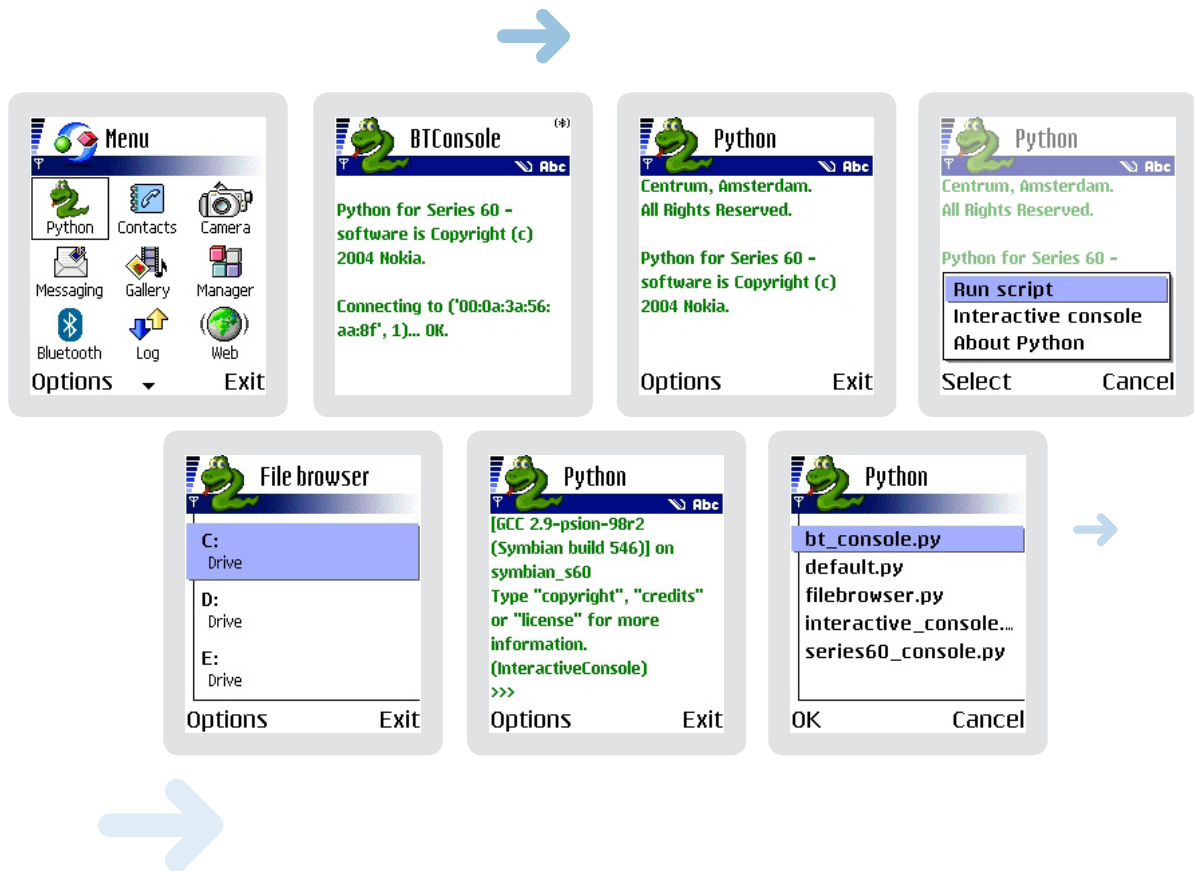


Python For S60



Python for S60 brings the power and productivity of the Python programming language to S60 devices. Python for S60 enables rapid application prototyping and development, and the ability to create stand-alone S60 applications.

Python for S60 allows developers to execute Python commands and run Python scripts and applications in S60 devices. Development starts with the execution of Python commands in an interactive console in a S60 device or in a S60 SDK emulator. Scripts can be written on a PC and tested in a S60 SDK emulator before being installed on a device as scripts or applications. Once installed on a device, scripts or applications are executed from the Python environment. Python for S60 is capable of running applications that use native resources of the S60 Platform and Symbian OS. Python for S60 can be used directly from native Symbian C++ applications to add scripting support.

Key Features

- Implementation of Python 2.2.2 for the S60 Platform.
- Networking support over General Packet Radio Service (GPRS) and Bluetooth wireless connectivity.
- On-device and remote Python Console support.
- APIs enabling access to native S60 Platform functions, including:
 - Camera and Screenshot.
 - Contacts and Calendar.
 - Sound recording and playback.
 - System information.
- Support for native GUI controls, graphics, images, and full-screen applications.
- Rich text display (fonts, colors, and styles).
- Compatibility with scalable UI.

System Requirements

- Compatible with S60 1st Edition and S60 2nd Edition devices.
- SDK plug-ins available for:
 - S60 1st Edition Feature Pack 1 SDK for Symbian OS, for C++.
 - S60 2nd Edition SDK for Symbian OS, for C++.
 - S60 2nd Edition Feature Pack 1 SDK for Symbian OS, for C++.
 - S60 2nd Edition Feature Pack 2 SDK for Symbian OS, for C++.
 - S60 2nd Edition Feature Pack 3 SDK for Symbian OS, for C++, beta.

Python For S60 — Features and Description

Full Python 2.2.2 Implementation

Python for S60 is based on, and is byte-code compatible with, the open source release of Python 2.2.2 available from python.org.

Python Installer

The Python installer allows a user to install a Python script or libraries on a device directly from the S60 Messaging application Inbox. Installed scripts and applications can then be launched from the main Python environment.

Python Script Shell

The Script Shell allows launching of Python applications and utilities.

Bluetooth Console

A full Python Console is available on-device. The console can also be accessed over a Bluetooth connection from a serial terminal emulator running on Microsoft Windows, Mac OS X, or Linux, for convenient programming from a desktop computer.

Application Build Tools

The Python for S60 SDK packages include the “py2sis” utility for building standalone Python application installation packages for S60 devices.

Networking Support

Support is provided for connecting S60 Python applications to the Web using GPRS and Bluetooth (OBEX and Radio Frequency Communications [RFCOMM]) sockets.

Graphics Canvas and Image Support

2D graphics support, built on native S60 graphics C++ APIs for drawing and image processing, is provided.

S60 Native GUI Object Support

Python for S60 includes a custom “appuiw” module for access to native S60 GUI objects, including text display, dialog boxes, and menus.

Device Compatibility

Python for S60 is compatible with S60 1st Edition and S60 2nd Edition devices, including the Nokia N-Gage™ mobile game deck, Nokia N-Gage QD™ game deck, Nokia 6600 imaging smartphone, Nokia 6620 imaging phone, Nokia 6630 imaging smartphone, Nokia 6680 imaging smartphone, Nokia 7610 imaging phone, and Nokia N90 phone.

Documentation and Example Code

Comprehensive PC-based documentation is provided in the tools package, including a “getting started” guide, a programming guide, and an API reference guide for Python for S60.

www.forum.nokia.com/tools



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