## How the Fedora Project works



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### **Robert Scheck**

Fedora Package Maintainer and Provenpackager Fedora Ambassador and Ambassador Mentor Part of Fedora Websites and Translation teams Open Source Contributor and Software Developer

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### **History**

A long, long time ago...

...between 1994 and 2003...

...in a country far, far away...

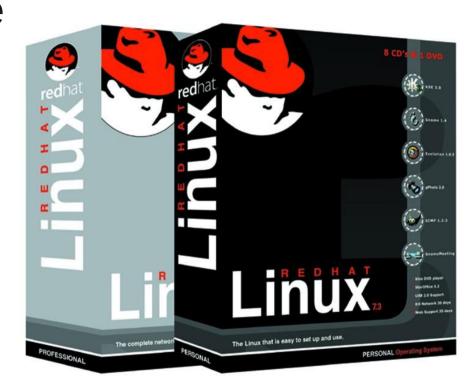
...Raleigh, North Carolina, US...

...there was a Linux distribution named...



### **Red Hat Linux**

- Commercially available as box with CDs and printed manual
- Concurrently available as free download on the Internet
- New versions released about every 6 months





### **Problems**

- Less profit with commercially sold boxes
- Main profit due to large business customers
- Different product and support life times
  - → Between 18 months and 5 years
- No stable and reliable base for partners
- Extreme between innovation vs. stabilization



#### **Answer**

Split-up into two different Linux distributions:



Fedora Core



Red Hat Enterprise Linux



### Fedora vs. RHEL

- Free available
- Short release cycle:6 months
- Latest software
- 13 month support and product life time
- Free support by the community
- Early adopters

- Subscription
- Long release cycle:2-3 years
- Stable software
- ▶ 10-13 years support and product life time
- Support contract with Red Hat
- Business customers



### **Fedora**

- Fedora is the red hat in the Red Hat logo
- But: Fedora is not Red Hat
- fedora.us project was an add-on RPM repository for Red Hat Linux
- Red Hat Linux became Fedora Core, fedora.us became Fedora Extras
- Fedora 7 merges Core and Extras



### 4 Foundations

#### Our 4 core values:

- Freedom
- Friends
- Features
- First



### Foundation: Freedom

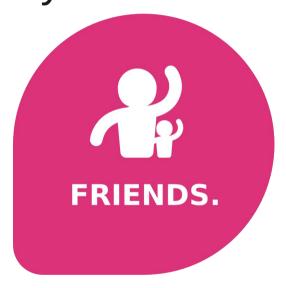


- Only free software
- Free to use
- Free to share and copy
- Free to modify



### Foundation: Friends

- Fedora is driven by the community
- Very active community
- Respectful coexistence
- Cooperation with developers and distributions





### Foundation: Features



- Fedora offers new features
- Uses and creates standards
- Works closely with upstream developers and projects
- Very open and transparent development process



### Foundation: First

- Fast integration of new software
- Developing new technologies
- Rapid release cycle
- Sometimes the first to fail





### Fedora-driven Developments

- SELinux: Access control security policies
- NetworkManager: Network simplifying
- D-BUS: Simple inter-process communication
- PolicyKit: Controlling system-wide privileges
- PackageKit: Package management frontend
- PulseAudio: Networked sound server
- systemd: System V init daemon replacement



### Follow upstream

- Get and keep in touch with the developers
- Participate and involve at development
- Support upstream with debugging and fixing
- Send all patches to upstream developers
- Keep using existing standards
- Do nothing that the upstream developer of a program would not do



### Easy downstream

- Allow others to use Fedora as base
- Easy rebranding
  - fedora-release
  - fedora-release-notes
  - fedora-logos
- More than 40 Linux distributions are based on Fedora, starting with RHEL, over OLPC Linux, to exotics like Niigata or Kororaa

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#### Structure

- Sub-projects: Ambassadors, Design, Websites, Packaging, Documentation, Quality Assurance, Translation, Infrastructure, ...
- Lead of sub-projects by Steering Committees: FESCo, FAmSCo, FDSCo, FLSCo, ...
- Special Interest Groups: KDE SIG, Fonts SIG, EPEL SIG, Cloud SIG, Games SIG, ...
- Fedora Board is the political head
- Democratic votings



### Communication

- Mail and mailing lists
- IRC
- IRC meetings
- Phone and VoIP
- Face to Face
- Bug tracker
- Trac and Wiki



#### **Features**

What is a feature? A feature is...

- a change clearly identifiable as such for users
- a change that requires coordination between different groups or teams
- a new function that only Fedora has
- important enough to delay a Fedora release
- remarkable enough to be mentioned in the Release Notes

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### Feature process

- Each feature needs a wiki page
- Wiki page is reviewed by the Feature Wrangler
- Wrangler releases the page for FESCo
- FESCo decides and votes on the feature
- Feature will be realized and implemented
- Check at each milestone if the feature is complete



### Milestones & Schedule

Planning and Development for Fedora 19 begins	2013-01-15
Feature and Spin Submission Deadline	2013-01-29
Feature and Spin Freeze / Branching Fedora 19	2013-03-12
Alpha and Software String Freeze	2013-04-02
Alpha Release	2013-04-16
Software Translation Deadline	2013-05-06
Beta Change and Features Complete Deadline	2013-05-07
Beta Release	2013-05-21
Final Change Deadline	2013-06-10
Compose "Final" Release Candidate (RC)	2013-06-11
Release / General Availability (GA) of Fedora 19	2013-06-25
End Of Life (EOL) of Fedora 17	2013-07-25

### Release engineering

- Manages the build system and repositories
- Creates the CD and DVD images
- Ensures keeping of the schedule
- Approves updates during freezes for releases
- Decides about the disclosure of the release



### **Spins**

- Spins are installable Live CDs of Fedora: KDE, Xfce, LXDE, Sugar, Design, Games, Security Lab, Electronic Lab, BrOffice, ...
- Adjustments for needs: Package selection, localization, small tweaks, etc.
- But: No fundamentally different distribution!
- Spins are official Fedora sub-projects
- Fedora Remixes are alternatives to spins

### **Ambassadors**

- Official representatives of the Fedora Project
- Attend conferences, trade fairs and events
- Promote Fedora to users, hand out swag
- Looking for new contributors for Fedora
- Help by pointing people into correct direction
- Handle and try to answer and satisfy all kind of requests by visitors and users at events



### **Fedora Hosted**

- Sponsored by the Fedora Project
- Alternative to SourceForge/LaunchPad
- Allows upstream developers to host their code and collaborate online
- Not necessarily Fedora-own projects
- Different VCS: GIT/BZR/HG/SVN
- Optional: Trac instance and mailman lists



# Questions?



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