Anaconda IDE的基本使用

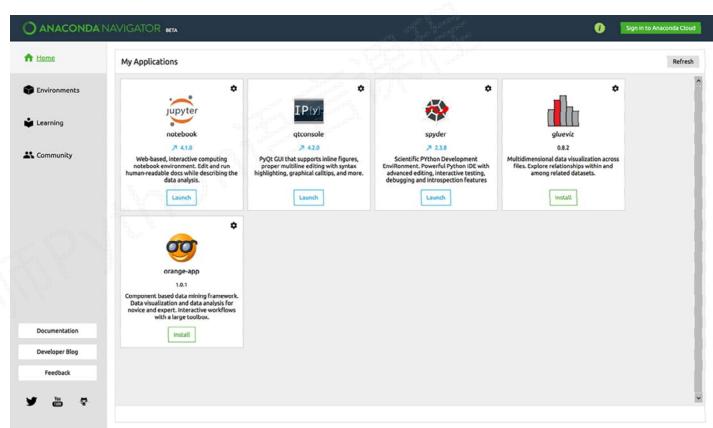


嵩天 www.python123.org

Anaconda

https://www.continuum.io

- □ 开源免费
- □ 支持近800个第三方库
- □ 包含多个主流工具
- □ 适合数据计算领域开发
- □ Win/Linux/OS X



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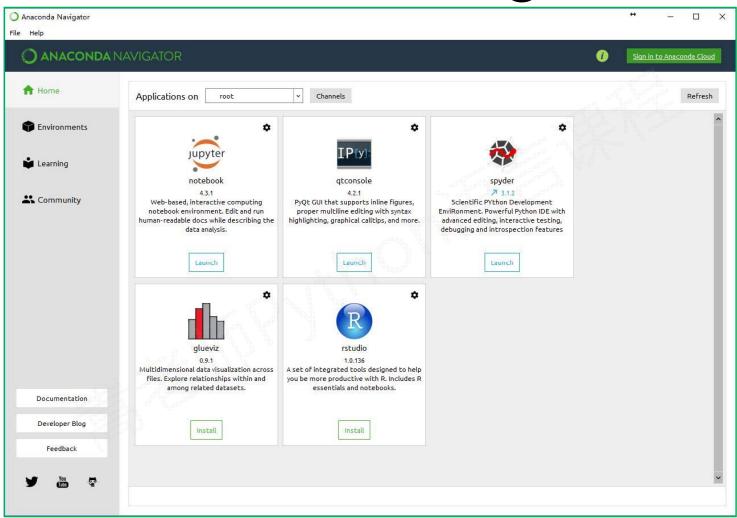




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Download for macOS Download for Windows Download for Linux Python 3.6 version Anaconda 4.3.1 For Windows 64-BIT INSTALLER (422M) Anaconda is BSD licensed which gives you permission to use Anaconda commercially and for redistribution. 32-BIT INSTALLER (348M) Changelog 1. Download the installer 2. Optional: Verify data integrity with MD5 or SHA-256 More Python 2.7 version 3. Double-click the .exe file to install Anaconda and follow the instructions on the screen 64-BIT INSTALLER (414M) Behind a firewall? Use these zipped Windows installers 32-BIT INSTALLER (339M) For older versions of Anaconda installers, see the Anaconda installer archive For long-term support of the packages found in the Anaconda archives, please contact us.

Anaconda Navigator



Anaconda是一个集成各类Python工具的集成平台

包管理和环境管理工具:conda

conda: 一个工具,用于包管理和环境管理,其中:

包管理与pip类似,管理Python第三方库

环境管理能够允许用户使用不同版本Python,并能灵活切换

anaconda:一个集合,包括conda、某版本Python、一批第三方库等

conda将工具、第三方库、Python版本、conda都当作包,同等对待

Win平台: cmd , 执行 conda --version 获取conda版本 执行 conda update conda 升级conda

```
D:\pycodes>conda --version
conda 4.3.8

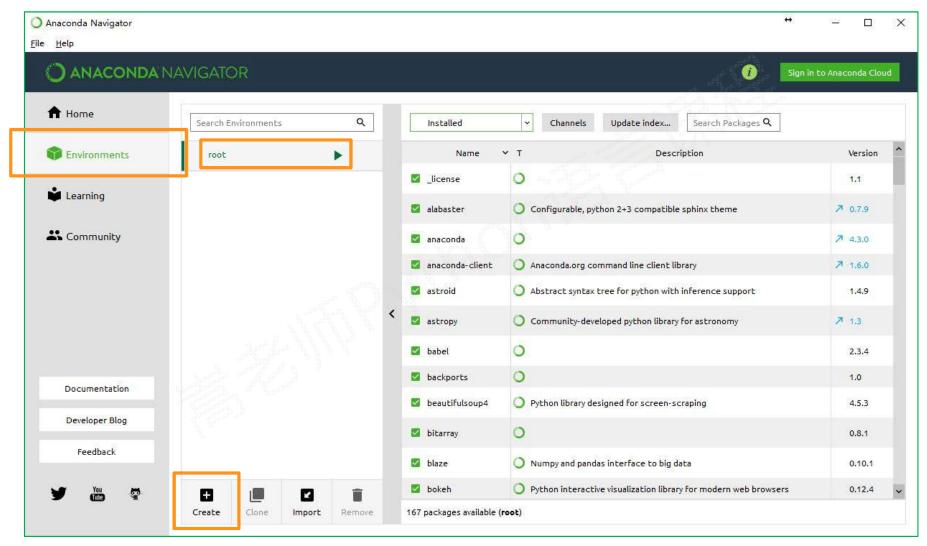
D:\pycodes>conda update conda
Fetching package metadata ......
Solving package specifications: .

Package plan for installation in environment C:\Users\Tian Song\Anaconda3:

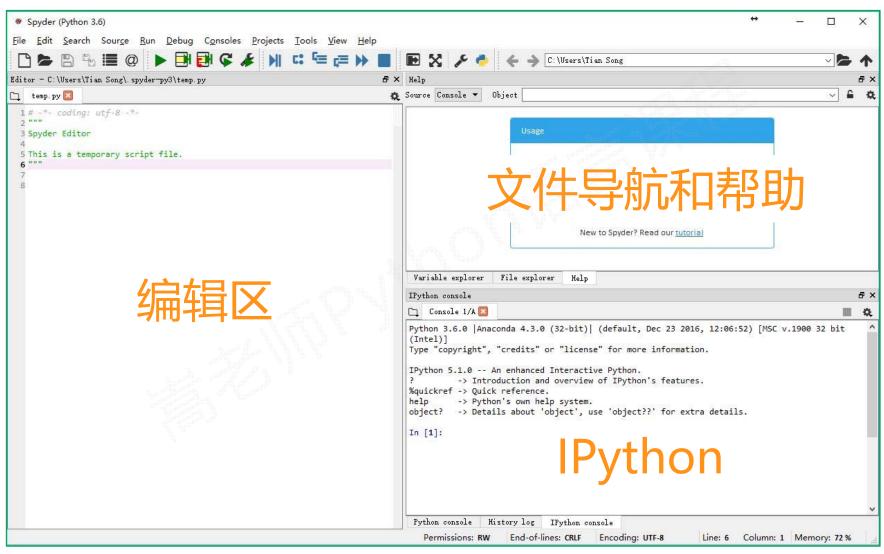
The following packages will be UPDATED:

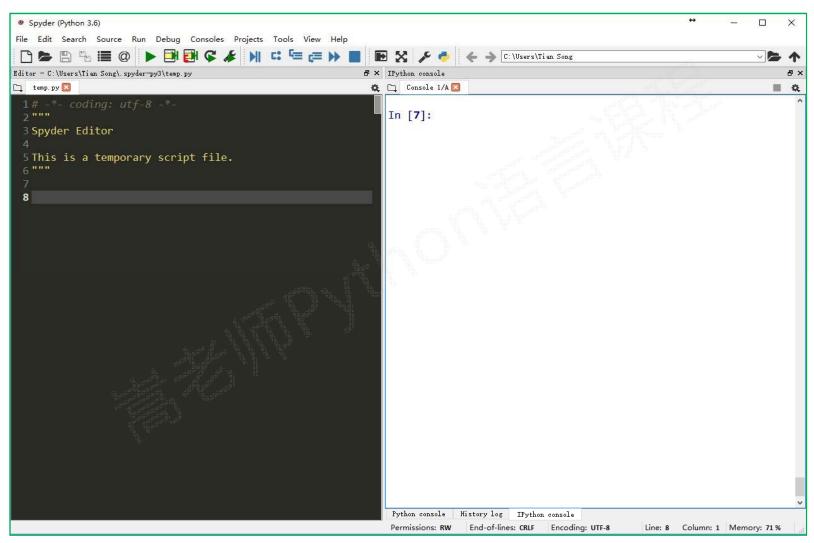
conda: 4.3.8-py36_0 --> 4.3.14-py36_1

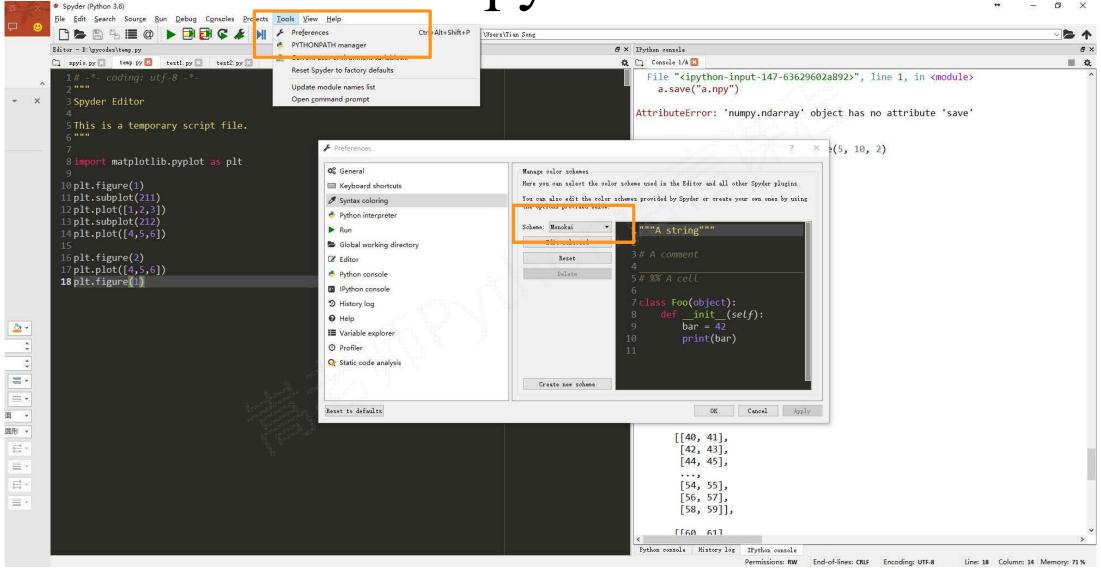
Proceed ([y]/n)? y_
```



编程工具: Spyder





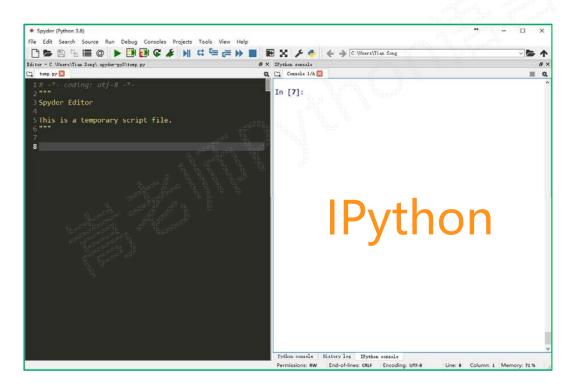


交互式编程环境:IPython

IPython



IPython是一个功能强大的交互式shell 适合进行交互式数据可视化和GUI相关应用

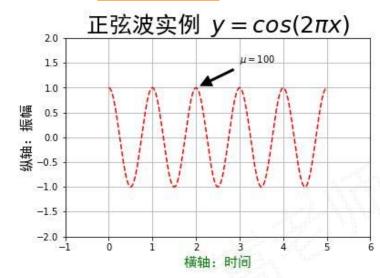


IPython的?

```
In [153]: import numpy as np
                                      变量前或后增加?将显示一些通用信息
In [154]: a = np.arange(10)
In [155]: a
                                                  包括函数对应的源代码
Out[155]: array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9])
In [156]: a?
               ndarray
Type:
String form:
               [0 1 2 3 4 5 6 7 8 9]
Length:
               10
File:
               c:\users\tian song\anaconda3\lib\site-packages\numpy\ init .py
               <no docstring>
Docstring:
Class docstring:
ndarray(shape, dtype=float, buffer=None, offset=0,
       strides=None, order=None)
An array object represents a multidimensional, homogeneous array
of fixed-size items. An associated data-type object describes the
format of each element in the array (its byte-order, how many bytes it
occupies in memory, whether it is an integer, a floating point number,
or something else, etc.)
```

IPython的%run命令





%run用于运行.py程序

注意:%run在一个空的命名空间执行%

IPython的%魔术命令

常用命令	说明
%magic	显示所有魔术命令
%hist	IPython命令的输入历史
%pdb	异常发生后自动进入调试器
%reset	删除当前命名空间中的全部变量或名称
%who	显示Ipython当前命名空间中已经定义的变量
%time <i>statement</i>	给出代码的执行时间, <i>statement</i> 表示一段代码
%timeit <i>statement</i>	多次执行代码,计算综合平均执行时间

IPython的%魔术命令

IPython

Anaconda





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