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Введение в Python



История



Фото из Википедии

Создатель: Гвидо ван Россум

Год: примерно 1991

Официальный сайт:

<http://python.org>



Особенности Python

- Интерпретируемый язык
- Ясный синтаксис
- Полноценный универсальный язык
- Свободно-распространяемый интерпретатор

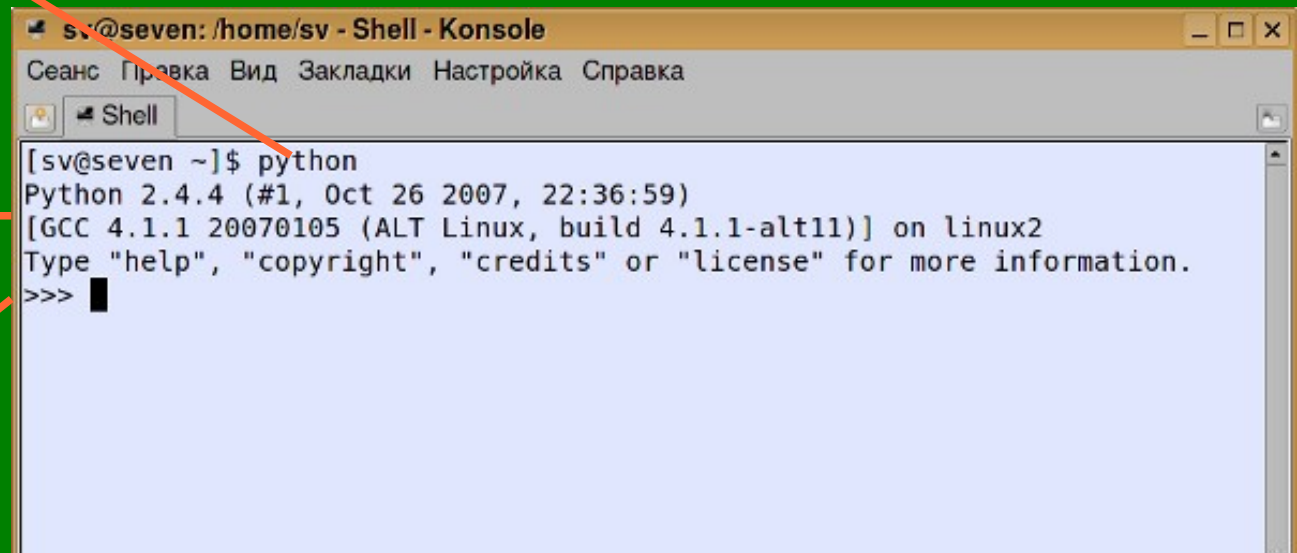


Запуск интерпретатора в консоли

Команда

Информация о
версии и др.

«Приглашение»



```
sv@seven: /home/sv - Shell - Konsole
Сеанс  Правка  Вид  Закладки  Настройка  Справка
Shell
[sv@seven ~]$ python
Python 2.4.4 (#1, Oct 26 2007, 22:36:59)
[GCC 4.1.1 20070105 (ALT Linux, build 4.1.1-alt11)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> █
```

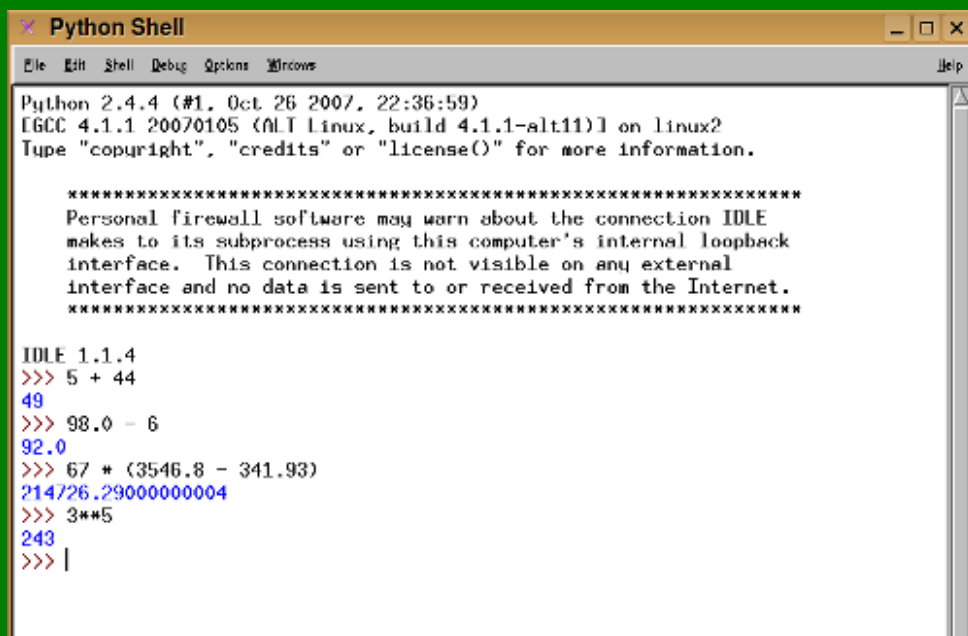


Работа интерпретатора

```
sv@seven: /home/sv - Shell - Konsole
Сеанс Правка Вид Закладки Настройка Справка
Shell
[sv@seven ~]$ python
Python 2.4.4 (#1, Oct 26 2007, 22:36:59)
[GCC 4.1.1 20070105 (ALT Linux, build 4.1.1-alt11)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> 2+7
9
>>> 3 * (6-4)
6
>>> 2.44 + 3.2/2
4.04
>>> 2**3
8
>>> 17 - 980/56.0
-0.5
>>> 7.9 * (6-4)
15.800000000000001
>>> █
```

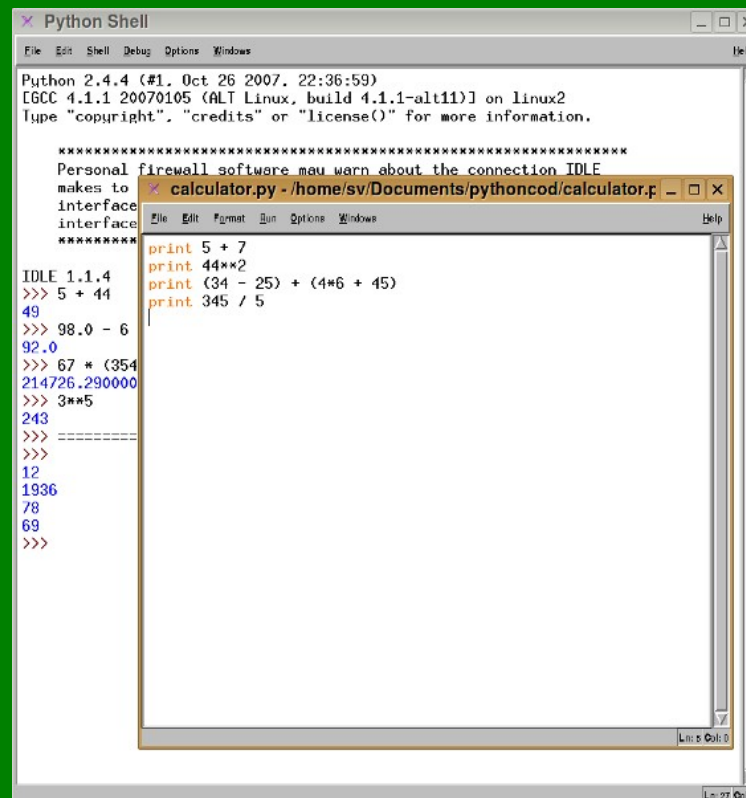


IDLE (среда разработки)



A screenshot of the Python Shell window in interactive mode. The window title is "Python Shell". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", and "Windows". The main text area shows the Python version (2.4.4), GCC version (4.1.1), and system information (ALT Linux, build 4.1.1-alt11) on linux2. It includes a warning about firewall software. Below this, the IDLE version (1.1.4) is shown, followed by several arithmetic operations being entered and their results displayed: `>>> 5 + 44` returns `49`, `>>> 98.0 - 6` returns `92.0`, and `>>> 67 * (3546.8 - 341.93)` returns `214726.290000000004`. The prompt `>>>` is followed by `3**5` returning `243`. The prompt is currently `>>> |`.

Интерактивный режим



A screenshot of the Python Shell window with a code editor window open. The Python Shell window title is "Python Shell" and shows the same version and system information as the previous screenshot. The code editor window title is "calculator.py - /home/sv/Documents/pythoncod/calculator.p...". The code editor contains the following Python code:

```
print 5 + 7
print 44**2
print (34 - 25) + (4*6 + 45)
print 345 / 5
```

The Python Shell window shows the execution of these commands: `>>> 5 + 44` returns `49`, `>>> 98.0 - 6` returns `92.0`, `>>> 67 * (3546.8 - 341.93)` returns `214726.290000000004`, and `>>> 3**5` returns `243`. The prompt is currently `>>>`.

Код в файле