

Python开发环境

- ◎ Python语言简介
- ◎ Python集成开发环境
- ◎ Python IDLE

Python语言简介



- ◎ 荷兰人Guido 1989年发明
- ◎ 面向对象的解释型计算机程序设计语言
- ◎ 设计哲学是“优雅”、“明确”、“简单”
- ◎ 自由软件
- ◎ 可以移植到多平台上

Python集成开发环境

- ◎ IDLE: Python安装包内置开发环境
- ◎ PyCharm : 由著名的JetBrains公司开发, 带有一整套可以帮助用户在使用Python语言开发时提高其效率的工具。
- ◎ Spyder: 安装Anaconda自带的高级IDE,与Matlab开发环境类似。
- ◎ jupyter:安装Anaconda自带的高级IDE, 数据科学家首选开发环境
- ◎ Python Tutor:在线开发环境, 网址是<http://www.pythontutor.com>

Python IDLE开发环境

- Python : <https://www.python.org/downloads>
- 选择Python版本
- 选择操作系统

Files

Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		9de6494314ea199e3633211696735f65	22710891	SIG
XZ compressed source tarball	Source release		1325134dd525b4a2c3272a1a0214dd54	16992824	SIG
Mac OS X 64-bit/32-bit installer	Mac OS X	for Mac OS X 10.6 and later	9fba50521dffa9238ce85ad640abaa92	27778156	SIG
Windows help file	Windows		17cc49512c3a2b876f2ed8022e0afe92	8041937	SIG
Windows x86-64 embeddable zip file	Windows	for AMD64/EM64T/x64, not Itanium processors	d2fb546fd4b189146dbefeba85e7266b	7162335	SIG
Windows x86-64 executable installer	Windows	for AMD64/EM64T/x64, not Itanium processors	bee5746dc6ece6ab49573a9f54b5d0a1	31684744	SIG
Windows x86-64 web-based installer	Windows	for AMD64/EM64T/x64, not Itanium processors	21525b3d132ce15cae6ba96d74961b5a	1320128	SIG
Windows x86 embeddable zip file	Windows		15802be75a6246070d85b87b3f43f83f	6400788	SIG
Windows x86 executable installer	Windows		67e1a9bb336a5eca0efcd481c9f262a4	30653888	SIG
Windows x86 web-based installer	Windows		6c8ff748c554559a385c986453df28ef	1294088	SIG

安装选项

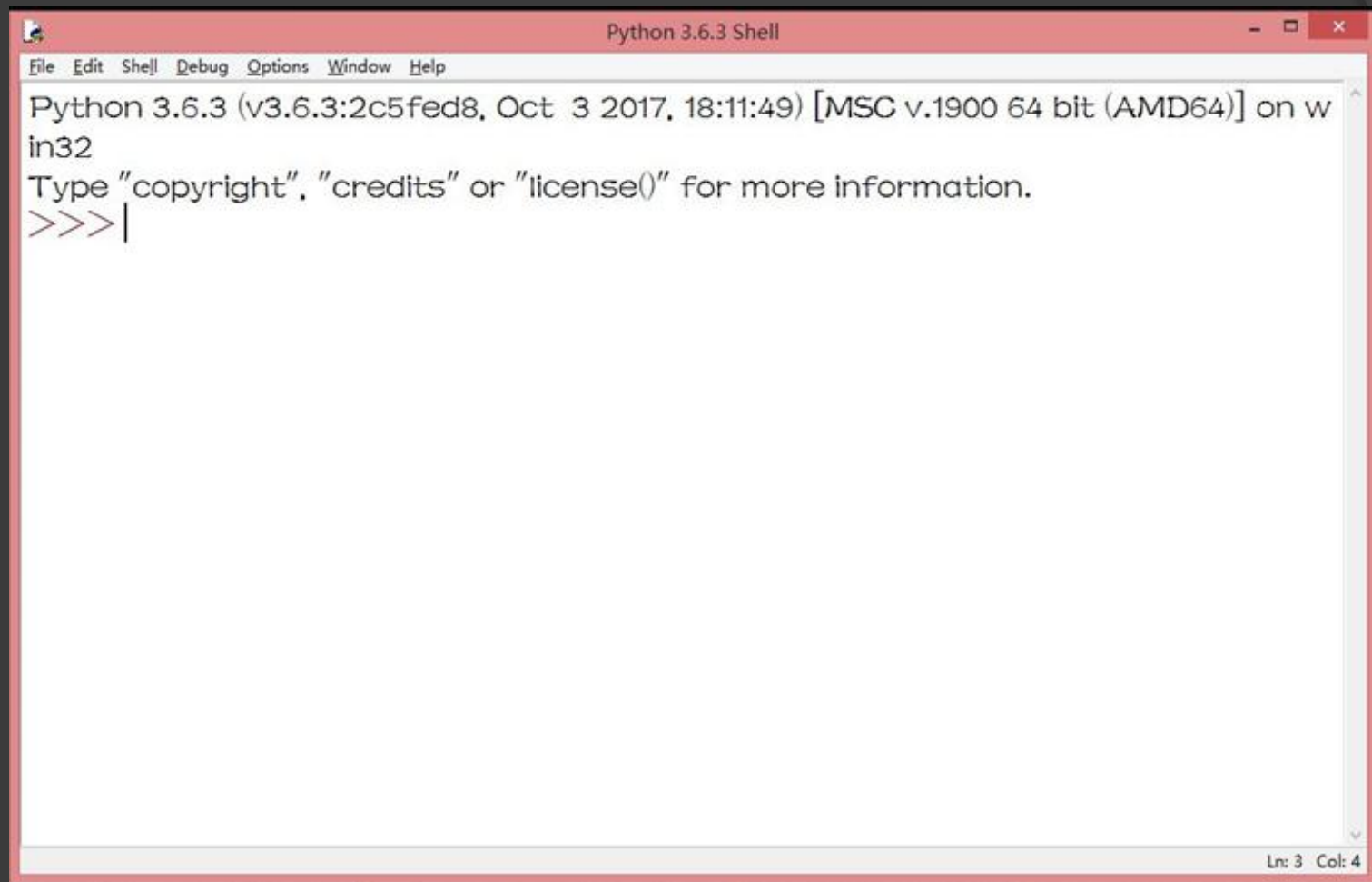


Python程序编写

两种方式:

- ① 交互式
- ② 文件式

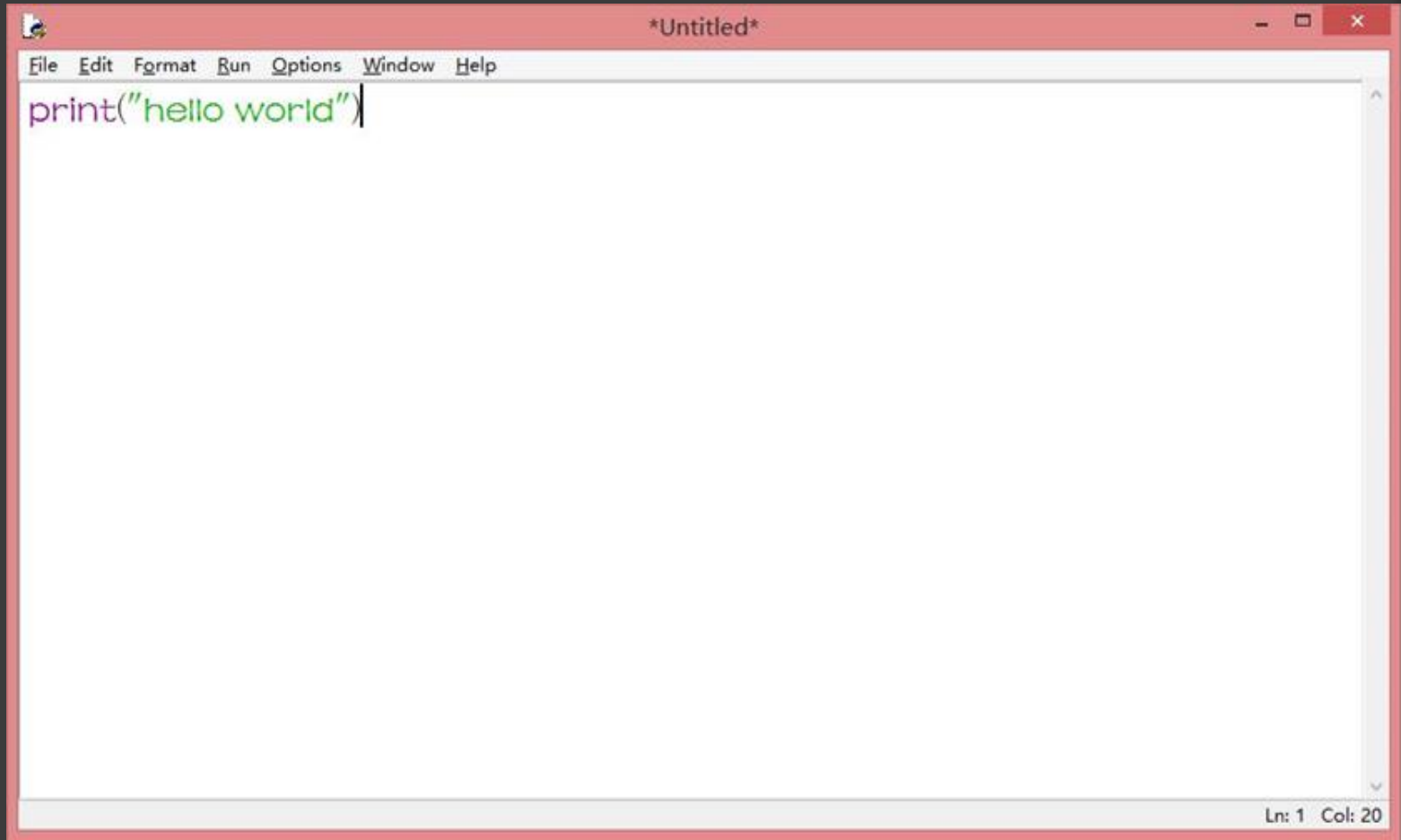
交互式解释器执行



The image shows a screenshot of a Python 3.6.3 Shell window. The window has a red title bar with the text "Python 3.6.3 Shell" and standard window control buttons. Below the title bar is a menu bar with options: File, Edit, Shell, Debug, Options, Window, and Help. The main text area displays the following information: "Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 18:11:49) [MSC v.1900 64 bit (AMD64)] on win32", followed by "Type 'copyright', 'credits' or 'license()' for more information.", and then the interactive prompt ">>>". A vertical cursor is positioned after the third prompt character. At the bottom right of the window, the status bar shows "Ln: 3 Col: 4".

```
Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 18:11:49) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>|
```

文件式



运行程序:命令行环境运行

- ④ d:>python hello.py
- ④ hello.py是python程序, 放在d盘根目录
- ④ hello.py:
 print("hello world")