

# from GTK to OpenMoko App

tangoGPS - Application Development  
for OpenMoko on the Desktop

FOSDEM 2008 - Marcus Bauer

# Talk Content

- Quick overview of
  - Hardware platform: Neo 1973/Freerunner
  - Software platform: OpenMoko
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# The Hardware Platform

## Neo 1973 / Neo Freerunner

- a full blown, tiny Linux computer
- 480x640 screen
- plus GSM modem
- plus GPS
- with BT, Wifi
- with USB (device and host mode)

# The Software Platform

OpenMoko – *the stripped down version:*

- X
- GTK (gconf, dbus etc.)
- OpenEmbedded

# OpenEmbedded

- build environment incl. cross compiler
- kind of Gentoo like (plus a lot more)
- MokoMakfile for automagic setup

How to get started in 15 min.

?

# MokoMakefile

```
wget http://www.rwhitby.net/files/openmoko/Makefile  
make setup  
make openmoko-devel-image
```

That's it to set up your dev environment

# IDE

- Anjuta or any other IDE
- Glade
- autotools
  
- add some UI elements
- do just normal desktop development
- build project tar ball



# bitbake

## Recipe:

DESCRIPTION = "tangoGPS map"

LICENSE = "GPLv2"

SECTION = "x/applications"

PRIORITY = "optional"

PR = "r1"

SRC\_URI = "<http://tangogps.org/tangoGPS-0.1.tar.gz>"

inherit autotools

# compile and install

```
bitbake -v tangoGPS  
ipkg install tangoGPS
```

Done!

# tangoGPS

- map application designed for the Neo
- uses: gconf, dbus, libcurl, GdkPixbuf
- runs w/o changes on desktop



# Future Development

- Friendfinder
- POI
- track management
- OSM integration

# Why to develop for OpenMoko

- It's fun!
- Most open platform for now
- Many things to be done - easy to enter
- GTK: mature, big mindshare, many supporters (LiMo, Nokia...)
- Great opportunity for FOSS

# More Details on:

<http://tangogps.org/fosdem>

<http://www.openmoko.org>

<http://www.openstreetmap.org>

<http://www.openembedded.org>