

第一课 Python软件的获取与安装

青少年软件编程等级考试Python标准公益课（1级）



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1989年圣诞节，为了打发无聊的圣诞节 而编写的一个编程语言

青少年软件编程等级考试Python标准公益课（1级）



全国青少年软件编程等级考试标准 (Python 语言)

V1.0.1



中國電子學會
Chinese Institute of Electronics



全国青少年电子信息科普创新联盟
National Youth Innovation Alliance for Electronic & Information Science Popularization

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二、考试目的

本标准不以评价教学为目的，考核内容不是按照学校要求设定，而是从软件开发所需要的技能和知识，以及国内编程教育的普及情况制定，主要以考查基础语法、算法和实践应用能力为主。本标准可基于 Python 的任何一种集成开发编程环境，推荐使用 3.5.2IDLE 开发环境。面向全国中小学校学生考查 Python 软件编程能力。

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Python——跨平台



Linux



Windows



Mac OS

Python2与python3

- 目前官网上共有2种主要版本，2.X版和3.X版
- Python正在朝3.X版进化，目前两个版本不兼容
- 2.X版的代码需要修改后，才能在3.X版上运行
- 在使用Python过程中，需要用到很多第三方库，需注意版本区别。

32位与64位

查看您的系统是32位还是64位？

"此电脑"或者"我的电脑"，鼠标右键——属性，出现如下图查看电脑系统类型（图中显示电脑系统类型是 **64** 位系统，安装 Python 则选择其名含有"adm64"字样的文件）：

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下载、安装

官网：**www.python.org**


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```
# Python 3: Simple arithmetic
>>> 1 / 2
0.5
>>> 2 ** 3
8
>>> 17 / 3 # classic division returns a float
5.666666666666667
>>> 17 // 3 # floor division
5
```

Intuitive Interpretation







Calculations are simple with Python, and expression syntax is straightforward: the operators `+`, `-`, `*` and `/` work as expected; parentheses `()` can be used for grouping. [More about simple math functions in Python 3.](#)

12345

Python is a programming language that lets you work quickly and integrate systems more effectively. >>> [Learn More](#)

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Python 3: Fib
>>> def fib(n):
>>> a, b =
>>> while a
>>> pri
>>> a,
>>> print()
>>> fib(1000)
0 1 1 2 3 5 8 1

All releases

Source code

Windows

Mac OS X

Other Platforms

License

Alternative Implementations

Download for Windows


Python 3.8.1

Note that Python 3.5+ cannot be used on Windows XP or earlier.


Not the OS you are looking for? Python can be used on many operating systems and environments.

View the full list of downloads.

Python is a programming language that lets you work quickly and integrate systems more effectively. >>> Learn More

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Python Releases for Windows

- [Latest Python 3 Release - Python 3.8.1](#)
- [Latest Python 2 Release - Python 2.7.17](#)

Stable Releases

- [Python 3.8.1 - Dec. 18, 2019](#)

Note that Python 3.8.1 cannot be used on Windows XP or earlier.

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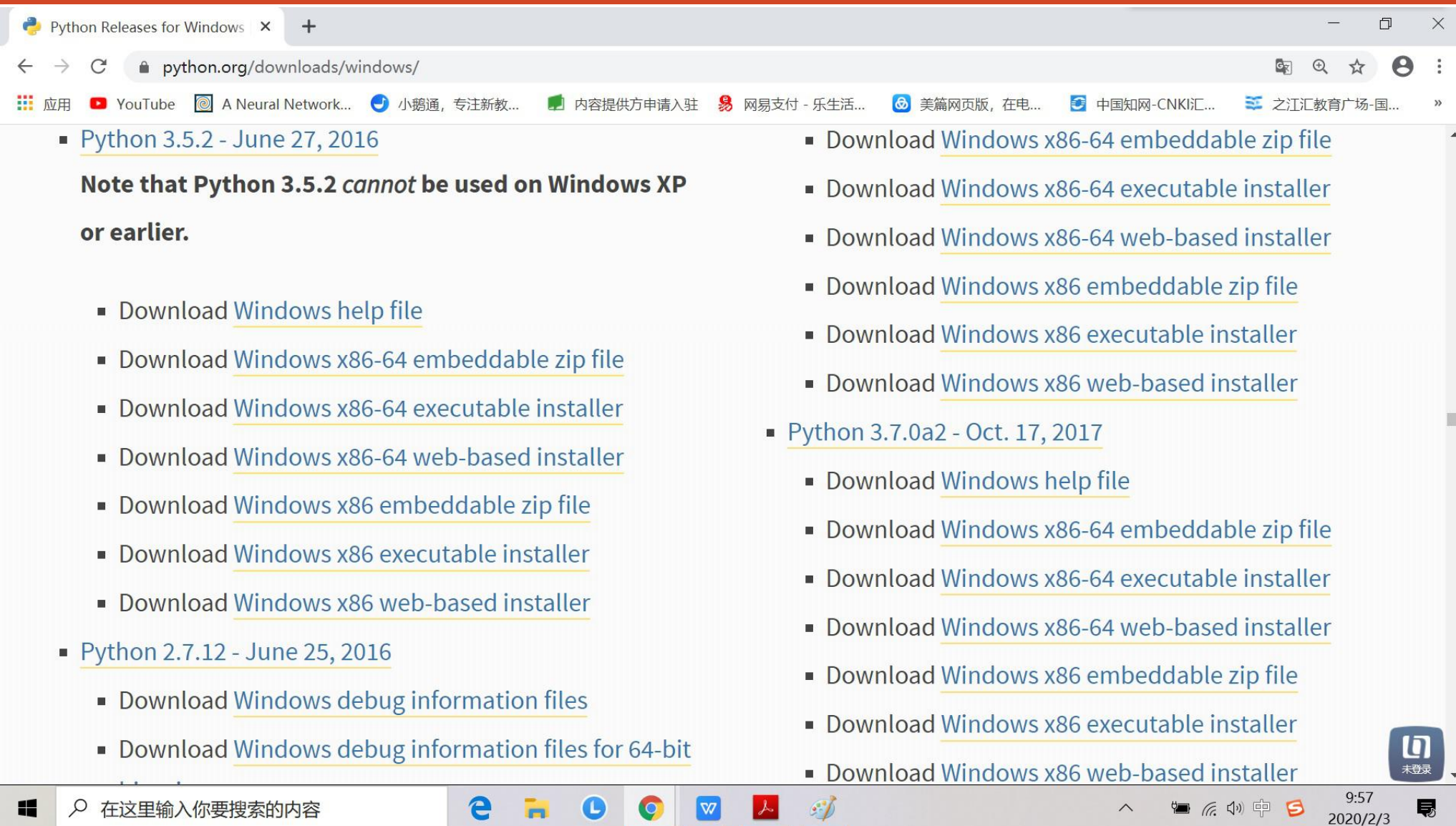
- Download [Windows help file](#)
- Download [Windows x86-64 MSI installer](#)
- Download [Windows x86 MSI installer](#)
- Python 3.4.5 - June 27, 2016
 - No files for this release.
- Python 3.5.2 - June 27, 2016

Note that Python 3.5.2 cannot be used on Windows XP or earlier.

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 - Download [Windows x86 executable installer](#)
 - Download [Windows x86 web-based installer](#)
- Python 2.7.12 - June 25, 2016
 - Download [Windows debug information files](#)
 - Download [Windows debug information files for 64-bit binaries](#)
 - Download [Windows help file](#)
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- Download [Windows x86 web-based installer](#)
- Python 3.7.0b1 - Jan. 31, 2018
 - Download [Windows help file](#)
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 - Download [Windows x86-64 executable installer](#)
 - Download [Windows x86-64 web-based installer](#)
 - Download [Windows x86 embeddable zip file](#)
 - Download [Windows x86 executable installer](#)
 - Download [Windows x86 web-based installer](#)
- Python 3.4.8rc1 - Jan. 23, 2018
 - No files for this release.
- Python 3.5.5rc1 - Jan. 23, 2018
 - No files for this release.
- Python 3.7.0a4 - Jan. 9, 2018
 - Download [Windows help file](#)
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The screenshot shows a web browser window with the address bar displaying 'python.org/downloads/windows/'. The page content is organized into two main sections for different Python versions. The first section is for 'Python 3.5.2 - June 27, 2016', which includes a note that this version cannot be used on Windows XP or earlier. It lists six download options: Windows help file, Windows x86-64 embeddable zip file, Windows x86-64 executable installer, Windows x86-64 web-based installer, Windows x86 embeddable zip file, and Windows x86 executable installer. The second section is for 'Python 3.7.0a2 - Oct. 17, 2017', which lists five download options: Windows help file, Windows x86-64 embeddable zip file, Windows x86-64 executable installer, Windows x86-64 web-based installer, and Windows x86 embeddable zip file. The browser's taskbar at the bottom shows various application icons and the system clock indicating 9:57 on 2020/2/3.

Python Releases for Windows

python.org/downloads/windows/

- Python 3.5.2 - June 27, 2016
 - Note that Python 3.5.2 cannot be used on Windows XP or earlier.
 - Download [Windows help file](#)
 - Download [Windows x86-64 embeddable zip file](#)
 - Download [Windows x86-64 executable installer](#)
 - Download [Windows x86-64 web-based installer](#)
 - Download [Windows x86 embeddable zip file](#)
 - Download [Windows x86 executable installer](#)
 - Download [Windows x86 web-based installer](#)
- Python 2.7.12 - June 25, 2016
 - Download [Windows debug information files](#)
 - Download [Windows debug information files for 64-bit](#)
- Download [Windows x86-64 embeddable zip file](#)
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- Download [Windows x86 executable installer](#)
- Download [Windows x86 web-based installer](#)
- Python 3.7.0a2 - Oct. 17, 2017
 - Download [Windows help file](#)
 - Download [Windows x86-64 embeddable zip file](#)
 - Download [Windows x86-64 executable installer](#)
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Python 3.5.2 (64-bit) Setup

Install Python 3.5.2 (64-bit)

Select Install Now to install Python with default settings, or choose Customize to enable or disable features.

→ Install Now

C:\Users\ThinkPad\AppData\Local\Programs\Python\Python35

Includes IDLE, pip and documentation
Creates shortcuts and file associations

→ Customize installation

Choose location and features

☐ Install launcher for all users (recommended)

☒ Add Python 3.5 to PATH

Cancel

python
for
windows

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Python 3.5.2 (64-bit) Setup

Optional Features

☒ Documentation

Installs the Python documentation file.

☒ pip

Installs pip, which can download and install other Python packages.

☒ tcl/tk and IDLE

Installs tkinter and the IDLE development environment.

☒ Python test suite

Installs the standard library test suite.

☒ py launcher ☐ for all users (requires elevation)

Use Programs and Features to remove the 'py' launcher.

Back

Next

Cancel

python
for
windows

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Python 3.5.2 (64-bit) Setup

Advanced Options

- ☒ Install for all users
- ☒ Associate files with Python (requires the py launcher)
- ☒ Create shortcuts for installed applications
- ☒ Add Python to environment variables
- ☒ Precompile standard library
- ☐ Download debugging symbols
- ☐ Download debug binaries (requires VS 2015 or later)

Customize install location

C:\Program Files\Python35

Browse

Back

Install

Cancel

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