

Jython Workbook(2012)

Get Jython Download:

- http://sourceforge.net/projects/jython/files/jython/2.5.2/jython_installer-2.5.2.jar/download

Installation

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[Jython 2.5.2 and 2.2.x](#)

[Basic Install](#)

Jython 2.5.2 and 2.2.1 are distributed as executable jar file installers. After [downloading](#) it, either double click the jython_installer-2.5.2.jar or run java with the -jar option

```
java -jar jython_installer-2.5.2.jar
```

This will start the regular GUI installer on most systems, or a console installer on headless systems. To force the installer to work in headless mode invoke the installer as:

```
java -jar jython_installer-2.5.2.jar --console
```

The installer will then walk through a similar set of steps in graphical or console mode: showing the license, selecting an install directory and JVM and actually copying Jython to the filesystem. After this completes, Jython is installed in the directory you selected. Executing a script in the install directory, jython on Unix-like systems or jython.bat on Windows, will start up the Jython console, which can be used to dynamically explore Jython and the Java runtime, or to run Jython scripts.

[Standalone mode](#)

The standalone option does no caching and so avoids the startup overhead (most likely at the cost of some speed in calling Java classes, but I have not profiled it)

You can try it out by running the installer:

```
$ java -jar jython_installer-2.5.2.jar
```

then when you come to the "Installation type" page, select "Standalone".

The installation will generate a jython.jar with the Python standard library (/Lib) files included, which can be run as:

```
$ java -jar jython.jar
```

Of course you can run scripts just by calling them as you might expect:

```
$ java -jar jython.jar script.py
```

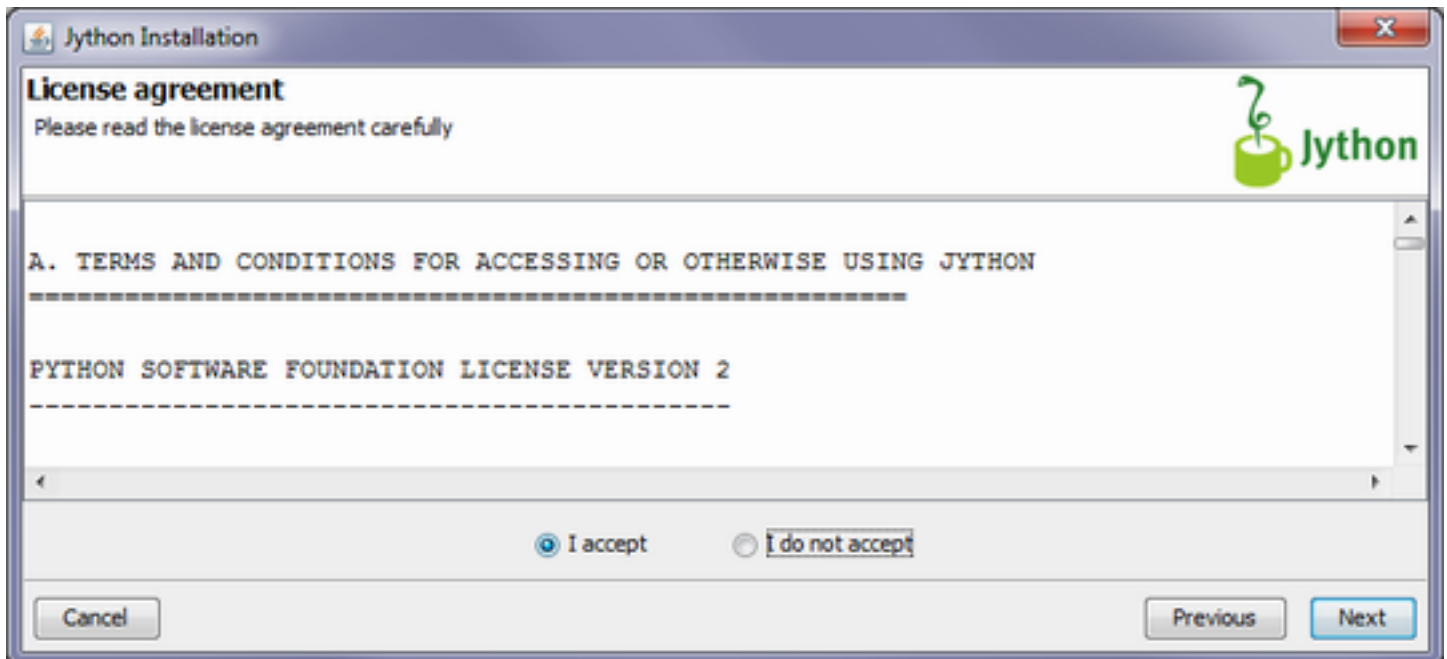
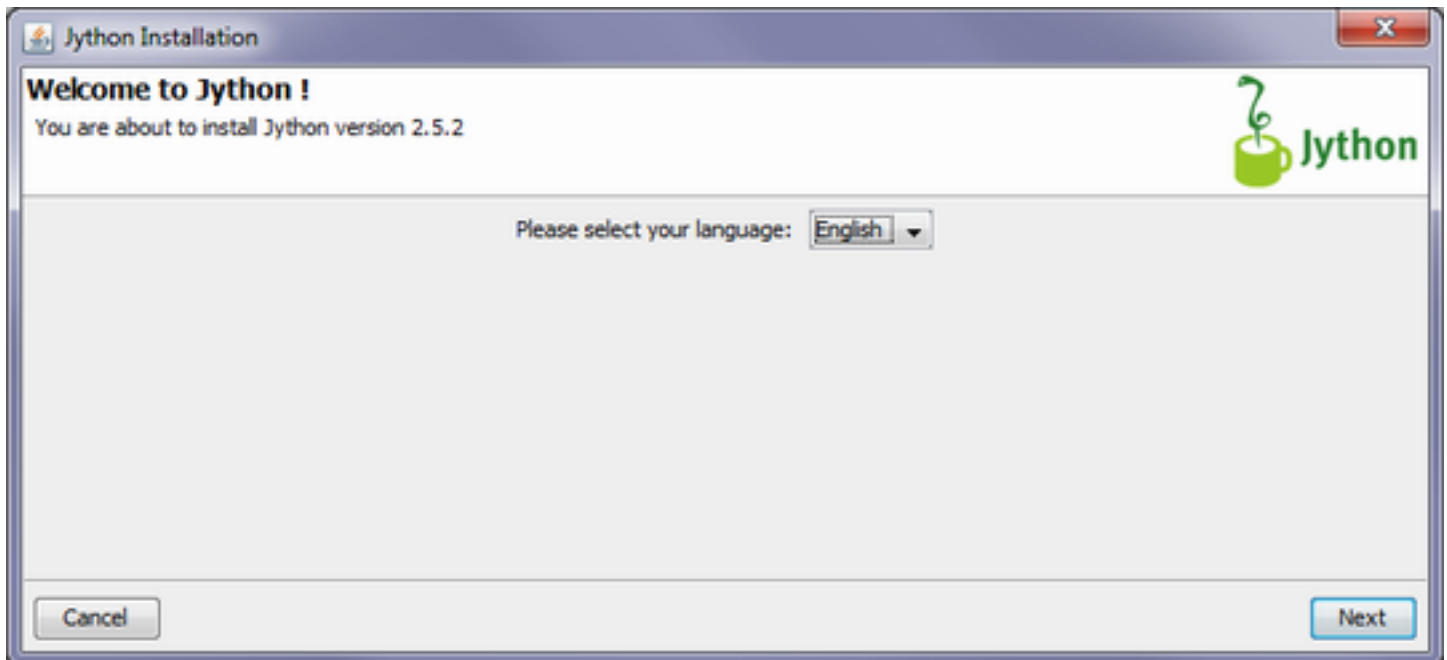
Or, add this file to the classpath of your application.

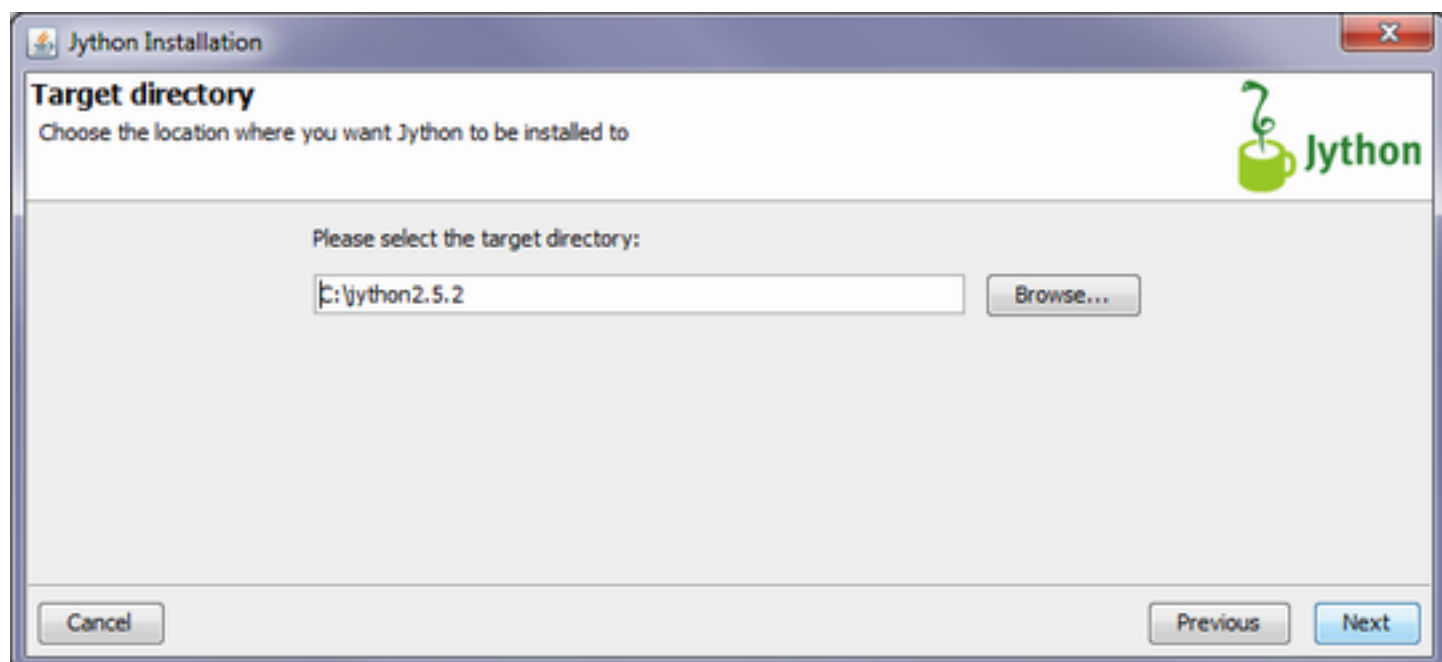
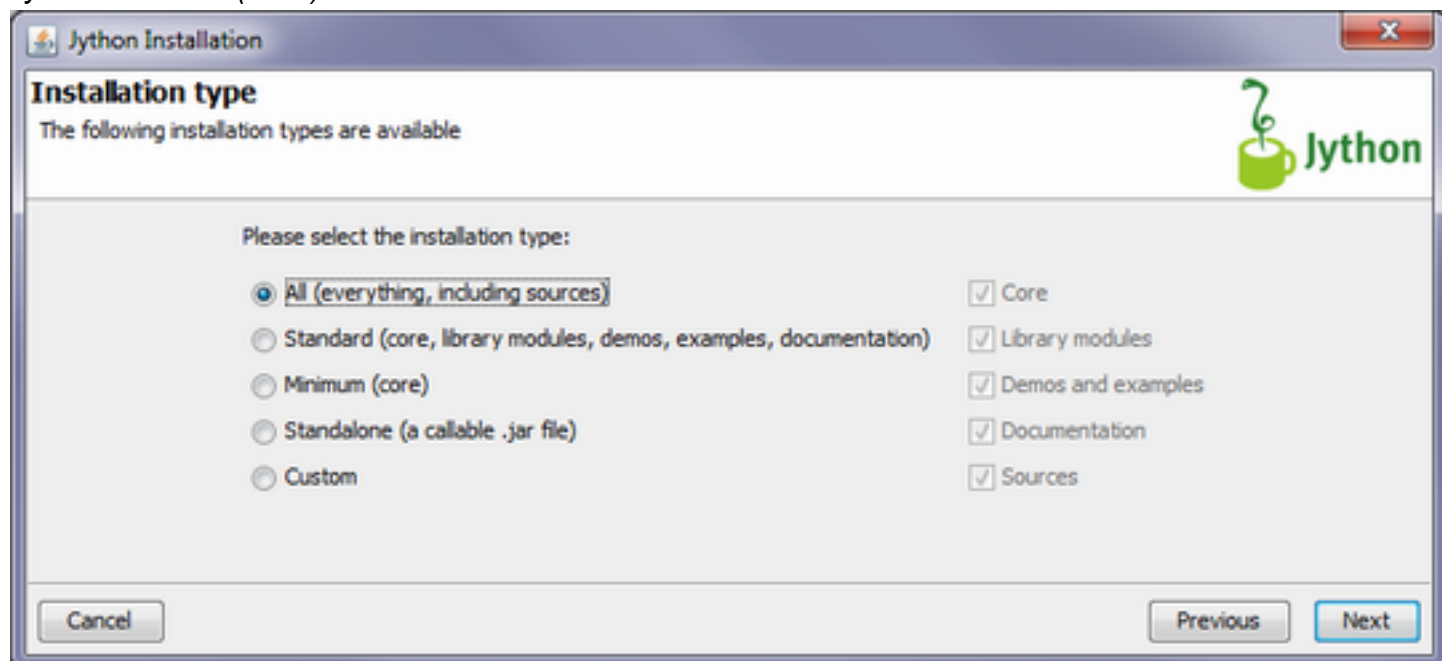
[Installation options](#)

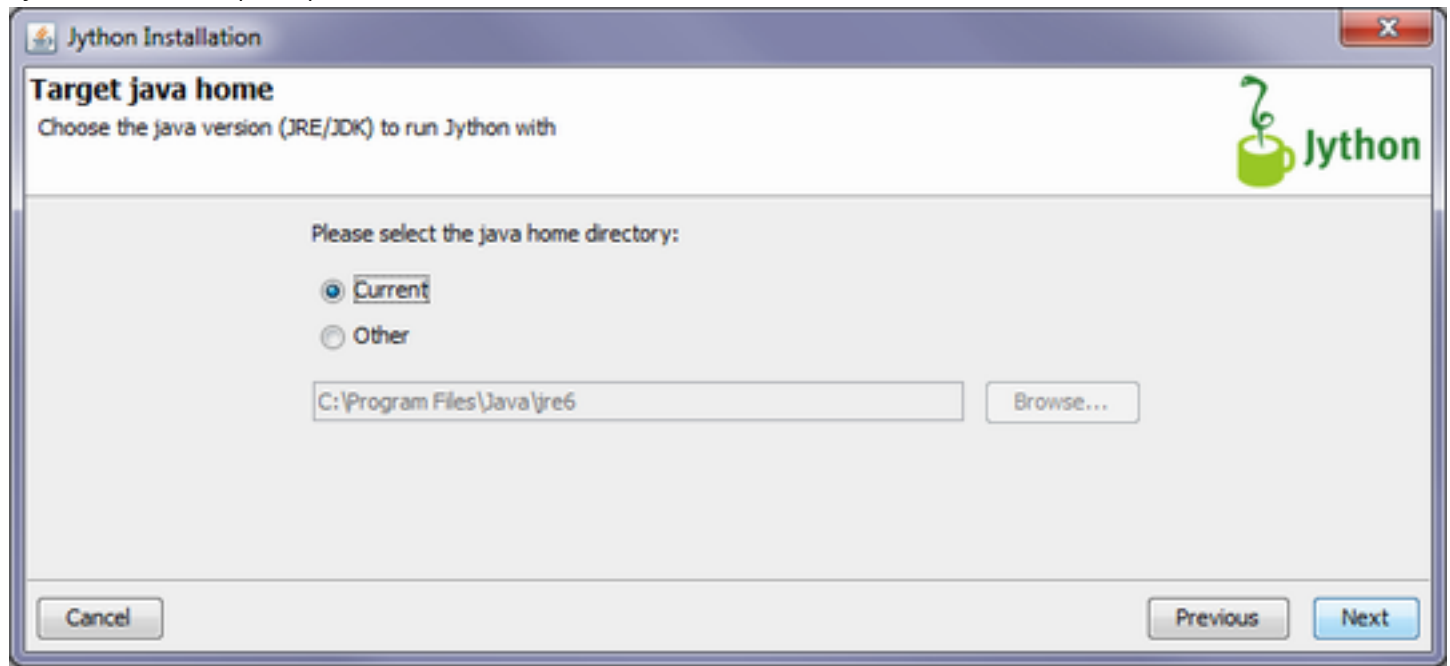
You can get a list of installer options (to install Jython unattended, for example) by running:

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```
$ java -jar jython_installer-2.5.2.jar --help
```







Jython Installation

Target java home
Choose the java version (JRE/JDK) to run Jython with

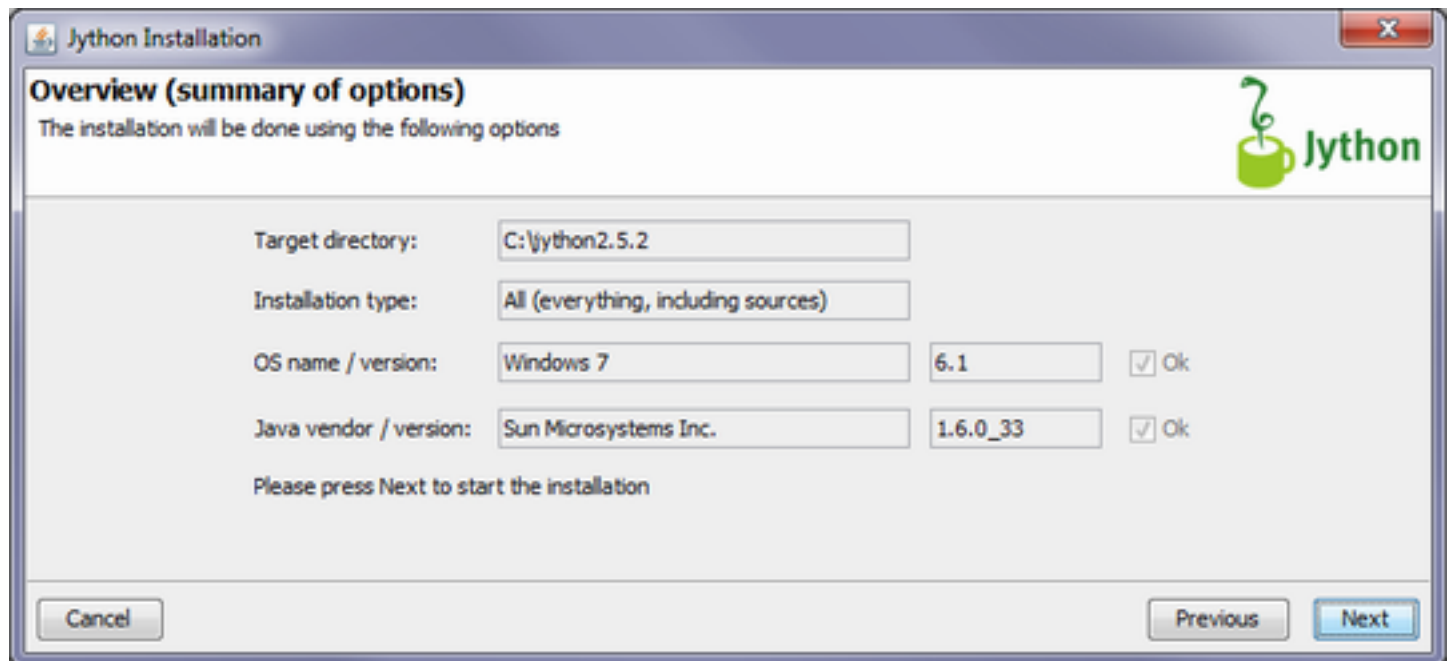
Please select the java home directory:

☒ Current
☐ Other

C:\Program Files\Java\jre6 Browse...

Cancel Previous Next

The screenshot shows the 'Target java home' step of the Jython installation. It prompts the user to choose a Java version. The 'Current' option is selected, and the path 'C:\Program Files\Java\jre6' is displayed in the text field. Navigation buttons 'Cancel', 'Previous', and 'Next' are at the bottom.



Jython Installation

Overview (summary of options)
The installation will be done using the following options

Target directory: C:\jython2.5.2

Installation type: All (everything, including sources)

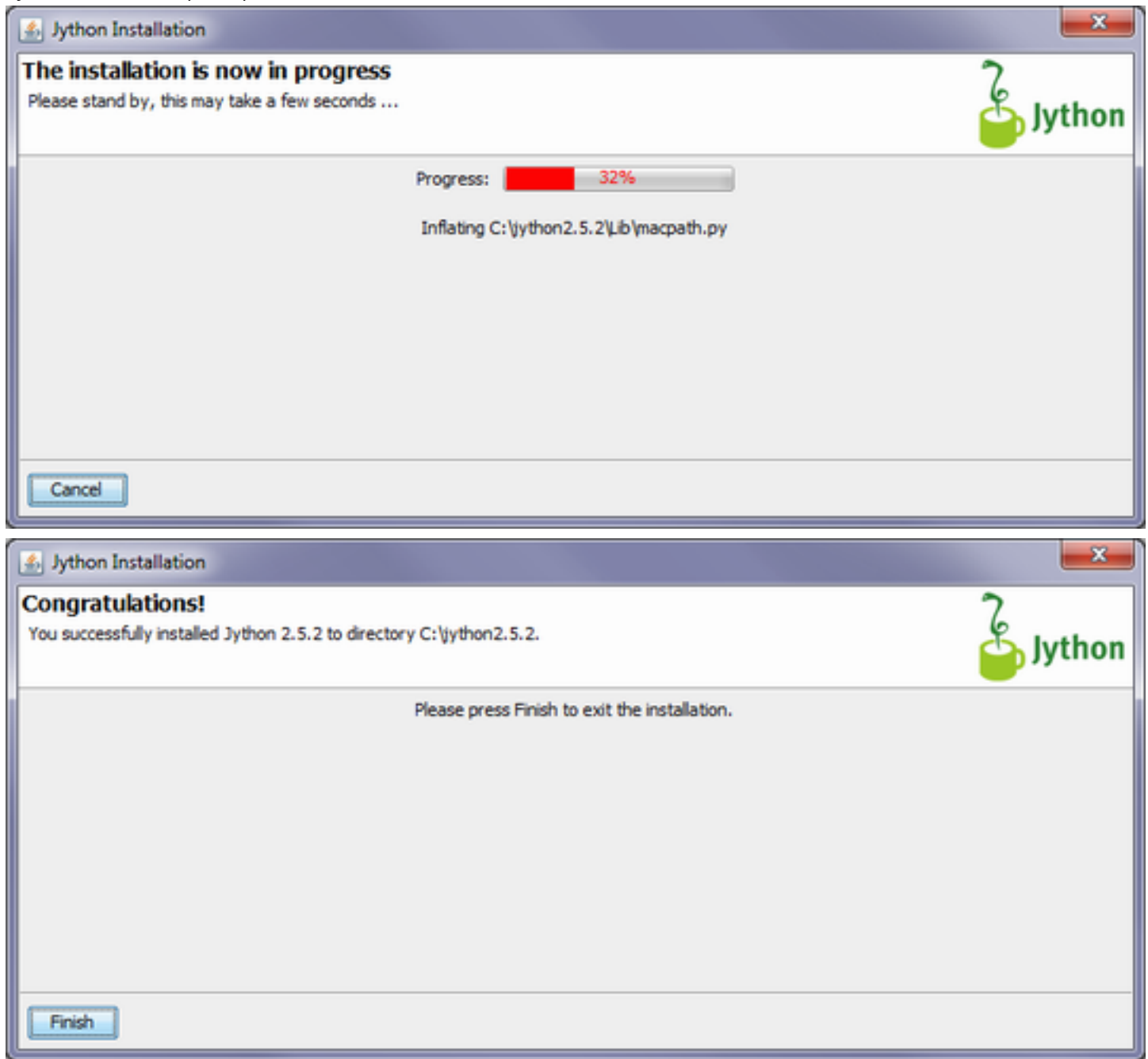
OS name / version: Windows 7 6.1 ☒ Ok

Java vendor / version: Sun Microsystems Inc. 1.6.0_33 ☒ Ok

Please press Next to start the installation

Cancel Previous Next

The screenshot shows the 'Overview (summary of options)' step. It summarizes the selected installation options: Target directory (C:\jython2.5.2), Installation type (All), OS (Windows 7, 6.1), and Java vendor/version (Sun Microsystems Inc., 1.6.0_33). Both OS and Java options are marked as 'Ok'. A message at the bottom says 'Please press Next to start the installation'. Navigation buttons 'Cancel', 'Previous', and 'Next' are at the bottom.



Testing Installation

```
C:\jython2.5.2>jython.bat
*sys-package-mgr*: processing new jar, 'C:\jython2.5.2\jython.jar'
*sys-package-mgr*: processing new jar, 'C:\Program Files (x86)
\QuickTime\QTSystem\QTJava.zip'
*sys-package-mgr*: processing new jar, 'C:\Program
Files\Java\jre6\lib\resources.jar'
*sys-package-mgr*: processing new jar, 'C:\Program Files\Java\jre6\lib\rt.jar'
*sys-package-mgr*: processing new jar, 'C:\Program Files\Java\jre6\lib\jsse.jar'
*sys-package-mgr*: processing new jar, 'C:\Program Files\Java\jre6\lib\jce.jar'
```

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```
*sys-package-mgr*: processing new jar, 'C:\Program
Files\Java\jre6\lib\charsets.jar'
*sys-package-mgr*: processing new jar, 'C:\Program
Files\Java\jre6\lib\ext\dnsns.jar'
*sys-package-mgr*: processing new jar, 'C:\Program
Files\Java\jre6\lib\ext\localedata.jar'
*sys-package-mgr*: processing new jar, 'C:\Program
Files\Java\jre6\lib\ext\sunjce_provider.jar'
Jython 2.5.2 (Release_2_5_2:7206, Mar 2 2011, 23:12:06)
[Java HotSpot(TM) 64-Bit Server VM (Sun Microsystems Inc.)] on java1.6.0_33
Type "help", "copyright", "credits" or "license" for more information.
>>>
    • import os <enter>
    • import sys <enter>
    • for e in sys.path: print e <enter> <enter>
    • type exit() <enter> (to leave interactive Jython)
>>> import os
>>> import sys
>>> for e in sys.path: print e
...

C:\jython2.5.2\Lib
__classpath__
__pyclasspath__ /
C:\jython2.5.2\Lib\site-packages
>>> exit()
```

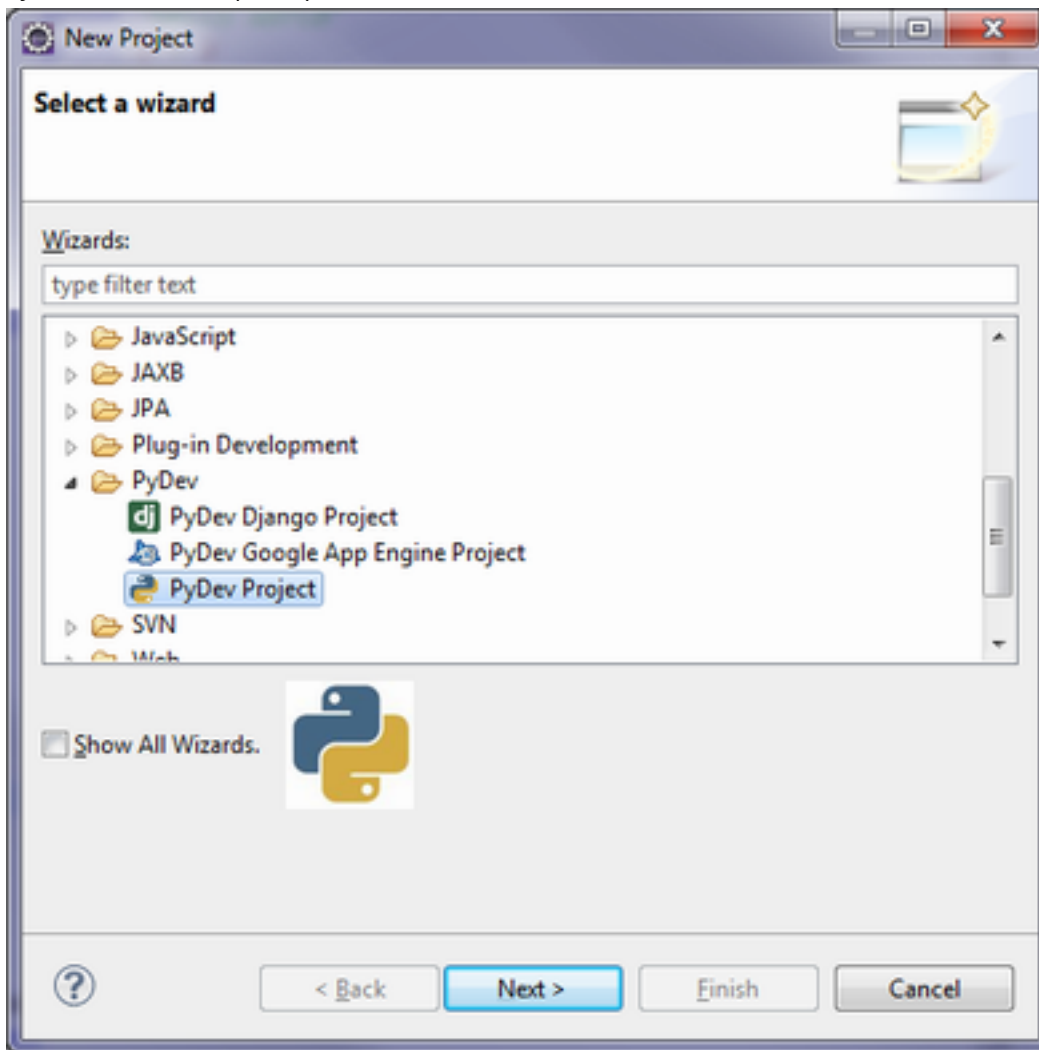
Configuring Eclipse

Open Python Workspace

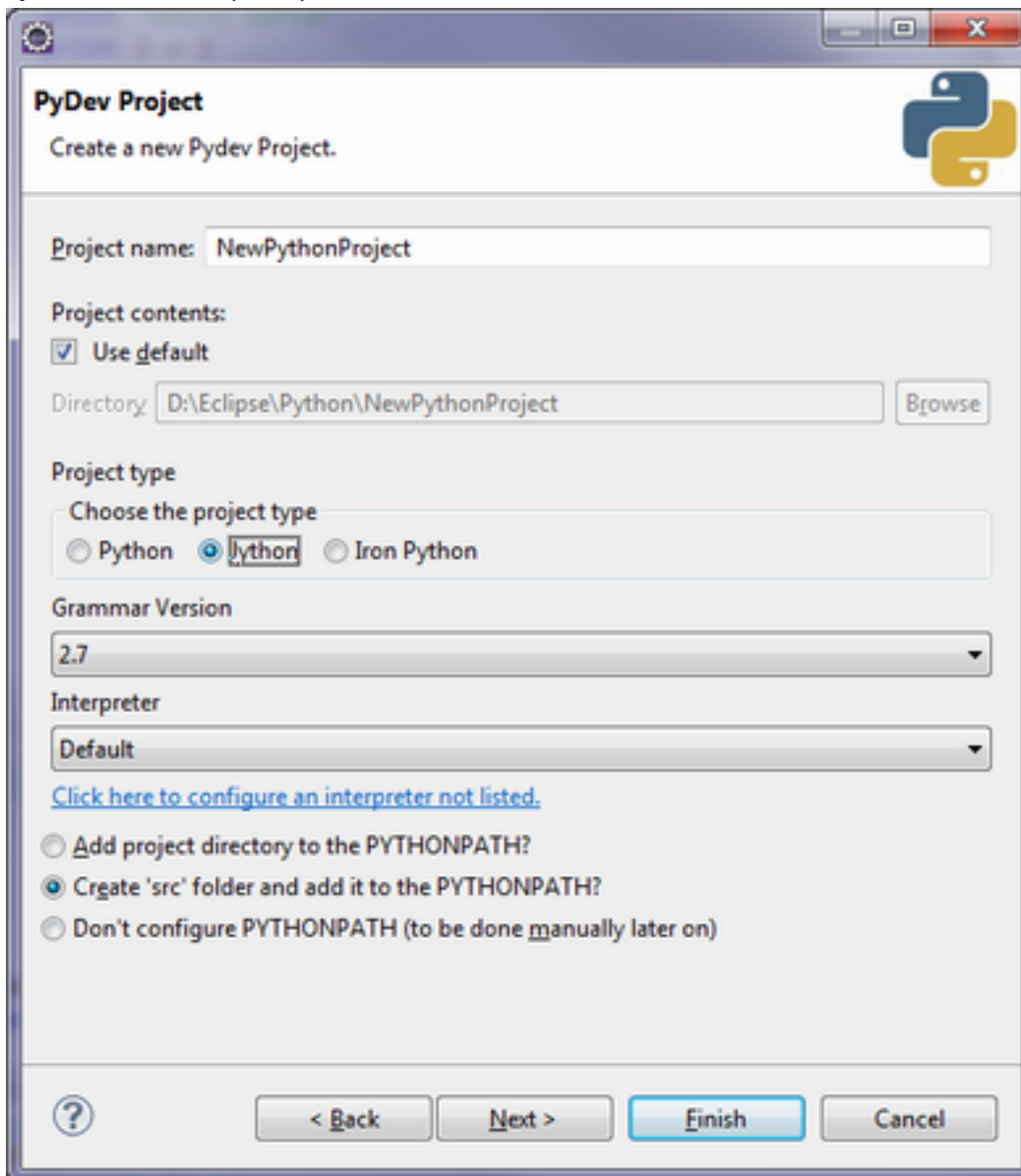
New > PyDev Project

Jython Interpreter: D:\lib\jython2.5.2\jython.jar

New > PyDev Project



PyDev Project Settings(Jython)

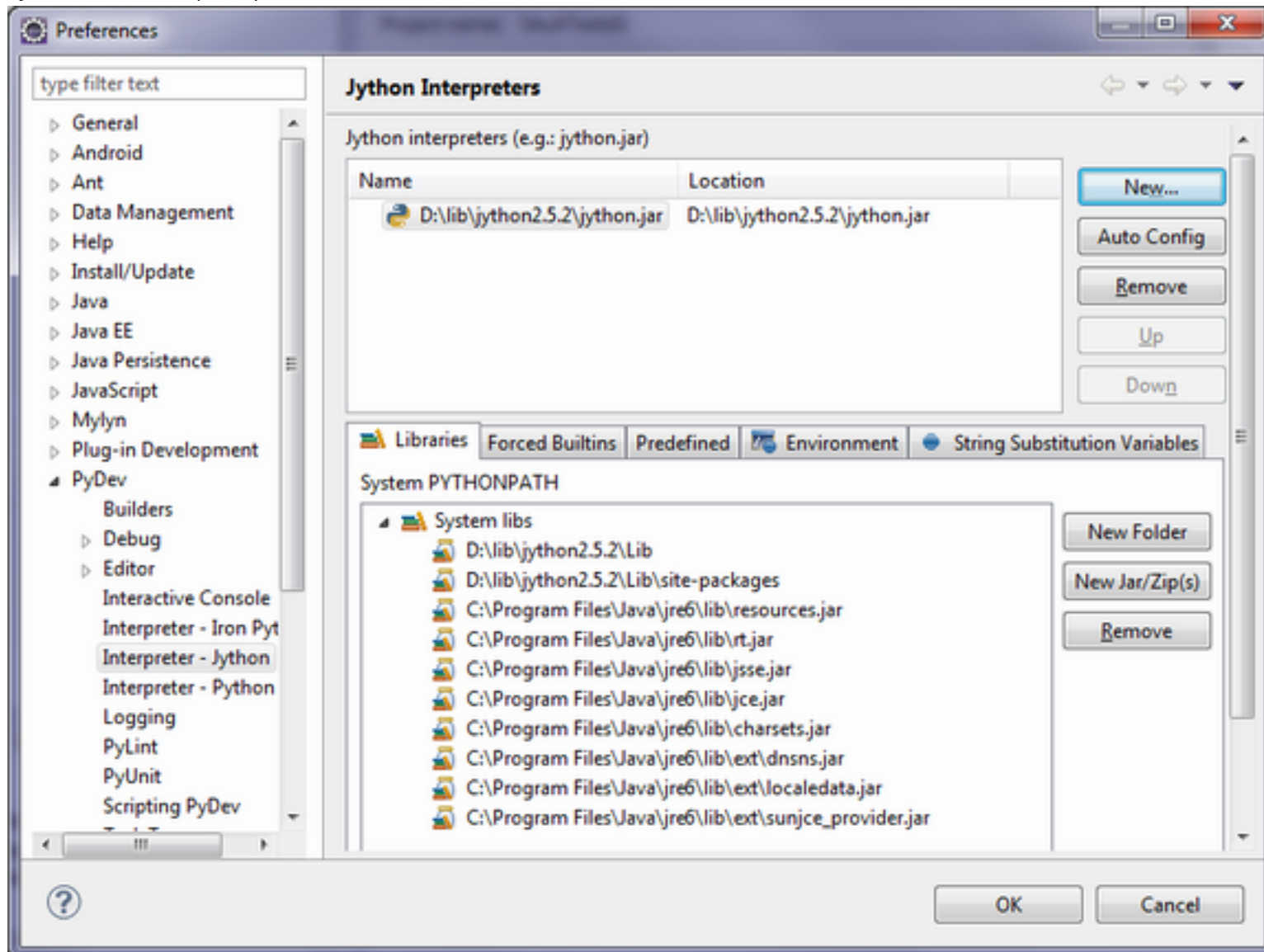


The image shows a 'PyDev Project' dialog box with the following fields and options:

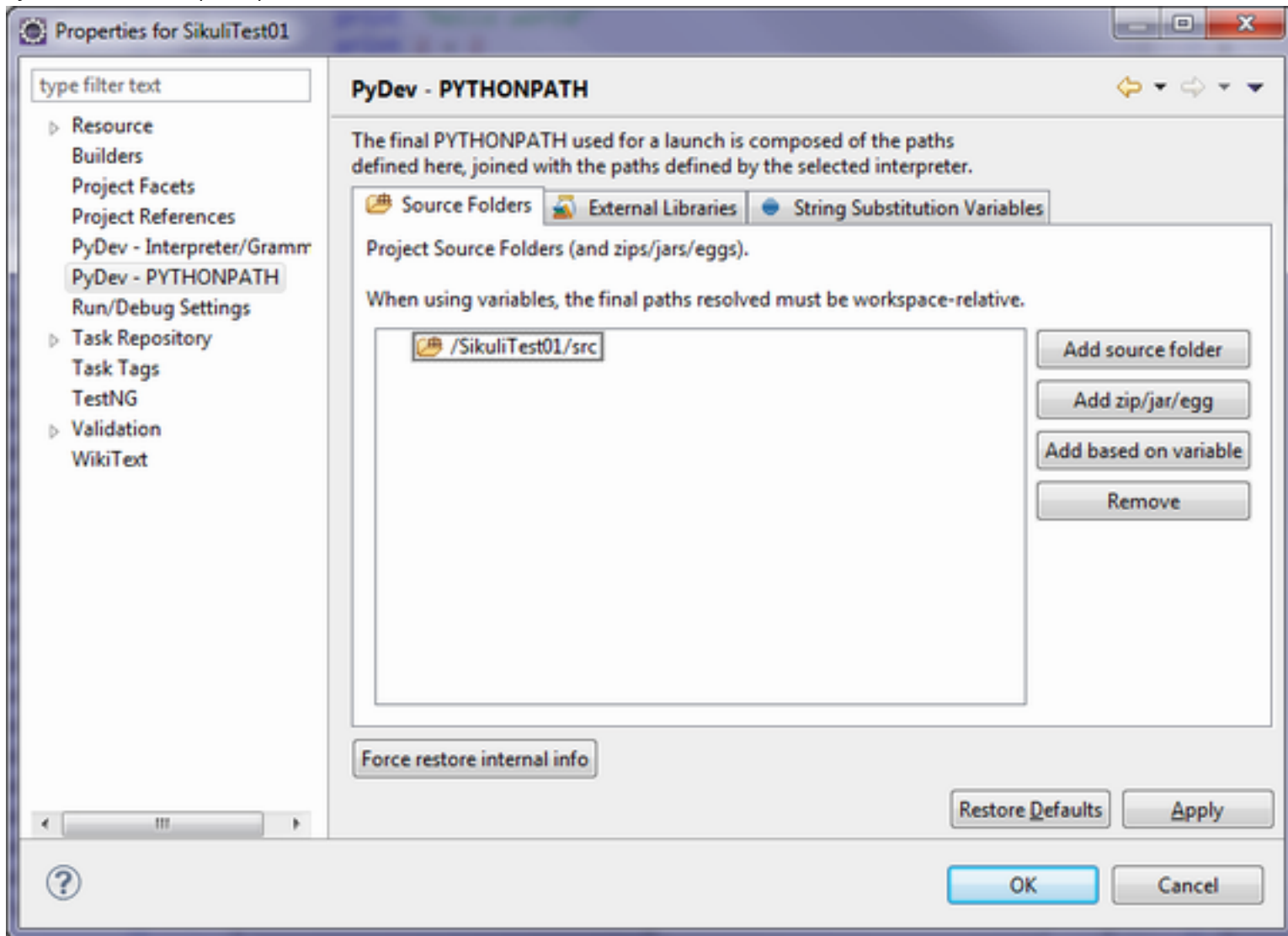
- Project name:** NewPythonProject
- Project contents:**
 - ☒ Use default
- Directory:** D:\Eclipse\Python\NewPythonProject (with a 'Browse' button)
- Project type:** Choose the project type
 - ☐ Python
 - ☒ Jython
 - ☐ Iron Python
- Grammar Version:** 2.7
- Interpreter:** Default
- [Click here to configure an interpreter not listed.](#)
- ☐ Add project directory to the PYTHONPATH?
- ☒ Create 'src' folder and add it to the PYTHONPATH?
- ☐ Don't configure PYTHONPATH (to be done manually later on)

At the bottom, there is a help icon (?), and buttons for '< Back', 'Next >', 'Finish', and 'Cancel'.

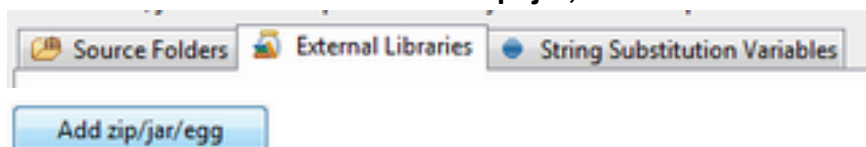
- Jython Interpreter(jython.jar)



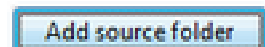
- Add sikuli-script.jar



- Go to External Libraries Tab (Add zip/jar/egg)
- Add sikuli-script.jar
- Extract 'Lib' from sikuli-script.jar, then add as 'source folder'



D:\lib\Sikuli-X-1.0rc3 (r905)-win32\Sikuli-IDE\sikuli-script.jar



D:\lib\Sikuli-X-1.0rc3 (r905)-win32\Sikuli-IDE\sikuli-script\Lib



PyDev Projects for Sikuli, need to use the following import:

```
import sikuli.Sikuli import *
```

Eclipse Config for Jython/Sikuli

Eclipse > Window > Preferences > PyDev > Interpreter - Jython

- **Interpreter - Jython** = Jython 2.5.2
- **PATH**=C:\Program Files (x86)\Java\jre6\bin;D:\lib\Sikuli32\Sikuli-IDE\libs;C:\Windows\SysWOW64\java.exe;
 - Without PATH, you will get: **java.lang.UnsatisfiedLinkError:**

Project Preferences

- **PyDev - PYTHONPATH**
 - **Source Folders** = Project
 - **External Libraries** =
 - sikuli-script.jar
 - sikuli-script\Lib (Pull from siklui-script.jar)

