Linux Desktop Innovation and Novell

A few slides, and a bunch of demos

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Session Overview

- \cdot Open Source at Novell
- · Desktop Linux
 - Why is Novell involved?
 - How is Novell is involved?
- \cdot Show some cool stuff

Open Source How Much is Novell Involved?



Novell's Open Source Participation

- · Apache
- · AppArmor
- · BetterDesktop
- \cdot Eclipse
- · Evolution
- · GNOME
- · Hula
- · iFolder
- · KDE

- · Linux Kernel
- · Mono
- · Mozilla
- · MySQL
- · OpenLDAP
- · OpenOffice.org
- · OpenSSL
- · openSUSE
- · Openswan

- \cdot PHP
- · Perl
 - · PostgreSQL
- \cdot Reiser
- \cdot rsync
- · Tomcat
- · XEN
- · YaST



openSUSE









Make SUSE Linux the easiest Linux distribution to obtain.



Make SUSE Linux the easiest Linux desktop to use for both new and experienced Linux users.



Make developing and packaging code for SUSE Linux the easiest of any Linux distribution for application developers and the hacker community.







7,000 verified installations every day (every 12 seconds); 20K registered members at openSUSE.org



Betterdesktop usability work; AppArmor now in open source; numerous Distro awards for excellence in quality and usability



Over 1000 community reported bugs; openSUSE wiki has grown more than 15x since launch Build Service launched this year

From Community to Enterprise openSUSE feeds Novell enterprise Linux offerings Novell openSUSE I inux for Various open Hardened. enthusiasts and source projects Secure. SL10.1 individual end Supported **Rapidly growing** users in number of **Certified for** SL10.0 projects and **Technical** leading Enterprise their capabilities previews and hardware and Desktop leading edge software Isolated. applications platforms **SL9.3** uncoordinated efforts 7-year code Enterprise maintenance Server SL9.2 **duarantee SL9.1**

Desktop Linux Why is Novell Involved?

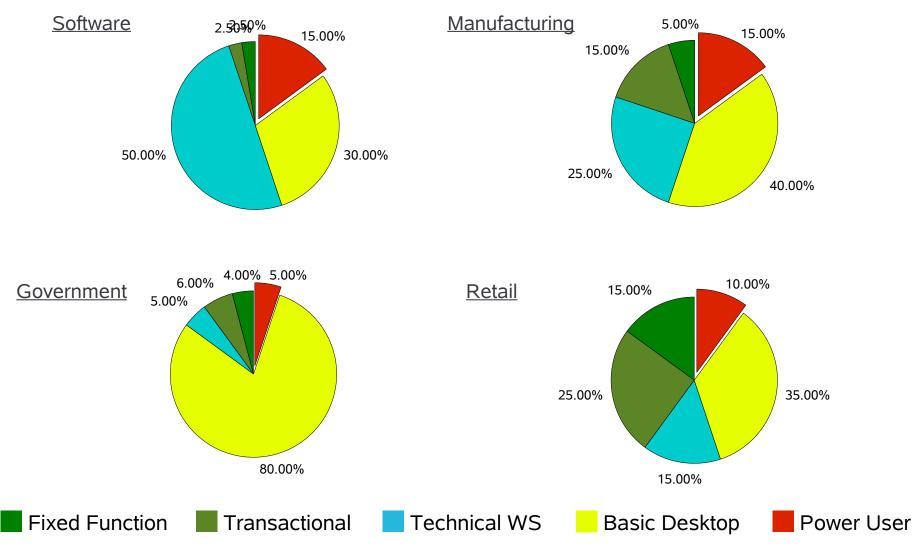




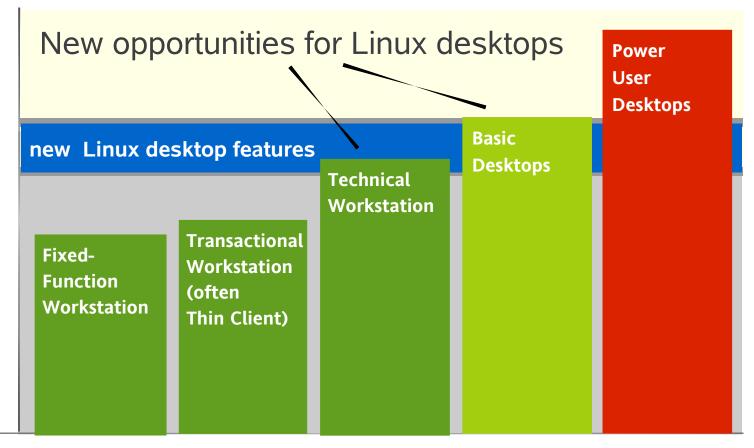
· Novell aims to help make this happen



Typical Desktop Mixes



Novell Expanding the Desktop Target



Deployment Types

Desktop Linux How is Novell Involved?

Linux Desktop Innovation Areas

- · Cool New Features
 - Simplified interface
 - Banshee, Beagle, f-spot, Tomboy, etc.
- · Multi-Media Support
 - More audio/video formats
 - Clean intellectual property

- Supports New Hardware, Plug-n-Play
 - iPod, Cameras, USB Storage
 - Power Management
 - Video Acceleration

Linux Desktop Innovation Areas

- \cdot Plays Well with Others
 - OpenOffice.org 2.0 Novell Edition
 - Interoperates better with Microsoft Office
 - > Supports VB Macros
 - > Performs better
 - Integrates with Microsoft Active Directory
 - Simplified file sharing

- Deployment and Management
 - Thin Client including Diskless
 - Central Management & Deployment
 - Desktop Lockdown
- Shared code base with SUSE Linux Enterprise Server

Linux Desktop Environments





Linux Desktop Environments



Do you have to choose?













What is the Tango Desktop Project?

The Tango Desktop Project exists to create a consistent user experience for free and Open Source software with graphical user interfaces.

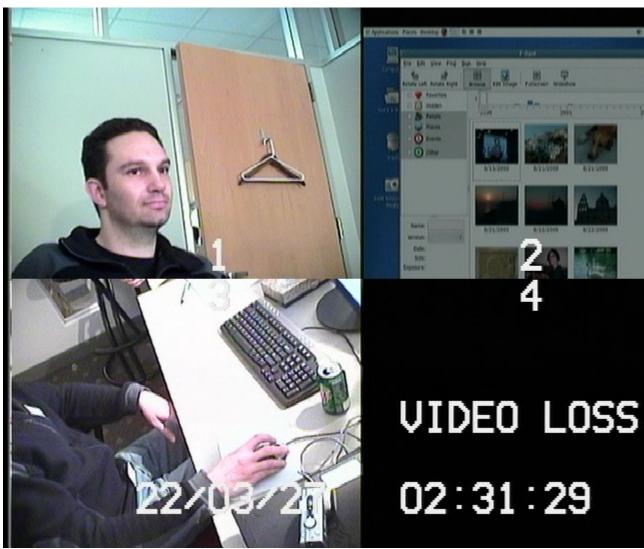
http://tango-project.org/





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Linux Desktop Usability Testing



Linux Desktop Usability Testing

- · Usability labs
 - Fixed usability labs in Boston and Utah
 - Portable usability lab for roaming
- \cdot Methodology

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- Continuous, iterative testing
- 15-20 tests per week
- · Subjects
 - Dedicated usability test recruiter

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Usability Testing Who Do We Test?

- \cdot Test subjects came from the following industries:
 - Education
 - Medical
 - Government
 - Finance/Insurance
 - Commercial Construction
 - Technology
- · Computer experience:
 - Mostly intermediate-level Windows users
 - Looked for people without any Linux experience, and without "techy" jobs



- \cdot Why do usability testing?
 - Linux must be easier to use and easier to learn
 - It lets us measure how well each interface design meets our goals
- We share research through http://www.betterdesktop.org

	nputer	
	-	se 9.3 in a Portable Lab on the GNOME desktop. The test was
dministered in En	glish. The follo	wing is a description of the task:
"Please log i	n to the comp	uter."
7 subjects passed	this task succe	essfully.
subjects failed to	complete the	task.
he subjects distrit	oution is as foll	lows:
Total Subj	ects 17	
Male Subj	ects 3	
Female Sub	jects 14	
he subject age bro	eakdown is as t	follows;
Age Group	# of Subjects	
0-18	0	
18-30	3	
	13	
30-40		
30-40 40-55	1	
	1	
40-55		



Linux Desktop Innovation in Open Source

- · OpenOffice.org
- · Beagle: personal information search
- Novell AppArmor: secures any Linux application
- · Banshee: desktop audio player (and rights)
- **F-Spot:** photo library management
- **Tomboy:** note taking application
- Xgl: oh-so-sexy desktop graphics











Tomboy Simple note-taking. Powerful ideas.





OpenOffice.org 2.0

- Re-designed toolbar
- Uses the theme of host OS
 - Gnome, KDE, and Microsoft Windows
- Supports digital signatures and encryption enhancement
 - > Also supports password protected Microsoft Office documents
- Adds support for Xforms
- Calc now supports up to 65,000 rows and columns
 - Same as Microsoft Excel
- Impress has completely new presentation engine
- New database application



Novell is OpenOffice.org's second largest contributor.







AppArmor intrusion prevention

- Creates "firewall" around applications
- Protects against unknown application vulnerabilities
- Comprehensive wizard-based tool set, integrated in YaST
- No security expertise required
- Low performance impact (typical: < 0.2 %, worst case: 2%)



Beagle

Quickly find the stuff you care about.

Beagle is a search tool that ransacks your *personal information space* to find whatever you're looking for. Beagle can search in many different domains.



Find everything fast

Using Beagle, you can easily find:

- 🔸 📓 documents
- 🔹 🖾 emails
- 💿 web history
- 🗟 IM/IRC conversations
- 💇 source code
- 🔹 🔤 images
- 🖸 music files
- 🗟 applications
- ... and much more

²⁶ http://beaglewiki.org



music management and playback for gnome



What does Banshee do?

- Easily manage your music collection
- Synchronize your iPod with your Linux desktop
- Play music directly from your iPod
- Import CDs
- Create audio and MP3 CDs from your music collection

Why is Banshee important?

- It's all legal and indemnified by Novell for our users
- Uses the Helix engine and licenses from Real Network





F-Spot provides personal photo management on the Linux desktop.

Features include import, export, printing and advanced sorting of digital images







Description not sexy enough?

That's because no mere mortal should have to know anything about "OpenGL hardware functions"

(Yes, Xgl has been submitted for inclusion into the X Window source tree.)

Linux Desktop Conclusion

- · OpenOffice.org
- · Beagle: personal information search
- Novell AppArmor: secures any Linux application
- · Banshee: desktop audio player (and rights)
- **F-Spot:** photo library management
- **Tomboy:** note taking application
- Xgl: oh-so-sexy desktop graphics

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