



openmoko

Openmoko Linux 2008

開放手機新體驗

輔仁大學 資訊工程系

2008-10-22, 14:00 ~ 15:30

Jollen Chen <jollen@openmoko.com>

Openmoko Inc. www.openmoko.com

Openmoko 開放源碼行動電話領導商



Openmoko 專案

- 授權：以 LGPL/GPL v2 授權釋出
 - 平臺：發展一個基於 Linux 的開放手機平臺
 - 社群：Openmoko 開發者社群、於西方具有相當高的知名度
 - 教育研究：開放源始碼適合教育與研究

⑥	★	✉	Subject	● Sender	⌚	Date
			Re: Congratulations Harald!	Kevin Dean		2008/3/22 12:15 AM
			Re: Congratulations Harald!	Joe Pfeiffer		2008/3/21 11:57 PM
			Re: Price of the Freerunner published?	Lally Singh		2008/3/21 11:32 PM
			Re: Price of the Freerunner published?	Stroller		2008/3/21 11:12 PM
		✉	Re: Price of the Freerunner published?	Gabriel Ambuehl		2008/3/21 9:35 PM
			Re: Congratulations Harald!	Torfinn Ingolfsen		2008/3/21 8:50 PM
			Re: Price of the Freerunner published?	Peter Trapp		2008/3/21 8:49 PM
		✉	Re: Congratulations Harald!	Sébastien Lorquet		2008/3/21 8:22 PM
			Re: Future hardware options	Gabriel Ambuehl		2008/3/21 8:20 PM
			Re: Neo Freerunner manufacturing status	geniere90@interfree.it		2008/3/21 7:01 PM
			Re: Price of the Freerunner published?	Pietro "m0nt0" Montorfano		2008/3/21 6:52 PM
			Re: Neo Freerunner manufacturing status	geniere90@interfree.it		2008/3/21 6:13 PM
			Re: Price of the Freerunner published?	Sean Moss-Pultz		2008/3/21 6:09 PM
			Re: Price of the Freerunner published?	Andy Powell		2008/3/21 6:01 PM
			Re: Price of the Freerunner published?	ramsesoriginal		2008/3/21 5:17 PM
			Congratulations Harald!	Sean Moss-Pultz		2008/3/21 3:16 PM
		✉	Re: Price of the Freerunner published?	Lowell Higley		2008/3/21 2:58 PM
			Re: freerunner - get it over trisoft	Carlo E. Prelz		2008/3/21 2:53 PM
			Re: freerunner - get it over trisoft	Stroller		2008/3/21 1:04 PM
			Re: freerunner - get it over trisoft	SELOLIGI		2008/3/21 1:04 PM
			Re: freerunner - get it over trisoft	Carlo E. Prelz		2008/3/21 5:23 PM
			Re: freerunner - get it over trisoft	LOWELL HIGLEY		2008/3/21 5:28 PM





Android - An Open Handset Alliance Project

The Open Handset Alliance, a group of more than 30 technology and mobile companies, is developing Android: the first complete, open, and free mobile platform. To help developers get started developing new applications, we're offering an early look at the [Android Software Development Kit](#).



Open

Android allows you to access core mobile device functionality through standard API calls.



All applications are equal

Android does not differentiate between the phone's basic and third-party applications -- even the dialer or home screen can be replaced.



Breaking down boundaries

Combine information from the web with data on the phone -- such as contacts or geographic location -- to create new user experiences.



Fast & easy development

The SDK contains what you need to build and run Android applications, including a true device emulator and advanced debugging tools.

Android Blog

[Android Blog](#)

[Android SDK m5-rc14 now available](#)
Feb 13, 2008 - Posted by Jason Chen, Developer Advocate

On behalf of the entire Android team, I'm happy to let you know that an updated version of the Android SDK ...



Community

User Group

[Default value of integer in sqlite is 0?](#)
Feb 17, 2008 - Posted by maomao

Default value of integer in sqlite is 0? why not null? sample cod: package com.google.dbtest; import ...

Getting Started

1. [Learn about Android](#)
2. [Download the SDK](#)
3. [Join the community](#). Participate in our discussion group through email or the web.



The Android Developer Challenge will award \$10 million to developers who build great apps for Android.
[Learn more!](#)

Featured Videos



圖片來源: <http://www.apple.com/iphone/features/index.html#phone>



openmoko obeuwoko

開放平臺：技術開放、可自由修改

互動：並非裝置本身，而是與使用者的互動。

社群：開發者社群、使用者社群

symbian

Symbian OS
the open mobile
operating system

Acceler



Text

2008.06.24: symbian 也開放了

新手機時代

- 2007 年 iPhone 與 Google Android 帶起「新的手機使用概念」以及「開放式的手機平臺」的革命。
- 提供 UI 與服務開發的環境。
- Android 與 iPhone 都開始提供 SDK。Openmoko 也不缺席。
- Symbian 也加入了。

Neo FreeRunner

Neo FreeRunner 正式在 2008 CES 發佈

延續第一代產品「Neo 1973」的新版本

2008.07.04 量產上市

Neo FreeRunner 是開源手機概念的另外一個實作：手機不預載任何的應用軟體，出廠時只預載一個安裝器（installer），當使用者拿到手機後，可以透過安裝器的選單安裝「自己想要、也會用到」的應用程式。





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Neo FreeRunner w/ Om 2007.2

- Samsung S3C2442 with 500MHz
- 記憶體升級為 128MB
- NAND flash 升級為 256MB
- 加入 802.11b/g WiFi 硬體
- 二個 3D accelerometer
- SMedia Glam3662 2D/3D 行動繪圖晶片
- 支援 850MHz 頻帶
- 還有 Motion Sensor



每日更新 rootfs 與 kernel

- Openmoko 網站提供每天最新的 root filesystem & kernel



Index of /daily

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
Parent Directory		-	
 dfu-util	24-Sep-2008 01:52	579K	
 gta01bv4-u-boot.bin	24-Sep-2008 01:52	214K	
 gta02v5 and up-u-boot.bin	24-Sep-2008 01:52	211K	
 testing-om-gta01-20080924.rootfs.jffs2	24-Sep-2008 01:52	34M	
 testing-om-gta01-20080924.rootfs.tar.gz	24-Sep-2008 01:52	28M	
 testing-om-gta01-20080924.uImage.bin	24-Sep-2008 01:52	1.7M	

qemu-neo1973

QEMU 是一個可以模擬 x86、x86_64、ARM、SPARC、SPARC64、PowerPC、PowerPC64、MIPS、m68k 與 SH-4 處理器的 open source 軟體。簡單說，QEMU 就是一套虛擬機器 (virtual machine) 的軟體。

qemu-neo1973 是由 Openmoko 基於 qemu 所發展的手機模擬器，支援 GSM modem 的模擬功能。



Open Source 是一種軟
體發展模式 (Software
Design Methodology)

Openmoko Openness

Open Source

Open Hardware

Open Design

Open Learning

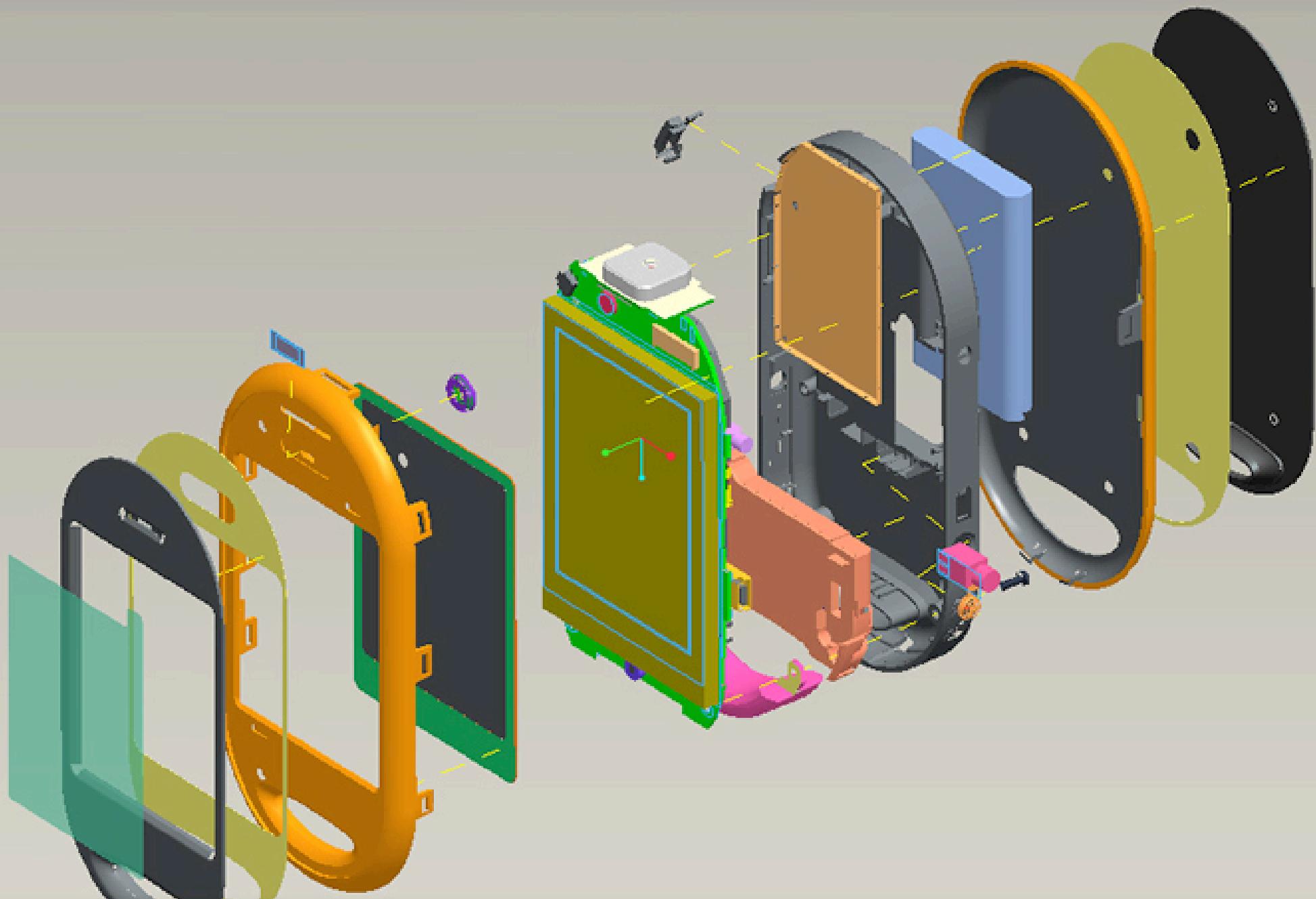


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Hardware Spec. Open.

Component	Name	Openness
CPU	Samsung S3C2442	Docs available after free registration
NAND	Samsung	Standard NAND command-set
GSM modem	TI Calypso	Speaks standard protocols
Wifi	Atheros AR6k	GPL drivers available
Bluetooth	Delta DFBM-CS320 Class2	Documentation available
GPS	U-blox ANTARIS 4 ATR0635	Serial protocol documentation available
Graphic accelerator	Smedia 3362	Documentation available under NDA, unlike previously announced
LCD	Toshiba TFT LCD chipset	GPL driver available
Sound codec	Wolfson Codec	Datasheet available
Sound amplifier	National Semiconductor LM4857	Datasheet available
Power management	Philips PCF50606	Documentation available
Battery	Proprietary	Schematic available

機構設計. Open.



電路圖. Open.

openmoko.com | Download



<http://www.openmoko.com/download-schematics.html>

PRODUCTS

DOWNLOAD / SCHEMATICS

OPPORTUNITIES

CONTRIBUTE

STORE



Om 2008

Qtopen

CAD Files

Schematics

Neo Schematics

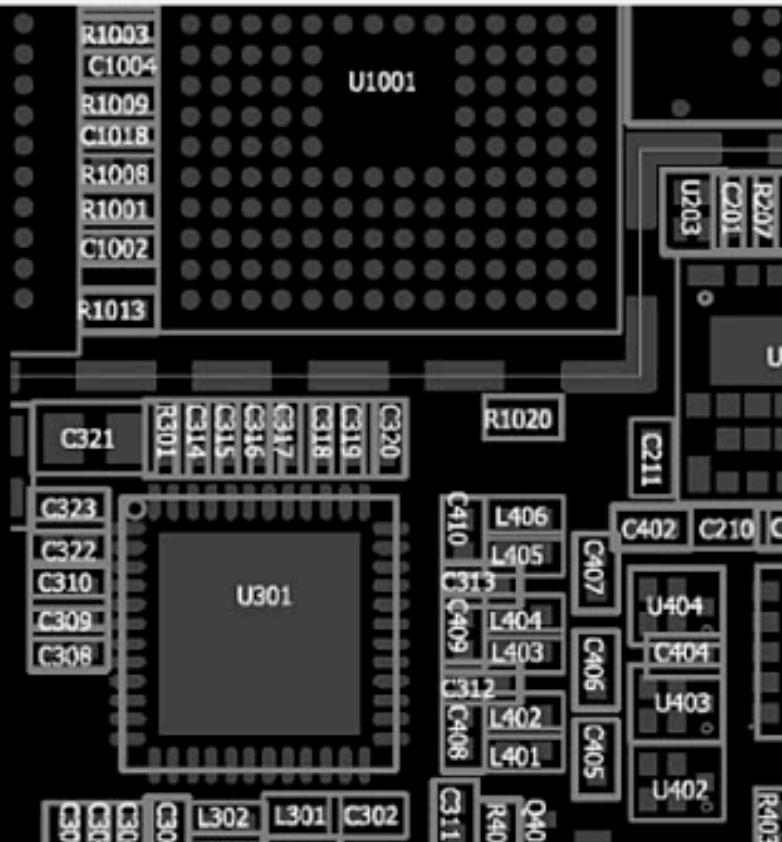
Developers who want understand the electrical design, assist in low level debugging and potentially modify their Neo's can now download the schematics from Openmoko.

NEO FREERUNNER

Download complete schematics and component placement diagrams for the Neo FreeRunner.

NEO 1973

Download complete schematics and component placement diagrams for the Neo 1973.





Openmoko Education

Openmoko 能做什麼？

- Neo FreeRunner讓學生能透過Openmoko提供的開放環境，儘情發揮創意，並開發自己的行動通訊應用程式。
- 使用Neo FreeRunner做為行動通訊課程或嵌入式系統的實驗教具。
- 歡迎加入清華大學的Openmoko OpenLab，分享教材，與Openmoko一起站上世界舞臺。
- Neo FreeRunner有完整的SDK與source code。在最先進的Mobile Application Framework上開發行動通訊程式，並進行研究。



行動通訊 開放學習. Open.



LinuxDevices.com

[Home](#) | [News](#) | [Articles](#) | [Polls](#) | [Forum](#)

Keywords:

Match: All keywords

Open source phone goes to college

Sep. 15, 2008



Openmoko has launched an educational program at National Tsing Hua University of Taiwan to teach students about mobile device design using its open-source mobile Linux phone, the Neo FreeRunner (pictured). The "OpenLab" is the first step in a worldwide educational outreach program, says Openmoko.

OpenLab will encourage students to develop their own projects based on Openmoko software and hardware, says Openmoko. Working with National Tsing Hua University, Openmoko has developed a curriculum for OpenLab that is being released under a creative commons share-alike license.

Openlab's first class based on the Neo FreeRunner was launched this summer by the

Press Coverage: Tsing Hua's Openmoko OpenLab

- › 2008-09-23, <校園風采錄> 清華大學資工系將與Openmoko合作 ↗ (Tsing Hua University 國立清華大學)
- › 2008-09-23, 清大將設開放手機實驗室 提供教學研究 ↗ (Tsing Hua University 國立清華大學)
- › 2008-09-15, Open source phone goes to college ↗ (LinuxDevices.com)
- › 2008-09-17, 清华大学引进了开放手机平台Openmoko课程 ↗ (自由&开源软件 FOSS)
- › 2008-09-22, 清大將設開放手機實驗室 提供教學研究 ↗ (Yahoo!奇摩新聞)
- › 2008-09-22, 清大將設開放手機實驗室 提供教學研究 ↗ (中央社)
- › 2008-09-22, 清大將設開放手機實驗室 提供教學研究 ↗ (Taiwan News Online)
- › 2008-09-22, 清大引用Openmoko資源開放式手機研發 ↗ (國立教育廣播電台 National Education Radio)
- › 2008-09-22, 清大引用Openmoko資源開放式手機研發 ↗ (Yahoo!奇摩新聞)
- › 2008-09-22, 清大将设开放手机实验室 提供教学研究 ↗ (大紀元 EpochTimes.com)
- › 2008-09-22, 清大將設開放手機實驗室 提供教學研究 ↗ (中時電子報 | 科技晚報 ChinaTimes.com)
- › 2008-09-22, オープンソース携帯電話OpenMokoが大学の授業の教材に ↗
- › 2008-09-22, 清大將設開放手機實驗室 提供教學研究 ↗ (中央日報網路版)
- › 2008-09-22, Email革命先鋒！歐米家族日記 ↗
- › 2008-09-22, 清大將設開放手機實驗室 提供教學研究 ↗ (我的E政府 www.gov.tw)
- › 2008-09-22, 清大將設開放手機實驗室 提供教學研究 ↗ (PChome 新聞)
- › 2008-09-22, 清大将设开放手机实验室 提供教学研究 ↗ (新唐人电视)
- › 2008-09-22, 清大將設開放手機實驗室 提供教學研究 ↗ (Sina 新浪新聞)
- › 2008-09-22, 清大將設開放手機實驗室 提供教學研究 ↗ (群益金融網)
- › 2008-09-22, 清大將以自由軟體手機做為教學及研究平台 ↗ (Techlife 科技生活)
- › 2008-09-22, 開放原始碼新聞網 ↗
- › 2008-09-22, 台灣立報 ↗
- › 2008-09-22, 國立交通大學電信工程學系 ↗

Openmoko-TW.net

論壇 - Openmoko 正體中文站

搜尋...

搜尋

進階搜尋

討論區首頁

vA^

問答集 註冊 登入

現在的時間是 2008年 9月 25日, 12:07

檢視沒有回覆的主題 • 檢視熱門的主題

OPENMOKO & NEO FREERUNNER

主題 文章 最後發表

 Openmoko & Neo FreeRunner 開發者 三軸加速感測器、藍芽、GPS、WiFi、觸控螢幕應用等程式開發技術討論。目前官方的 distribution 有 Om2007.2、Om2008.8、ASU、FSO，其它發展工具 opkg、openmoko-toolchain、dfu-util、qemu-neo1973、openembedded。底層部份有 gsm、kernel、driver、u-boot、xserver 與硬體等。	7	14	由 zzn 發表於 2008年 9月 19日, 23:33
 Openmoko & Neo FreeRunner 好好玩 開發心得、使用心得、Neo FreeRunner 各種應用程式、有趣應用、分享。	0	0	沒有文章
 Openmoko & Neo FreeRunner 手機課程 課程討論、教材分享。	2	3	由 jollen 發表於 2008年 9月 16日, 23:03
 Neo FreeRunner 新人報到區 有 FreeRunner 的同好可以到此區報到	2	3	由 htseng 發表於 2008年 9月 13日, 12:09

其它討論群組

主題 文章 最後發表

 一般討論區 閒話家常、關於 Openmoko 各種話題。	0	0	沒有文章
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網站事務

主題 文章 最後發表

 活動資訊 研討會、社群活動、教育訓練、課程資訊。	0	0	沒有文章
 服務 資料庫、行動裝置、終端顯示、儲存装置。	0	0	服務

Openmoko Education

連絡你的指導老師

清華大學 OpenLab 邀請老師加入教材共同開發團隊

Openmoko 讓你的成果站上世界舞台



The screenshot shows the Google Code interface for the 'lots-game' project. The title 'lots-game' is displayed above a brief description: 'This is a lots game which can test your fortune any time and any where'. Below the title are several navigation links: Project Home, Downloads, Wiki, Issues, Source (which is highlighted), Checkout, Browse, and Changes. A search bar for the trunk is present, along with 'Search Projects' and 'Search the Web' buttons.

Source Path: svn/

[r1](#) [r2](#)

Directories	Filename	Size	Rev	Date	Author
svn	AUTHORS	41 bytes	r2	Aug 22, 2008	willytiger5
branches	COPYING	17.6 KB	r2	Aug 22, 2008	willytiger5
tags	ChangeLog	70 bytes	r2	Aug 22, 2008	willytiger5
trunk	INSTALL	9.2 KB	r2	Aug 22, 2008	willytiger5
	Makefile.am	433 bytes	r2	Aug 22, 2008	willytiger5

Om2008.8 於 2008.08.08 正式釋出

Dear Community,

We are proud to announce the release of Om 2008.8 for public reviewing.
It represents our current state of development over the last 6 months.
We came a long way before achieving this milestone.
Here is what you can expect:

- A stable and working phone stack realized by using Qtopia.
- A new and flexible window manager [Illume] that broadens our support for the different graphic libraries, including GTK+ and more.
- The whole system software has been reworked which leads to a very fast and reliable suspend & resume, LED control and power management.
- A graphical frontend [Installer] for package management as installing, removing or updating applications via repositories.
- Also included is an application which combines GPS and SMS [Locations] for easy sharing of locations among friends.

For detailed information about Om 2008.8 (including instructions, references and currently known issues) check out our wiki at:
http://wiki.openmoko.org/wiki/Om_2008.8

Please consider this a next step towards an open end user ready mobile platform. We are not there yet but we will continue working towards that direction. We invite you to install our latest release and give feedback:

<http://downloads.openmoko.org/releases/Om2008.8/Om2008.8.rootfs.jffs2>
<http://downloads.openmoko.org/releases/Om2008.8/Om2008.8.uImage.bin>

Soon after our release we will publish frequent snapshots of our builds to give you the possibility to follow our development and latest fixes. You can join forces with our QA team by submitting bug reports and/or patches to make the platform as robust as possible.

We are excited about this release and look forward to moving together towards upcoming milestones.

Best Regards,

Openmoko Team

Om2008.8

- Installer
- Illume
- Edje
- Theme
- Locations
- Qtopia Keyboard
- Community Repository



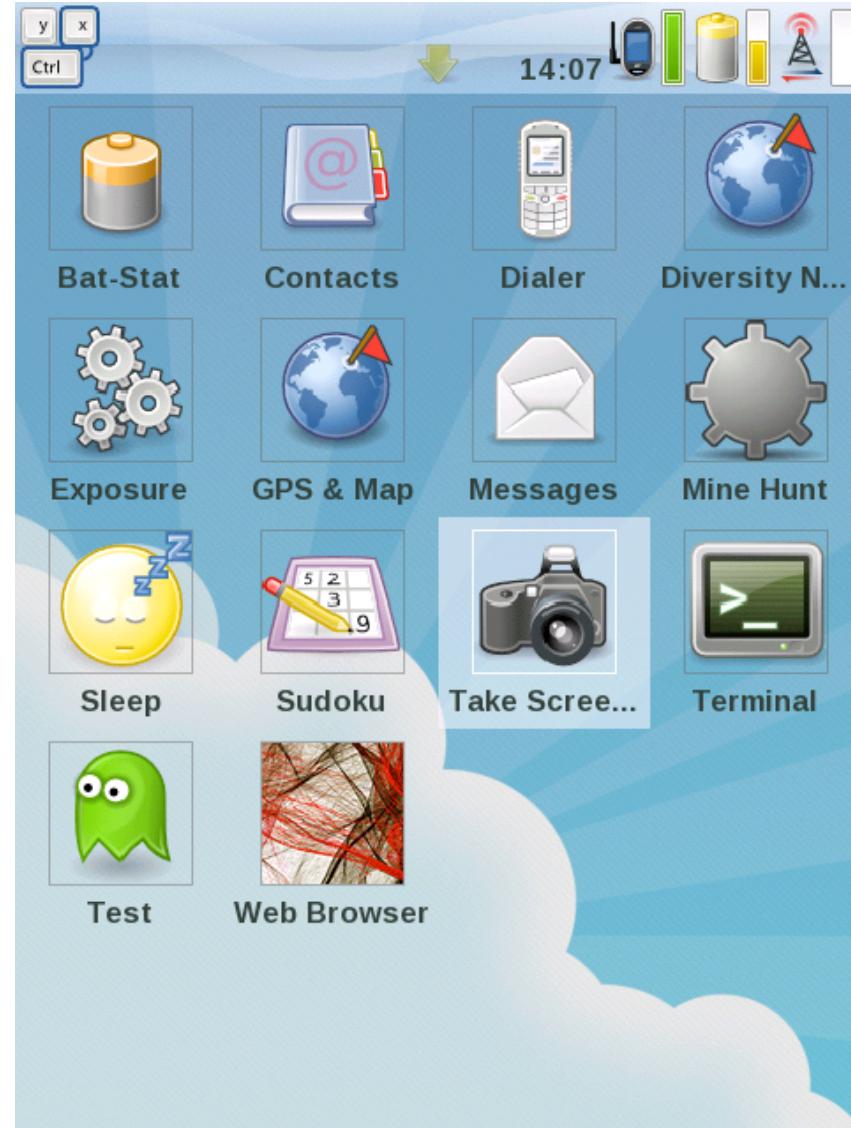
Om2008.8 介面（支援 Qtopia/EFL/GTK+）

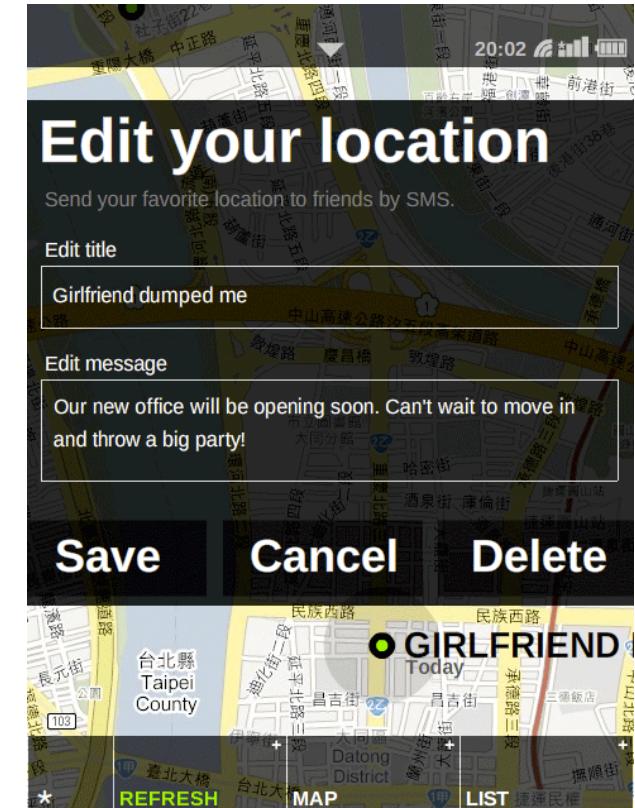
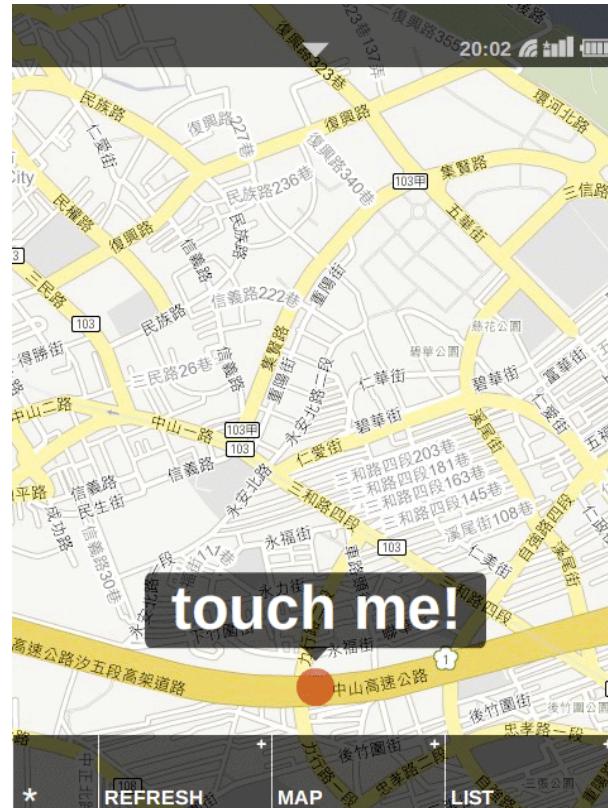
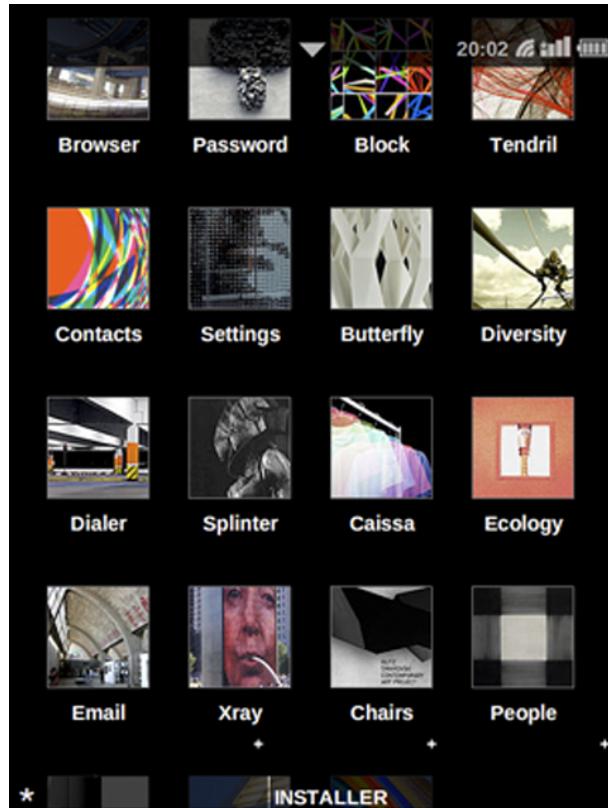
Programming FreeRunner



Edje

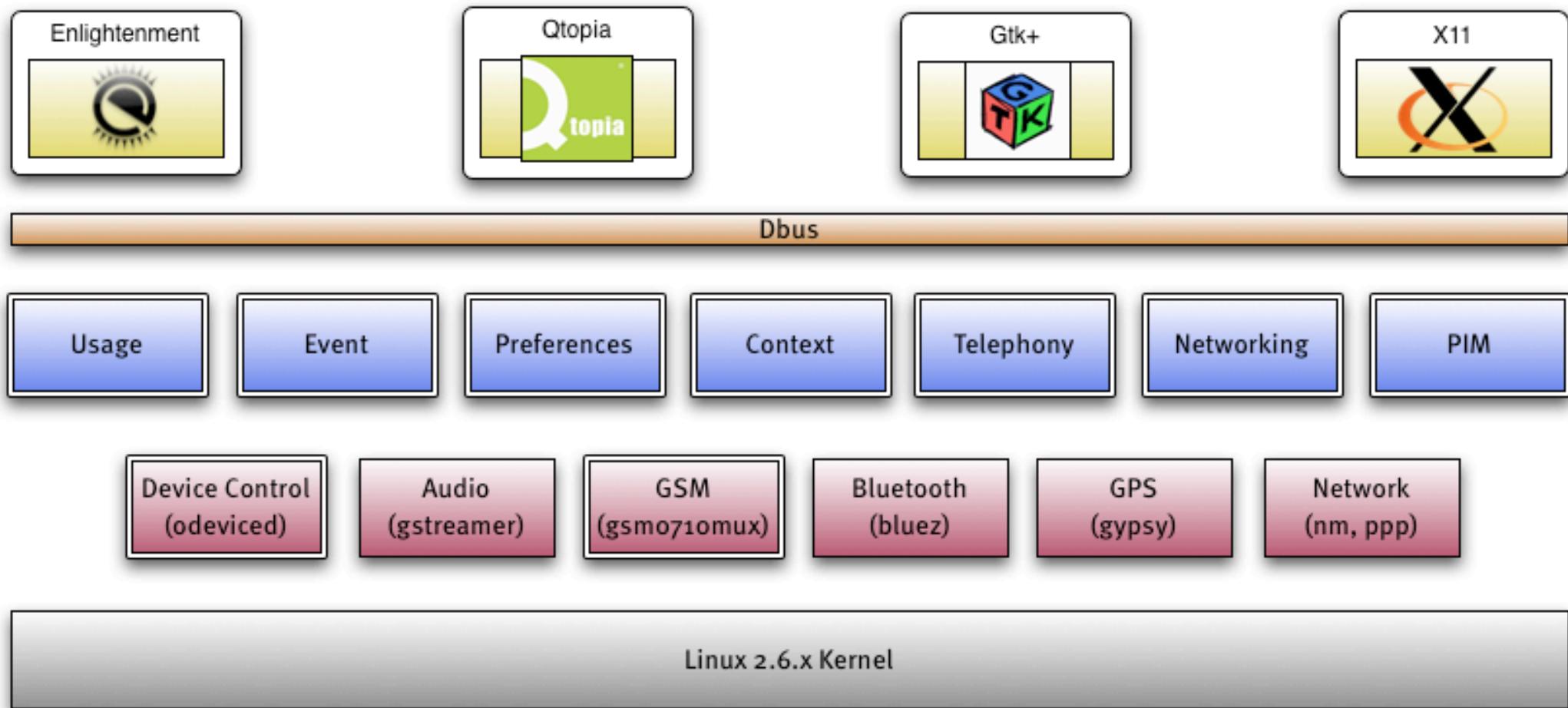
- 客製化 Neo FreeRunner 佈景主題的工具
- 搭配 Illume 視窗管理員





全新的 ASU 體驗

Openmoko 2008 Software Architecture



High-level framework service



Newly created or modified component

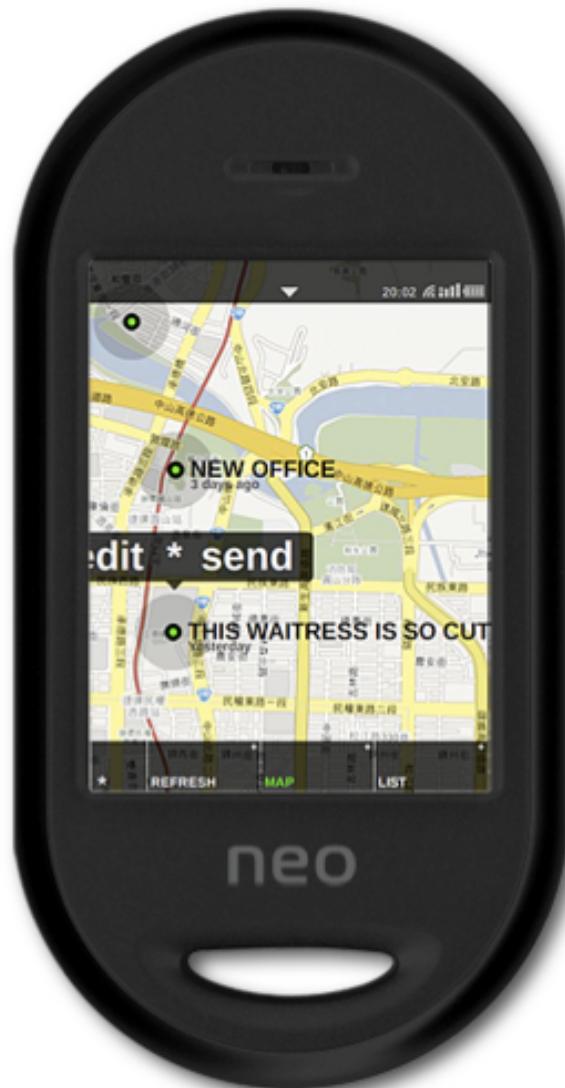


Low-level framework service



Existing component

:M:



Openmoko/EFL



Openmoko/GTK+



Openmoko/Qt



The GTK+ Project



Openmoko的Software Stack將GTK+、EFL與Qtopia整合在一起，無論使用哪一種手機UI技術，都能在Neo FreeRunner上表現。

TROLLTECH®



git tree: Om 2008

git.openmoko.org Git

http://git.openmoko.org/ Google

projects /

Project	Description	Owner	Last Change
bitbake.git	Openmoko's patched copy of ...		2 months ago summary shortlog
kernel.git	development kernel tree		31 hours ago summary shortlog
om-locations.git	Locations		6 days ago summary shortlog
openmoko.git	Openmoko's OpenEmbedded reposi ...		13 hours ago summary shortlog
processing.git	Processing 0135 with OM modifi ...		4 months ago summary shortlog
processor.git	The native library of processi ...		3 days ago summary shortlog
qi.git	bootloader for breathing Life ...		10 days ago summary shortlog
qtopia.git	Holger's qtopia repo		13 hours ago summary shortlog
system-test-suite.git	Production testing software ...		2 months ago summary shortlog
u-boot.git	development tree for U-Boot		7 weeks ago summary shortlog
xglamo.git	X driver for Glamo in GTA02		2 months ago summary shortlog
zecke/openocd.git	Unnamed repository; edit this ...		4 months ago summary shortlog
zecke/taskjuggler.git	Unnamed repository; edit this ...		2 weeks ago summary shortlog



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向社群展現成果

Openmoko Wiki 社群成果集散地

<http://wiki.openmoko.org>

Main Page – Openmoko

Log in / create account

WIKI DOCS PLANET PROJECTS LISTS

page discussion view source history

Main Page

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Openmoko™ - Open. Mobile. Free.

Openmoko™ is a project dedicated to delivering mobile phones with an open source software stack. Openmoko is currently selling the Neo FreeRunner phone to advanced users and will start selling it to the general public as soon as the software is more developed.

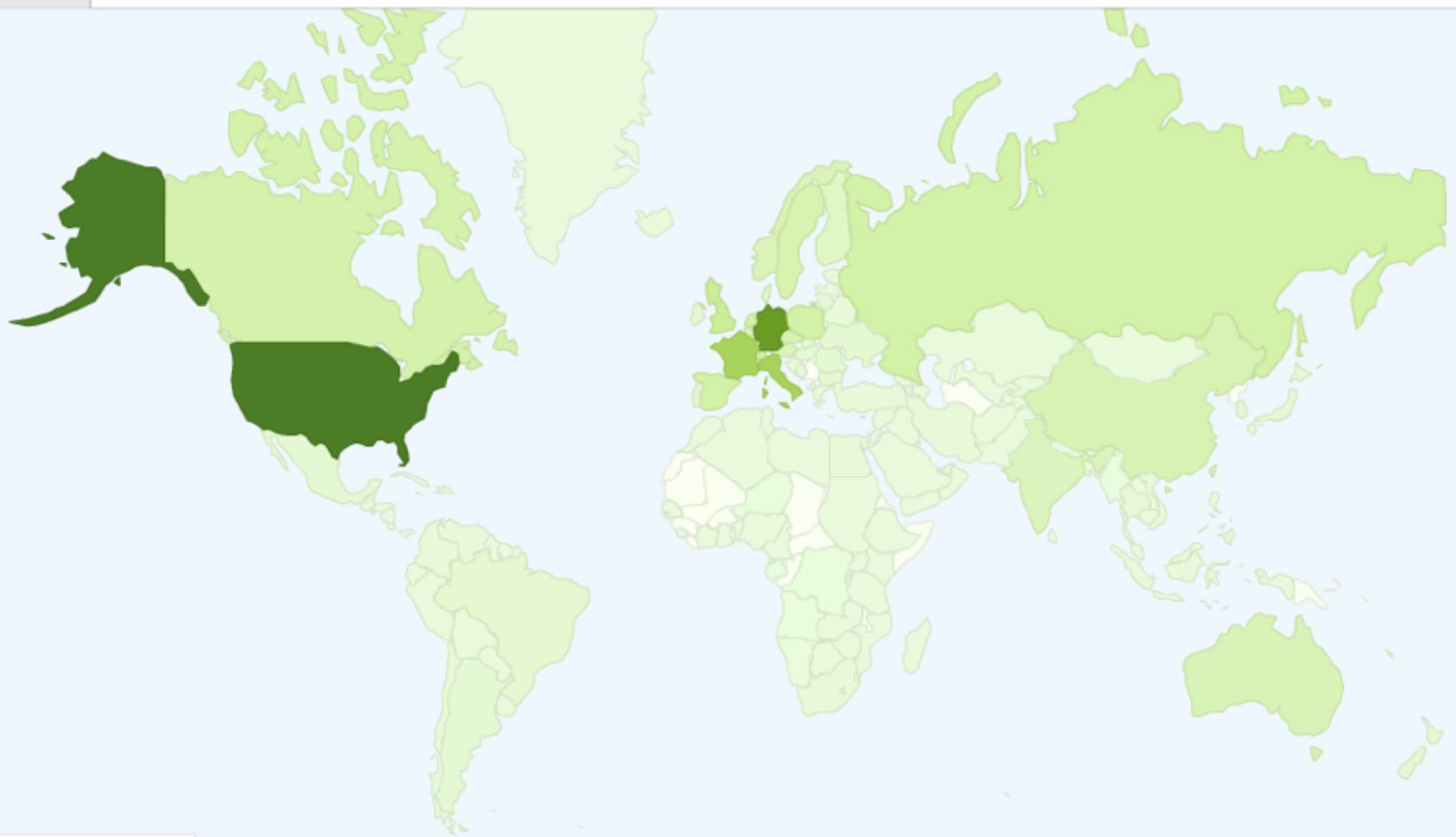
The Openmoko stack, which includes a full X server, allows users and developers to transform mobile hardware platforms into unique products. Our license gives developers and users freedom to cosmetically customize their device or radically remix it; change the wallpaper or rebuild the entire house! It grants them the freedom, for example, to transform a phone into a medical device or point of sale device or the freedom to simply install their own favourite software. Beyond freeing the software on our devices we have also released our CAD files under Creative Commons. And at LinuxWorld 2008, we announced the release of the [schematics for our products](#).

 Neo FreeRunners

News and events	New to Openmoko?
<ul style="list-style-type: none">19/10: Community update15/10: Openmoko Weekly Engineering News 41.2/10: Nokia released Qt Extended 4.4.1 (image, SDK)27/9: another release of FDOM19/9: point release of Om 2008.9	<h4>About Openmoko</h4> <ul style="list-style-type: none">IntroductionWhy OpenmokoNeo FreeRunner phoneSupported Hardware

Openmoko 全球龐大社群

造訪次數



統計數字至 2008-09-17

- 全球註冊用戶共 10,689 名
- 共上傳 760 個檔案
- 共建立了 4,517 個頁面
- 共有 9,143,359 個 page views
- 頁面被編輯共 53,986 次

讓全球數以萬計的社
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建立 *wiki* 帳號

1.加入 Openmoko Wiki 編輯行列

- 點擊右上方的「create account」

Main Page - Openmoko

/wiki/Main_Page

discussion view source history

Page

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Openmoko™ - Open. Mobile. Free.

Openmoko™ is a project dedicated to delivering mobile phones with an open source software stack. Openmoko will start selling the Neo FreeRunner phone to advanced users and will start selling it to the general public as the software is more developed.

moko stack, which includes a full X server, allows users and developers to transform mobile hardware into unique products. Our license gives developers and users freedom to cosmetically customize their

Neo FreeRunners

2. 再點擊「Create an account」

The screenshot shows a web browser window for the Openmoko wiki at http://wiki.openmoko.org/index.php?title=Special:Userlogin&returnto>Main_Page. The page displays a login form with a prominent orange button reading "Don't have a login? **Create an account.**". The browser's address bar also shows the URL. On the left, there is a sidebar with sections for Navigation, Community, and Interactive, each containing several links. The main content area includes a "Log in" section with fields for Username and Password, and a "Remember my login on this computer" checkbox.

Log in / create account - Openmoko

http://wiki.openmoko.org/index.php?title=Special:Userlogin&returnto>Main_Page

RSS Google

124.219.5.210 talk for this ip log in / create account

WIKI DOCS PLANET PROJECTS LISTS

special

Log in Don't have a login? **Create an account.**

Log in

Don't have a login? [Create an account.](#)

You must have cookies enabled to log in to Openmoko.

Username:

Password:

Remember my login on this computer

[Log in](#) [E-mail password](#)

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- [opkg](#)

Community

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- [Press Coverage](#)
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- [Help](#)

3. 填寫註冊表單

- 註冊後系統會自動發出 email，請依 email 指示啟用帳號。

Create account

Already have an account? [Log in.](#)

Username:

Password:

Retype
password:

E-mail:

E-mail address is required.

Real name:

Real name is optional and if you choose to provide it this will be used for giving you attribution for your work.

Remember my login on this computer

[Create account](#)



編輯 *wiki* 加入專案

進入繁體中文 Wiki 首頁

Main Page/zh_tw – Openmoko

http://wiki.openmoko.org/wiki/Main_Page/zh_tw

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openmokowiki

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page discussion edit history move watch

Main Page/zh_tw

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Openmoko 講義下載

講題	時間地點	簡介
Openmoko Linux 2008 開放手機新體驗	台北科技大學 資訊工程系 10/16 (四)	開放手機、如何在Om2008.8撰寫EFL應用程式並編譯
成功大學電機工程學系: 開放手機平臺軟體發展技術 第一次訓練課程	成功大學 電機工程系 10/9 (四)	在Om2007.2寫GTK+、在Om2008.8寫EFL應用程式並編譯

Openmoko Students & Projects

學生	校系	學校專案
葉柏毅(*),朱家澤, 林柏君	Dept. CS&IE, National Taipei University (國立台北 大學資工系)	Location-based mobile video streaming system

Neo FreeRunner 台灣區團購開始了!

Neo FreeRunner 台灣區團購活動開始囉!即日起,只要前往活動網頁加入團購計畫,即可以最優惠的價格,購得Neo FreeRunner,完成您的開發夢想計劃囉。



1. 點擊「edit」編輯頁面

Main Page/zh_tw – Openmoko

http://wiki.openmoko.org/wiki/Main_Page/zh_tw

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openmokowiki

edit

move watch

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2. 將自己的專案加入表格

```
{  
! colspan="3"!<h3>Openmoko Students & Projects</h3>  
!- style="background-color:#ff6600;cellspacing=6px;cellpadding=3px"  
! 學生 !! 校系 !! 學校專案  
!- style="background-color:#eeeeed;cellspacing=6px;cellpadding=3px"  
|葉柏毅(*),朱家澤,林柏君 !! Dept. CS&IE, National Taipei University (國立台北大學資工系) !! [[Location-based mobile video streaming system]]  
|- style="background-color:#eeeeed;cellspacing=6px;cellpadding=3px"  
|林小寶 !! 大寶大學資訊系 !! [[Shaking Game]]  
|  
|}  
新欄位
```

- 新增一個欄位
- 加入專題成員、校系以及專案名稱
- 建立一個專案名稱的專屬連結內面
- 讓全球社群都能看到、專案名稱請用英文

3. 點擊自己專案的連結

Main Page/zh_tw – Openmoko

http://wiki.openmoko.org/wiki/Main_Page/zh_tw

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openmokowiki

WIKI DOCS PLANET PROJECTS LISTS

page discussion edit history move watch

Main Page/zh_tw

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葉柏毅(*),朱家澤, 林柏君	Dept. CS&IE, National Taipei University (大學生資工系)

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4. 建立專案頁面

```
'''Project Title''' : Location-based mobile video streaming system  
'''Project team members''' :  
*葉柏毅  
*朱家澤  
*林柏君 (lead)  
'''Contact email''' : sherry7737 (at) hotmail [DOT] com  
'''University''' : Dept. CS&IE, National Taipei University (國立台北大學資工系)  
'''Short description''' :  
The purpose of this project is to allow the mobile user to transfer his  
video stream, along with GPS data, back to the back-end server in real-time.  
That is, while the user is moving in the field, recorded video stream with  
tagged GPS data will interactively send back to the server for storage. One  
of the possible usages of this system is that user can save his on-line  
video file back to his blog and embedded into a map with the help of GPS  
data.  
'''Links to project resources''' : Not yet available
```

- 在新增的頁面加入自己的專案描述
- 請依格式撰寫、參考上述範例
- 讓全球社群都能看到、專案名稱請用英文

wiki 編輯語法

- Begin at the new line : <Enter>,

- Bold : "**Neo FreeRunner**"
- Italic : "*Neo FreeRunner*"
- 大標題 : **=Neo FreeRunner=**
- 中標題 : **== Neo FreeRunner==**
- 小標題 : **=== Neo FreeRunner=====**
- 項目*
- 次項目**
- 縮排：
- 再縮排::
- 加入分隔線---
- 加入內部連結 [[文章標題 |文字標註]]
- 加入外部連結 [<http://tw.yahoo.com/> (空格)文字標註]
- 加入影像 [[Image:Icon-Style1.png]]
- 加入分類 [[category:Software]]
- 使用範本 {{mainpage}}
- 停用目錄功能 __NOTOC__



取得更多與更新教材

http://wiki.openmoko.org/wiki/Main_Page/zh_tw

或 Email 至 jollen@openmoko.com 加入教材郵件名單

Openmoko Team

<http://www.openmoko.com>