp37-cp37m-win\_amd64.whl  
Installing collected packages: dlib  
Successfully installed dlib-19.19.0

希望能够帮助你。

作者: cgy233