

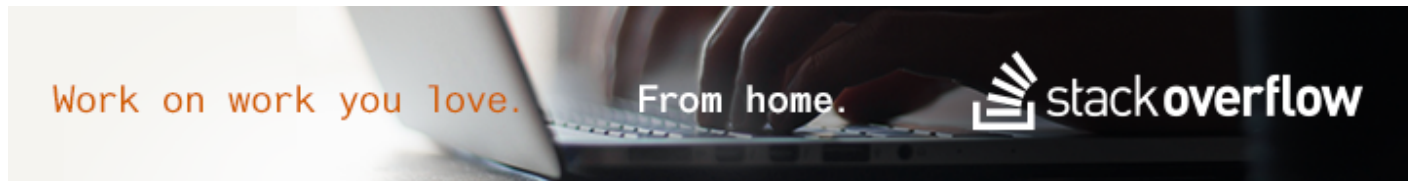
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## pydot and graphviz error: Couldn't import dot\_parser, loading of dot files will not be possible



When I run a very simple code with pydot

```
import pydot # import pydot or you're not going to get anywhere my friend :D

graph = pydot.Dot(graph_type='graph')

for i in range(3):

    edge = pydot.Edge("king", "lord%d" % i)
    graph.add_edge(edge)

vassal_num = 0
for i in range(3):
    for j in range(2):
        edge = pydot.Edge("lord%d" % i, "vassal%d" % vassal_num)
        graph.add_edge(edge)
        vassal_num += 1
```

```
graph.write_png('example1_graph.png')
```

It prints me the error message:

```
Couldn't import dot_parser, loading of dot files will not be possible.
```

I'm using python 2.7.3

[python](#) [python-2.7](#) [graphviz](#) [pydot](#)

asked Apr 11 '13 at 14:42



[Sadik](#)

**1,104** 1 21 53

- 
- 5 [pip install pydot2](#) should fix this issue. Much nicer than using `pip uninstall` because if you share code you can just add `pydot2` to your requirements.txt and not have users run unfamiliar commands. – [RussellStewart](#) Jul 25 '15 at 20:45
- 

## 11 Answers

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Answer for `pydot >= 1.1` :

The incompatibility of (upstream) `pydot` has been fixed by [6dff94b3f1](#), and thus `pydot >= 1.1` will be [compatible with](#) `pyparsing >= 1.5.7` .

Answer applicable to `pydot <= 1.0.28` :

For anyone else who comes across this, it is due to the changes in `pyparsing` from 1.x to the 2.x release. To install `pydot` using `pip`, first install the older version of `pyparsing`:

```
pip install pyparsing==1.5.7
pip install pydot==1.0.28
```

If you did not install `pyparsing` using `pip` , but instead used `setup.py` , then have a look at this [solution](#) to uninstall the package. Thanks [@qtips](#).

edited May 23 at 10:39



Ioannis Filippidis

2,244 1 20 27

answered Jul 27 '13 at 22:07



Jonathan

3,467 1 10 14

Thanks for the timely answer. I needed it 3 hours after you posted it. – [foresightyj](#) Jul 28 '13 at 1:55

I installed NetworkX, GraphViz and pydot, but could not get Graphviz functionality to work with NetworkX (e.g. [this](#) NetworkX example failed). I kept getting: **global name 'dot\_parser' is not defined**. Your solution solved this problem. – [qtips](#) Aug 6 '13 at 0:41

- 1 also, `sudo pip uninstall` does not work if you have installed your package using `python setup.py install` in that case, follow [this](#) solution. This was at least the case on my Mountain Lion OSX Mac – [qtips](#) Aug 6 '13 at 0:43

`sudo` is obviously not always necessary, like if you're using a virtualenv. Other than that, this worked for me! – [David Reynolds](#) Nov 14 '13 at 10:43

- 43 Why not just `pip install pyparsing==1.5.7` ? – [Suor](#) Jun 13 '14 at 7:19



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There is a new package in the pip repo called pydot2 that functions correctly with pyparsing2. I couldn't downgrade my packages because matplotlib depends on the newer pyparsing package.

Note: python2.7 from macports

edited Apr 11 '14 at 20:08

answered Jan 31 '14 at 20:22



Dana the Sane

9,651 6 38 69

- 6 IMHO This answer should be considered over the pyparsing downgrading Idea. Works for me perfectly with networkx too. Thanks ! – [Raghav RV](#) Jul 5 '14 at 16:38

Still giving this error but `dot_parser` error gone. You must install pydot for `pydotprint` to work. – [deeperx](#) Oct 23 '14 at 10:55

pydot used a private module variable (`_noncomma`) from `pyarsing`. The below diff fixes it to use `pyarsing` 2.0.1:

```
diff --git a/dot_parser.py b/dot_parser.py
index dedd61a..138d152 100644
--- a/dot_parser.py
+++ b/dot_parser.py
@@ -25,8 +25,9 @@ from pyarsing import __version__ as pyarsing_version
 from pyarsing import ( nestedExpr, Literal, CaselessLiteral, Word, Uppcase, OneOrMore,
ZeroOrMore,
    Forward, NotAny, delimitedList, oneOf, Group, Optional, Combine, alphas, nums,
    restOfLine, cStyleComment, nums, alphanums, printables, empty, quotedString,
-    ParseException, ParseResults, CharsNotIn, _noncomma, dblQuotedString, QuotedString,
+    ParseException, ParseResults, CharsNotIn, _noncomma, dblQuotedString, QuotedString,
    ParserElement )
+    ParseException, ParseResults, CharsNotIn, dblQuotedString, QuotedString,
    ParserElement )

+_noncomma = "".join( [ c for c in printables if c != "," ] )

class P_AttrList:
```

answered Aug 31 '13 at 11:49



Gabi Davar

849 9 12

2 Just for completeness, [here's the issue report](#) for pydot which reports this issue and the fix mentioned by @Gabi Davar. – Jack Kelly Oct 16 '13 at 9:11

Thanks! thanks!! I was breaking my head over this! – Shankar Dec 7 '13 at 4:14

I forked the pydot repository [1], applied the Gabi Davar patch and some changes to support python-3. The package is available in the PyPI [2].

Cheers

- [1] <https://pypi.python.org/pypi/pydot2/1.0.32>
- [2] <https://pypi.python.org/pypi/pydot2>

edited May 11 at 0:58

answered Jan 30 '14 at 16:53



Ioannis Filippidis

2,244 1 20 27



david villa

146 2 4

1 The PyPI page appears to be down. That's too bad! Any ideas why? – Dav Clark Nov 12 '14 at 16:32

the pip package seems to be broken. `pip install...` failed in the middle without explicit error. Looks like the manifest and the actual files don't match. I checkout the git repo, and `mv README.rst README` then `python setup.py install`. This worked for me :-)  
– Kenji Noguchi Dec 17 '14 at 19:20

2 the link, [pypi.python.org/pypi/pydot2](http://pypi.python.org/pypi/pydot2), is broken but `pip install pydot2` works and this link, [pypi.python.org/pypi/pydot2/1.0.32](http://pypi.python.org/pypi/pydot2/1.0.32), works. – Mark Mikofski Feb 17 '15 at 19:45

```
$ sudo pip uninstall pydot
```

```
$ sudo pip install pydot2
```

See the following link: [http://infidea.net/troubleshooting-couldnt-import-dot\\_parser-loading-of-dot-files-will-not-be-possible/](http://infidea.net/troubleshooting-couldnt-import-dot_parser-loading-of-dot-files-will-not-be-possible/)

answered Jun 29 '15 at 5:04



Jing Zhang

61 1 1

While this link may answer the question, it is better to include the essential parts of the answer here and provide the link for reference. Link-only answers can become invalid if the linked page changes. –

Ethan Furman Jun 29 '15 at 6:55

The solution was not to install pydot from somewhere, but "python-pydot" from official ubuntu repositories.

edited Aug 25 '13 at 20:40

answered Apr 11 '13 at 15:29



Sadik

1,104 1 21 53

As of 25-Aug-2013 `pip install python-pydot` does not work for me (distribution not found); `pip install pydot` does. So I don't think it's that `pydot` is necessarily unofficial. Perhaps you were installing via an OS distribution instead? – [Owen S.](#) Aug 25 '13 at 19:38

3 Not with `pip`, `sudo apt-get install python-pydot` did it for me. – [Sadik](#) Aug 25 '13 at 20:38

That would probably work because Ubuntu currently has `python-pyparsing` at 1.5.2, which avoids the version incompatibility listed above. I went with the fix above and haven't had problems since. Thanks! – [Owen S.](#) Aug 25 '13 at 20:41

1 Unfortunately in Ubuntu as of Saucy `pyparsing` has been upgraded but `pydot` has not been patched appropriately. – [Tully](#) May 20 '14 at 6:18

1 I've filed a ticket to fix the Ubuntu package: [bugs.launchpad.net/ubuntu/+source/pydot/+bug/1321135](https://bugs.launchpad.net/ubuntu/+source/pydot/+bug/1321135) – [Tully](#) May 20 '14 at 6:45

There are now at least 2 more versions that appear to support `PyParsing-2` and `Python-3`:

- [PyDotPlus](#) by [Carlos Jenkins](#) with a nice `travis` buildbot and fancy [documentation](#). However you will need to change its folder name from `site-packages\pydotplus` to `site-packages\pydot` for it to work with existing programs that import `pydot`.
- [pydot3k](#) by [bmcorser](#). **Sadly, did not work!**
- [prologic/pydot](#) by James Mills linked to from the official `pydot` Google code page as ...  

a branch for Python 3 compatibility
- and here is a working link to David Villa's `pydot2` which works fine:  
<https://pypi.python.org/pypi/pydot2/1.0.32>

answered Feb 17 '15 at 20:05



[Mark Mikofski](#)

7,311 1 23 40

This worked for me (Mac OS X 10.9 with Python 2.7.10 on Anaconda):

```
conda uninstall pydot
```

Then,

```
conda install pydot
```

Pyparsing is then downgraded (from 2.x to 1.5.7) upon pydot's installation. Future Googlers: this allowed me to install and import Theano correctly.

answered Aug 10 '15 at 1:29



[scottlittle](#)

395 3 16

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I had the problem again and my above solution did not work. If that is true for you and you are also using Anaconda on a Mac with El Capitan, try this:

```
conda install --channel https://conda.anaconda.org/RMG graphviz`  
conda install --channel https://conda.anaconda.org/RMG pydot
```

answered Jan 28 at 2:57



[scottlittle](#)

395 3 16

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On OSX Mavericks the following did the trick... I got the same error but at the bottom there was also a complaint that the graphviz executable was not present... I think the problem was i had installed graphviz prior to the other modules?

```
brew uninstall graphviz  
brew install graphviz
```

answered Jan 14 '15 at 14:58



[ecordo](#)

21 1

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this did not work for me :( – [Climbs\\_lika\\_Spyder](#) Jun 16 '15 at 18:31

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worked for MacOS El capitan – [Yauhen](#) Jan 13 at 15:38

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Worked for me too. TY – [Err Hunter](#) May 3 at 12:31

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You need to downgrade pyparsing from version 2.x to version 1.5.7 to get pydot to work correctly.

For win-64, using Conda, this worked for me:

```
conda install -c https://conda.anaconda.org/TrentonOliphant pyparsing=1.5.7
```

I then disabled/uninstalled the 2.x version and reloaded pyparsing in my script:

```
pyparsing = reload(pyparsing)
pydot = reload(pydot)
```

To check whether you have the right version running:

```
print pyparsing.__version__
```

answered Apr 14 at 8:42



[Sander van den Oord](#)

103 1 5

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