Python on Mobile Phones

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Topics

- * My Journey to Python on Mobile phones
- * Why Python?
- * Bootstrapping
- * Future

Motivation

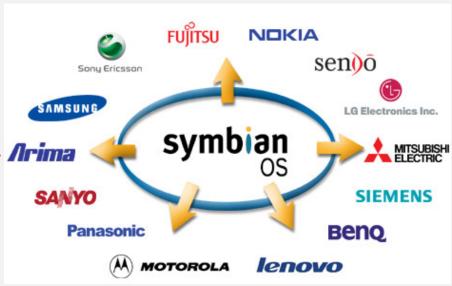
- * ShakerRacer
- * Mobiwiki
- * Scribble
- * Lottomat

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Ready

Python on Mobile Phones

- * Linux
 - * Maemo PyMaemo
 - * Fremantle SDK
 - * Diablo(OS2009) SDK
 - * OpenMoko
- * Andriod <u>SL4A</u>
 - * Makezine article
- * iPhone OS
 - * Cydia Packager
 - * Telesphoreo Project
- * Symbian PyS60
 - * Phone Supported



PyS60

- * Open Source python on Symbian OS
- * Initial version is based on Python 2.2.2
- * Advantages
 - * Rapid applications development
 - * Access to lot of phone features
- * Drawbacks
 - * Limited UI capabilities of core libraries

Bootstrapping

- * Download Files
 - * Python S60 SIS files
 - * Nokia
 - * Samsung
 - * SDK
 - * Platform SDK for Symbian S60
 - * Symbian i8910 Dev Pack
- * SIS Files
 - * PIPS for S60
 - * Python S60 Interpreter Python_2.0.0_symbian_signed
 - * Python Shell PythonScriptShell_2.0.0_unsigned_devcert_signed

Bootstrapping

- * Emulators
 - * Nokia
 - * Samsung
- * Symbian IDE Carbide
- * Interfacing to Phone
 - * PC Suite
 - * USB Console
 - * Wiki Console
 - * Bluetooth Console
- * Configuration used for Demo

Writing Applications

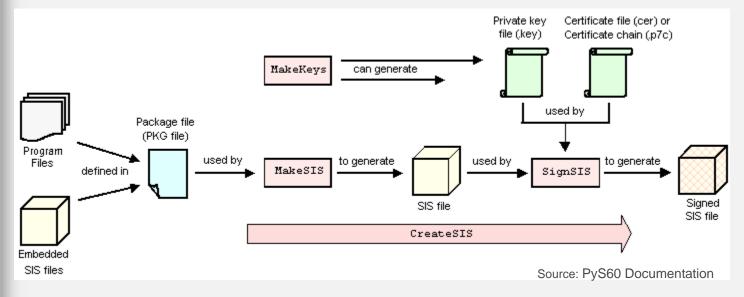
- * Hello World (First Application on PyS60)
- * Demo
 - * Standard Python Modules
 - * Phone Info(sysinfo)
 - * Input/Output/UI Components
 - * SMS(Receive/Send SMS)
 - * Telephone functionality
 - * Camera(Picture/videos)
 - * Network

PyS60 Libraries

appuifw	audio	calendar	camera
contacts	e32	e32db	globalui
graphics	inbox	keycapture	location
logs	messaging	positioning	sensor
socket	sysinfo	telephone	topwindow

Deploying Apps

- * Creating SIS Files
 - * Self Signed
 - Symbian Signed



Tools

- * PyS60 Application Packager
- * UnSIS
- * DevCertRequest
- * CreateSIS MakeSIS, MakeKeys, SignSIS
- * extSIS Create/Browse SIS contents

Future

- * What Next?
- * For Developers
 - * Flash Lite + Python
 - * Qt for S60
 - * Python Extensions
- * In Practice
 - * Project Phone sat
 - * Niime Project
 - * Industrial automation
 - * Motion controlled gaming
 - * Cellbots

Resources

- * Tutorials
 - * Python on Symbian
- * Blogs
 - * www.croozeus.com
 - * http://gargidas.blogspot.com/
 - http://www.sajisoft.net.ms/
- * Forums
 - * Nokia Forum
- * S60 Module Reference

Thanks

Journey Continues...