Developing Flash Apps for Nokia N95
Using Flyer

A Quickstart Guide by Steve Marmon

The **Flyer** framework enables you to develop Flash applications that take advantage of the features of the N95, including the camera, GPS, and microphone.
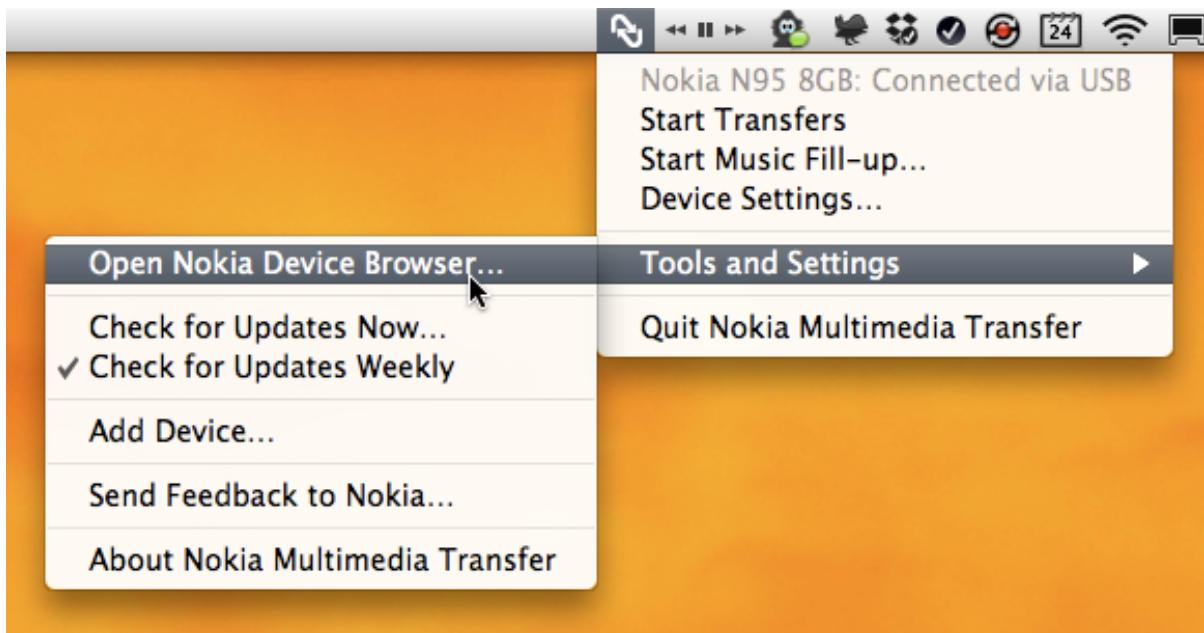
To Develop a Flyer Application:

1. Download the Flyer example code from http://hci.stanford.edu/cs147/ flyer_1_1_sample_code.zip.
2. Copy the "com" directory from the sample code into your Flash project directory (where your .fla file is).
3. Import the Flyer framework into your ActionScript code ("import com.flyer.Flyer;").
4. Copy the examples given in the sample code for whatever phone function you are trying to use.
5. When you are done, choose "File" > "Publish". This will produce a .swf file (in the same folder as your .fla file) that you can copy to your phone.
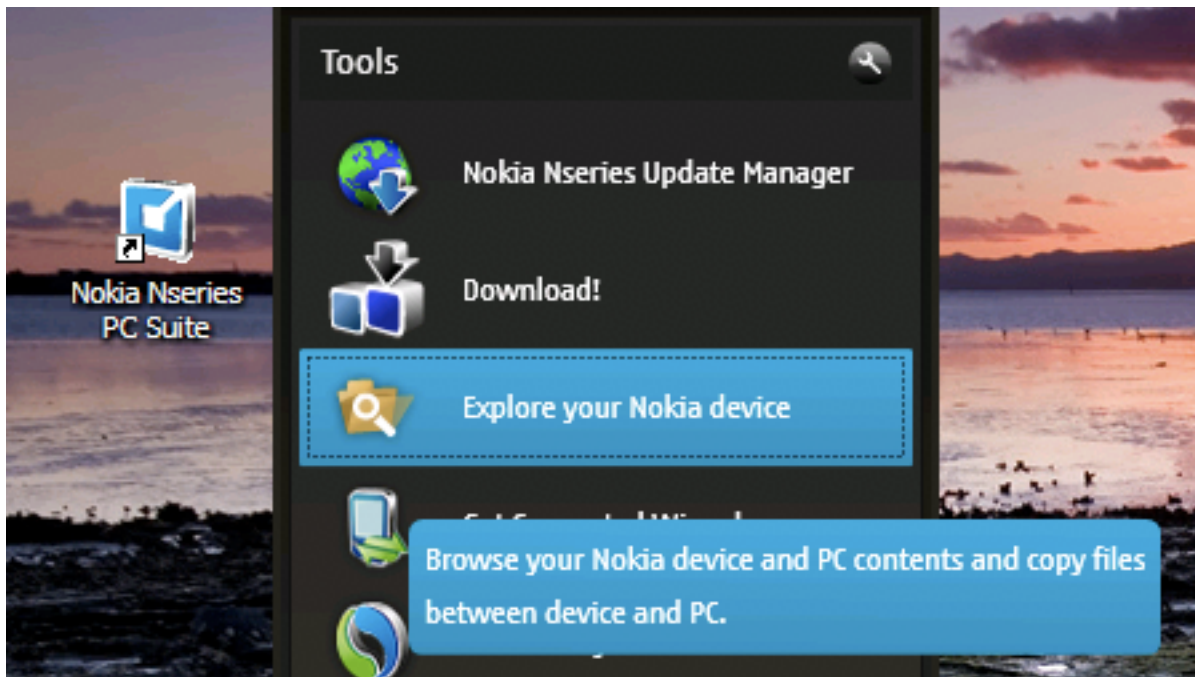
To Install the App on Your Phone:

1. Download and install Nokia Media Transfer 1.3 for Mac OS X, or Nokia Nseries PC Suite 2.0 for Windows (both available from Nokia.com).
2. Plug your phone into your computer using the included USB cable.
3. Choose "PC Suite" from the menu that appears on the phone.

4. On the Mac, click the Nokia menuling, then choose "Tools and Settings" > "Open Nokia
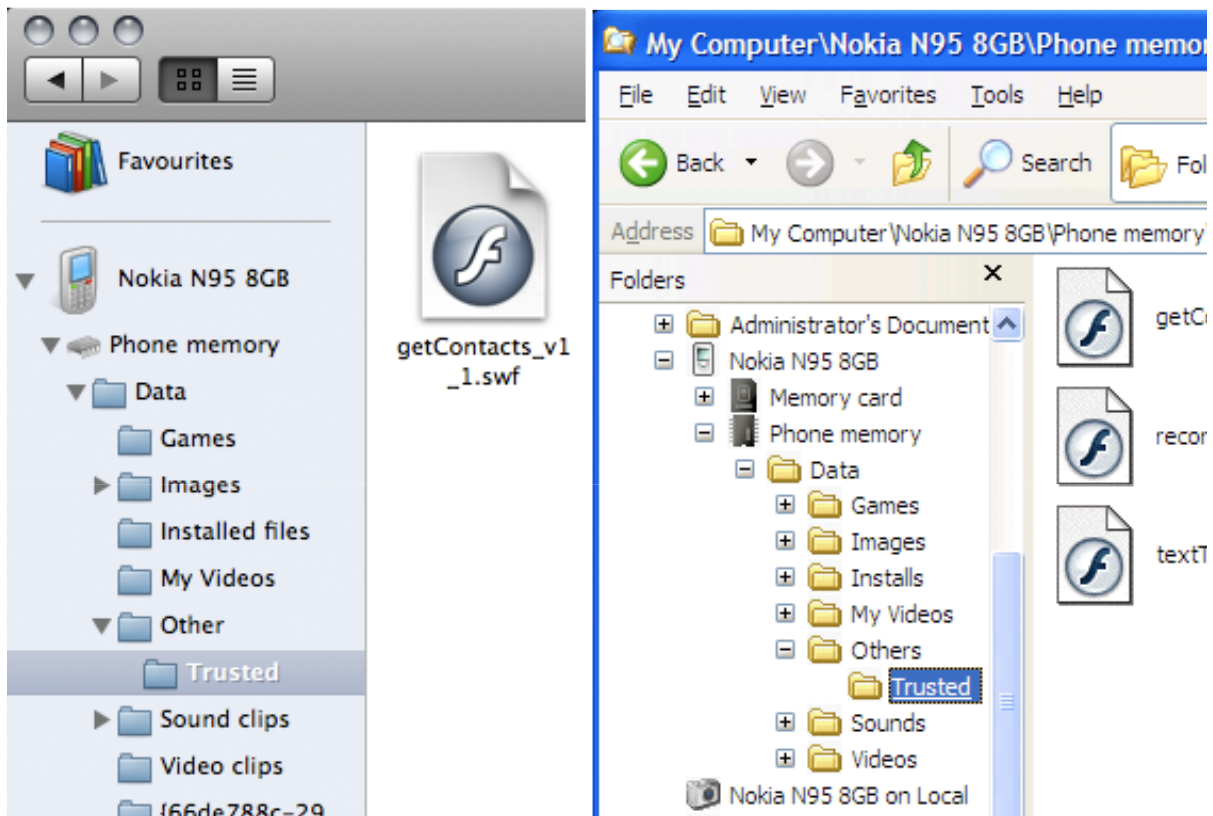

Device Browser..." On Windows, double-click Nokia Nseries PC Suite, then click "Explore your Nokia device".

5. On the Mac, click the disclosure triangle next to the "Nokia N95" icon, then click "Data" > "Other" > "Trusted". On Windows, click the "+" next to "Phone memory", then click "Data" > "Others" > "Trusted".[1]

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[1] Astute readers will notice that the Mac-visible file structure is "Data/Other/Trusted" while the Windows-visible structure is "Data/Other**s**/Trusted". Do not attempt to fathom why this is. It will only lead to madness.

6. Drag your .swf files into the Trusted folder.
7. Unplug the device.

To Run the App on Your Phone:

1. Press the *Applications* button on your phone (it is the one to the left of the arrow keys) .
2. Open the "Python" application
3. Press "Options" > "Run script".
4. Select "Flyer_1_1.py" from the list. Some text will appear, including "Flyer 1.1 - Waiting for FL connection".
5. Press the Application button (**DO NOT** press "Options" or "Exit" in Python). This will keep the Python script running in the background.
6. Open the "Flash" application (on the 8GB model, it will be called "Flash Player").
7. Select "Trusted", then select your application.
8. When prompted, choose "Allow" to create a network connection. Use the default access point, then choose "Yes" to create a connection in offline mode, and select an access point as appropriate.
9. Use your Flyer-powered app!