



# Android on Freerunner

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# Agenda

- Past



- Present

- Core Team
- The Code
- Achievements

- Future

- Q&A



# Past

- Koolu initiative ..
  - Ambition to port Android to Freerunner
  - Selling Freerunners with Android pre-installed
  - Code available
  - Brian Code, Jon Maddog Hall and others
  - 7 Betas released



# Past

- Koolu initiative .. died ..
  - Development stalled
  - No feedback on user forums
  - Mails sent by community to personnel
  - Project went mute



# Past

- Koolu initiative .. died .. community took over
  - Code hosted on Gitorious  
<http://gitorious.org/android-on-freerunner>
  - Release builds and Wiki on Google Code  
<http://code.google.com/p/android-on-freerunner/>
  - Mailing list on Google Groups  
<http://groups.google.com/group/android-on-freerunner>
  - First release AoF Cupcake v0.1



# Agenda

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- **Present**



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# Present – Core Team

## **Michael Trimarchi, Main developer and administrator**

- Michael is member of the Penguin Software group, specialised in software engineering services for Linux-based and custom Embedded and Real-Time systems

This team contributes to the Linux kernel, U-Boot, OpenMoko, Android on Freerunner and iBurst



# Present – Core Team

## **Jim Ancona, Main developer and contributor**

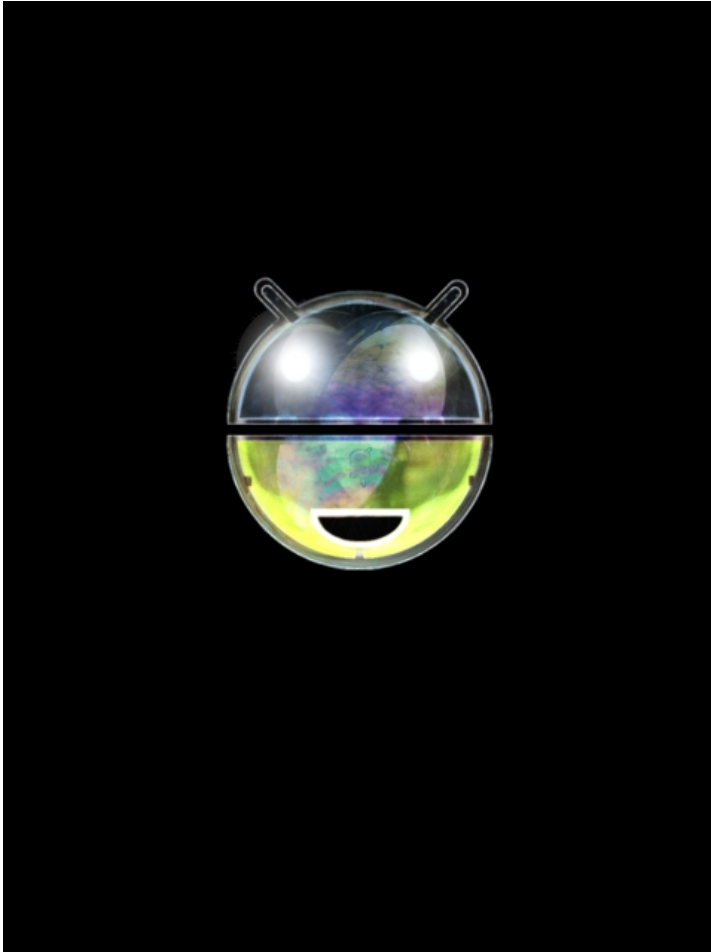
- Jim is an experienced developer and has contributed to different open source projects. He is a committer on the Apache Abdera project and AoF.

## **Serdar Dere, Release management and builds**

- Serdar is studying computer science at the Heinrich Heine University of Düsseldorf. He supports the project with daily and weekly builds and was responsible for preparing release v0.2 RC1.



# Present – Core Team



## Damir Olejar, Project Artwork

- Damir has contributed a touch of creativity to the Android on FreeRunner project. He's currently working Cognitive Science and Artificial Intelligence projects.



# Present – Core Team

## Project Support:

- **Lars Lindholm**
- **Harry Mutch**
- **Niels Heyvaert**



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# Present – The Code

Two flavours are being maintained:

- Cupcake
  - Considered more stable
  - Better performance overall
- Eclair (Master)
  - Considered less stable
  - More experimental
  - Poorer performance overall



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- **Achievements**



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# Present - Achievements

- Numerous bug fixes
  - Fixed Airplane mode
  - Wifi, GPRS and GPS stability
  - ...
- Improvements
  - Dropbear SSH
  - Dynamic CPU frequency scaling
  - Reduced power drain
  - ...



# Present - Achievements

- Own artwork and music



# Present - Achievements

- 20/09/2009 – Initial community release
- 22/09/2009 – Bug fix release
- 01/02/2010 – Release Candidate 1 of v0.2

Full list of changes on v0.2 RC1 available via  
<http://serdar-dere.net/~serdar/cupcake.txt>



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  - *Achievements*

- **Future**



- Q&A



# Future

- Roadmap – Short Term
  - Fix audio recording
  - Improve GPRS stability
  - Fix random wakeups
  - Improve graphic performance
  - Include USB camera support
  - Fix suspend issues
  - Fix long press of AUX and Power buttons



# Future

- Strategy
  - Concentrate on Master
  - Contribute changes back to Android Open Source Platform
  - Maintenance fixes on Cupcake



# Future

- Long Term
  - Move to kernel 2.6.3x (cfr. Other Openmoko Distros)
  - Use libdrm and glamo
  - Replace Google-proprietary functionality (Maps API, Google account login/sync, etc.)



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# Join us

- Wiki

<http://code.google.com/p/android-on-freerunner/>

- Mailing List

<http://groups.google.com/group/android-on-freerunner>

- Source code

<http://gitorious.org/android-on-freerunner>

- IRC

<irc://irc.freenode.net/android-on-freerunner>

