



Fedora Project

Your Name

Your Title(s)

Relevant SIG/Project Affiliation(s)

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this talk is about:

what is Fedora?

who is Fedora?

why does Fedora matter?

how do you join the open source movement?



what is Fedora?



**...a powerful operating
system...**

stable

secure

innovative

fedora^f

/* the best of what works today */

...a powerful operating system...

stable

secure

innovative

fedora^f

...a set of projects...

fedora^f

...a set of projects...

Influencing JBoss.org...



software packages

kernel, glibc, system libraries...

networking, data processing, analysis...

productivity, entertainment, multimedia...



`/* more than 6000 */`

software packages

kernel, glibc, system libraries...

networking, data processing, analysis...

productivity, entertainment, multimedia...



software packages

OpenJDK 6 in F9, IcedTea 7 in F8 & F9...

Eclipse, JPackage, koji/bodhi...



/* Developer SIG spin */

software packages

OpenJDK 6 in F9, IcedTea 7 in F8 & F9...

Eclipse, JPackage, koji/bodhi...



Sun, 04 May 2008 14:50:29 UTC | [login](#)

Welcome to Koji Web

Recent Builds

Build 1 through 10 of 47980 >>>



Page: 1

NVR	Finished ▼	State
kbibtex-0.2.1-18.fc9		
scons-0.98.3-1.fc9	2008-05-04 14:47:43	
scons-0.98.3-1.fc10	2008-05-04 14:46:21	
kbibtex-0.2.1-15.fc8	2008-05-04 14:39:26	
kdelibs-4.0.72-2.fc10	2008-05-04 13:39:45	
bugzilla-3.0.3-0.fc10	2008-05-04 13:03:34	
uniconvertor-1.1.2-2.fc10	2008-05-04 12:51:25	
uniconvertor-1.1.2-1.fc7	2008-05-04 12:04:15	
uniconvertor-1.1.2-1.fc8	2008-05-04 11:54:57	
uniconvertor-1.1.2-1.fc9	2008-05-04 11:43:15	

Recent Tasks

Tasks 1 through 10 of 184788 >>>

Page: 1

ID	Type	Arch	Finished ▼	State
594683	build (dist-f9-updates-candidate, F-9:kbibtex-0_2_1-18_fc9)	noarch		
594660	build (dist-f8 - spicebird-0.4-1.fc8 src mm)	noarch		



Fedora 7

Pending (53)



Testing (218)



Stable (4231)



Security (329)



Fedora 8

Pending (69)



Testing (298)



Stable (2762)



Security (186)



Fedora 9

Pending (101)



Testing (0)



Stable (0)



Security (0)



Comments

Login

Welcome to bodhi.



Latest Updates

Update	Release	Status	Type	Request	Karma	Submitter	Age
te sse ract-2.03-1.fc8	Fedora 8	pending				karlik	1 hour
uniconvertor-1.1.2-1.fc7	Fedora 7	pending				andriy	2 hours
uniconvertor-1.1.2-1.fc8	Fedora 8	pending				andriy	2 hours
uniconvertor-1.1.2-1.fc9	Fedora 9	pending				andriy	3 hours
python-alsa-1.0.16-1.fc9	Fedora 9	pending				andriy	3 hours

Latest Comments [\[more\]](#)

Update	Comment	From	Karma
iproute-2.6.25-1.fc9	It did in fact fix bug 444520 for me. I did see some odd things with connection tracking until I restarted iptables which reloaded a connection tracking module. So if you install this you may need to do that if you don't reboot. Since I restarted iptables everything seems to be fine.	bruno	
netembryo-0.0.4-1.fc7	erer	Anonymous Tester	
	Lately F7 updates have been appearing in race many days		

/* Developer SIG spin */

software packages

OpenJDK 6 in F9, IcedTea 7 in F8 & F9...

Eclipse, JPackage, koji/bodhi...



/* Developer SIG spin */

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OpenJDK 6 in F9, IcedTea 7 in F8 & F9...

Eclipse, JPackage, koji/bodhi...

GNU Classpath, GCJ, LAM* frameworks



translation

Ich bin Fedora

Yo soy Fedora

...



/* dozens of languages */

translation

Ich bin Fedora

Yo soy Fedora

...



/* dozens of languages */

translation

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<http://translate.fedoraproject.org>



artwork

community-led

free software tools

open process



/* icons, backgrounds, themes */

artwork

community-led

free software tools

open process



documentation

“kinder, gentler subproject”

anyone can write and edit

supports translations



/* release notes, guides, wiki */

documentation

“kinder, gentler subproject”

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ambassadors

look for the blue shirts
at an event near you



/* worldwide goodwill */

ambassadors

look for the blue shirts
at an event near you

fedora^f

infrastructure

web and database servers

account system

build systems



/* keep everything running */

infrastructure

web and database servers

account system

build systems



websites

community designed

community built

public assets



/* make it pretty for the public */

websites

community designed

community built

public assets



bug triage

revitalized project

1000s of bugs, many are easy to fix

clear the way for harder work



`/* fix things more quickly */`

bug triage

revitalized project

1000s of bugs, many are easy to fix

clear the way for harder work



marketing

messaging guide

feature following

interviews, blogs, press



/* spread the message */

marketing

messaging guide

feature following

interviews, blogs, press



who does all this?



you do

fedora

get an account

as easy as any social site

fedora^f

<http://fedoraproject.org/join-fedora>

get an account

as easy as any social site



<http://fedoraproject.org/join-fedora>

what do you like to do?



<http://fedoraproject.org/join-fedora>

do it in Fedora

fedora^f

Fedora == do it

empower the community to take the reins

no dividing line



`/* fanboys != contributors */`

Fedora == do it

empower the community to take the reins

no dividing line



out of the chaos, innovation

we believe in upstream

we believe in the community

we believe in **YOU**



/* “if you want to try and stop me...” */

out of the chaos, innovation

we believe in upstream

we believe in the community

we believe in **YOU**



innovation never rests

stable, not steady-state

other options for long-term production

we are upstream for others



/* release every 6 months */

innovation never rests

stable, not steady-state

other options for long-term production

we are upstream for others



community power

music, art, security...

the newest open source community is still out there, waiting...



/* spin your own */

community power

music, art, security...

the newest open source community is still out there, waiting...

fedora^f

the world comes to us

open standards

open governance

open hands

fedora^f

/* freedom is a human need */

the world comes to us

open standards

open governance

open hands

fedora^f

THANK YOU.





Fedora Project

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1

It's great to be here at \$EVENT. Thanks for inviting Fedora and giving me an opportunity to talk about this exciting project.

\$YOUR_NAME, and your biography that is relevant to this event.

this talk is about:

what is Fedora?

who is Fedora?

why does Fedora matter?

how do you join the open source movement?



2

What is Fedora. Who is Fedora. Why does Fedora matter.

My task is to take a step away from a standard Fedora talk and share with you why Fedora matters to an audience of developers, whose goals may be different from those of a classic Linux enthusiast.

Why does Fedora matter to you? It is a great platform for developing. OpenJDK works great under Linux because of the work of Fedora engineers. Eclipse works under Linux because of the work of Fedora engineers. For projects from GNU Classpath to gcj, you find Fedora developers at the center of the decision making and activities. All of that work finds its way in to Fedora as well as other communities.

Fedora is also about making an impact, and of all these questions, this is really the most important one. You may have answered that question for yourself already, and I'd like to add to that, too.

For the slideware part of this talk, I'll try to be as brief as possible because I'd rather you, the audience, participate with your questions. The issues that are important to you are going to guide you within the open source movement, and so they are important to me. Please ask questions.

what is Fedora?



3

This is an audience that has heard of Fedora and may have used it or one of its stable forks, such as RHEL and CentOS. But if your focus is more on your languages and projects, an OS is just another kind of bicycle. It has two wheels, gears, and it can get you from here to there at varying speeds.

To make sure this talk is relevant for you, I'm going to take a few minutes covering what Fedora is, from the perspective of Fedora. It is more than just a logo in front of Yet Another Linux Distro. The logo is a symbol of a community of people united to advance the ideas and ideals of free and open source software.

Fedora has many different meanings, depending on its context. But the underlying theme is always clear: Free and legal for everyone, now and always, for you and for anyone to whom you give Fedora.

We will never violate this tenet.

We do not pass on legal encumbrances to our users or any of our community. You can give a complete copy of Fedora to anyone, at any time, no matter where in the world you live.

...a powerful operating system...

stable

secure

innovative



4

One way to describe Fedora is as an operating system.

It's a general-purpose computing platform, built on the Linux kernel, with an enormous selection of free and open source application software suitable for use by everyone from children to old, grizzled sysadmins.

*/*click*/*

It's stable enough to use every day. Millions of people do.

Fedora pioneered the best in open-source security, SELinux. Other distributions, some of them after trying alternatives, are coming around and realizing this. SELinux is one of those implementation details that makes for a very secure server that, as a developer, you can mostly forget about. The SELinux team is highly responsive to making policy updates.

We host and seed some of the newest projects that offer end-user convenience, features, and whiz-bang. Experience has borne out that we typically make really good architecture decisions (SELinux, compiz, PolicyKit...) and provide underlying capabilities that are important to a wide range of audiences (developers, sysadmins, end-users, various SIGs, ...)

`/* the best of what works today */`

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...a set of projects...



6

One way to move a massive organism around is to divide it into a thousand parts that self-organize and move toward a common goal.

For Fedora, that common goal is the advancement of free and open source software. The method of having many projects self-govern, building strong community, and strong interactive bonds amongst other special interests ... this is the open source methodology.

Within those projects we don't just talk about what we love in Fedora, we talk about what we HATE. And how to fix it. If you've ever read fedora-devel-list, or many of the other lists, you get a direct view of opinions meeting head-on. Experience shows us, this is a great way to get some good ideas and move ahead with them. Is that always going to bring the best ideas? No, but it will often enough, and the rest is good enough to call GOLD.

...a set of projects...

Influencing JBoss.org...



7

One of the changes that came to Jboss after joining Red Hat was a new business model. Rather than selling support for the tip of development, the subscriptions are around stable and tested versions derived from an active community always focusing on features, first. Now Jboss.org is learning from Fedora, adopting parts of the community management model. The learning goes both directions. If ever we are going to see a healing of the ages between Java and Linux enthusiasts, it is going to come from these groups. That, or the next major war.

software packages

kernel, glibc, system libraries...

networking, data processing, analysis...

productivity, entertainment, multimedia...



8

This is truly the core and the biggest part of Fedora.

*/*click*/*

This is where our mantra is clear: upstream.

Now, why is it significant that, for example, Fedora community members that include Red Hat engineers are the #1 biggest contributor of code to the Linux kernel?

This is because of the upstream mantra. Imagine a real stream.

You do not just draw water from that stream forever, taking resources as if it is going to flow and flow.

Instead we travel upstream and help implement good irrigation policies. Good water management.

These policies are across many thousands of packages, and produce growth throughout the open source ecosphere amongst thousands of vibrant software projects. This goodness benefits us all, coming back around to Fedora magnified.

`/* more than 6000 */`

software packages

kernel, glibc, system libraries...

networking, data processing, analysis...

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fedora 

9

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software packages

OpenJDK 6 in F9, IcedTea 7 in F8 & F9...

Eclipse, JPackage, koji/bodhi...



10

Other packages important to developers: OpenJDK 6 is now in Fedora 9, coming next week. IcedTea 7/OpenJDK 7 are in F8 & F9. These are some of the areas that matter to the Developer SIG. /*click*/

There is an affinity between Jpackage and Fedora, and you are going to see a lot more connection between these communities. Having a FLOSS JRE makes many new things possible.

Koji and bodhi are examples of Web/Infra servicing developers. /*click*/

You submit builds via koji, which checks out the source, builds the archives, and makes them available for signing. /*click*/

Bodhi is a web front-end to manage building distros; push package updates; automated testing; eases community testing and involvement; direct access to developers and packagers. /*click*/

The range of software and community services makes Fedora an attractive development environment. /*click*/ The connection between Fedora and important projects (GNU Classpath, GCJ, LAM frameworks...) makes Fedora enticing to contribute to.

/* Developer SIG spin */

software packages

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The screenshot shows the Koji Web interface. At the top, there's a navigation bar with tabs: Summary, Packages, Builds, Tasks, Tags, Build Targets, Users, Hosts, Reports, and Search. Below the navigation bar, it says "Welcome to Koji Web" and "Recent Builds". The "Recent Builds" section shows a table of builds with columns: NVR, Finished, and State. The table lists several builds, including kbitex-0.2.1-18.fc9, scons-0.98.3-1.fc9, scons-0.98.3-1.fc10, kbitex-0.2.1-15.fc8, kdelibs-4.0.72-2.fc10, bugzilla-3.0.3-0.fc10, uniconvertor-1.1.2-2.fc10, uniconvertor-1.1.2-1.fc7, uniconvertor-1.1.2-1.fc8, and uniconvertor-1.1.2-1.fc9. Below the "Recent Builds" section, there's a "Recent Tasks" section showing a table of tasks with columns: ID, Type, Arch, Finished, and State. The table lists two tasks, 594683 and 594660, both of type "build" and arch "noarch".

fedora^f

12

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The screenshot shows the Bodhi web interface. On the left is a sidebar with navigation links for Fedora 7, 8, and 9, categorized by Pending, Testing, Stable, and Security updates. The main content area displays a 'Welcome to bodhi.' message, a 'Latest Updates' table, and a 'Latest Comments' section.

Welcome to bodhi.

Latest Updates

Update	Release	Status	Type	Request	Karma	Submitter	Age
lesseract-2.03-1.fc8	Fedora 8	pending	bugfix	yes	neutral	karlik	1 hour
unicovector-1.1.2-1.fc7	Fedora 7	pending	feature	yes	neutral	andriy	2 hours
unicovector-1.1.2-1.fc8	Fedora 8	pending	feature	yes	neutral	andriy	2 hours
unicovector-1.1.2-1.fc9	Fedora 9	pending	feature	yes	neutral	andriy	3 hours
python-alsa-1.0.16-1.fc9	Fedora 9	pending	feature	yes	neutral	andriy	3 hours

Latest Comments [\[more\]](#)

Update	Comment	From	Karma
iproute-2.6.25-1.fc9	It did in fact fix bug 444520 for me. I did see some odd things with connection tracking until I restarted iptables which reloaded a connection tracking module. So if you install this you may need to do that if you don't reboot. Since I restarted iptables everything seems to be fine.	bruno	neutral
netembryo-0.0.4-1.fc7	error	Anonymous Tester	neutral

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/* Developer SIG spin */

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translation

Ich bin Fedora

Yo soy Fedora

...



16

L10n is an important part of a global Fedora community. We are fortunate to have a strong set of locale teams, some active since the pre-Fedora days. */*click*/* The L10n project has grown to be another significant contributor to the Fedora experience.

Last summer mentored Dimitris Glezos GSoC project, translate.fedoraproject.org. */*click*/*

DamnedLies and Transifex, which is a web-based tool for submitting translations.

Tx sits in front of multiple upstream VCSes, translators commit their translations through one interface. Upstream projects can approve the single committer from the Tx project, giving just the permissions needed for translation. This project has captured the attention of other major open source projects. It does more than just solve Fedora's problems with l10n, it presents a better solution for other open source communities.

`/* dozens of languages */`

translation

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artwork

community-led
free software tools
open process



19

It is -- icons, backgrounds, themes /*click*/

Changed for each release, entirely driven and produced by the community.

Being a digital artist is not a requirement, but such folks are encouraged to come, too. :)

`/* icons, backgrounds, themes */`

artwork

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20

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documentation

“kinder, gentler subproject”
anyone can write and edit
supports translations



21

I've been docs lead for several years, near and dear to me. /*click*/ We produce the best release notes of any Linux distribution, distilled from dozens of contributors on the wiki into SRPM. Installation, Software Management. Updates coming to User and Administrator guides. Main goal from here is going to be documenting for other Fedora contributors, everything from getting involved to packaging to developing through Fedora.

Encourage new contributors, Docs is a gateway project for folks. We are happy to train up people for contributing in other parts of Fedora.

Wiki for community documentation, with conversion to DocBook XML for longer term maintenance, translation, ease of output, etc. OpenJDK in Fedora has given us FOP, which means we can finally dump the passivetex method for making PDFs. That non-free JRE has been a PITA for a long time.

Lots of new goodness coming here, we're looking to begin using and contributing to an upstream project.

`/* release notes, guides, wiki */`

documentation

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ambassadors

look for the blue shirts
at an event near you



23

Our ambassador community has tripled to over 300 persons in multiple countries around the world.

*/*click*/*

These are the folks in the Fedora shirts at conferences, tradeshow, and scrappy anti-conventions. Former FPL Max Spevack is moving to Europe to support the very successful EMEA Ambassadors, with one coming soon for APAC.

/* worldwide goodwill */

ambassadors

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infrastructure

web and database servers

account system

build systems



25

Great sysadmin team, nearly entirely volunteers with their leader hired by Red Hat from doing the job as a volunteer to leading the project full time. /*click*/

Using only free and open source software, this global team provides a quality of service you usually only find in mature, paid organizations. This is all done while knowing they need to be both stable over the long term and provide up-to-date development resources. This is done with a blend of Enterprise Linux and virtualization, so they can run the latest Fedora for new projects.

`/* keep everything running */`

infrastructure

web and database servers

account system

build systems



26

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websites

community designed
community built
public assets



27

The Fedora Websites team designs and implements a full set of interfaces for all of the Web applications used by Fedora contributors on a daily basis. /*click*/

That includes:

- * our main site
- * our wiki
- * our package building and testing interfaces
- * our Web translation system
- * the administration and account system

They just finished a redesign of our Account System to make joining Fedora as easy as typing your name and email and clicking a button.

Fedora Websites contributors are also working on an exciting move to a new wiki system this summer, and a project interface called MyFedora that will make it easy for any member to find all their Fedora resources in one place.

/* make it pretty for the public */

websites

community designed

community built

public assets



28

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bug triage

revitalized project

1000s of bugs, many are easy to fix

clear the way for harder work



29

A Fedora volunteer, Jon Stanley, has reinvigorated our triage program and is actively recruiting for helpers. This work does NOT require experience in open source software development knowledge. This work can be done effectively by just about anyone and makes it easier for experienced developers to spend their time fixing important software bugs. /*click*/

The new Bug Zappers program shows what one or two dedicated volunteers can do when they are empowered by open source and barriers are removed from their way.

`/* fix things more quickly */`

bug triage

revitalized project

1000s of bugs, many are easy to fix

clear the way for harder work



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marketing

messaging guide

feature following

interviews, blogs, press



31

Fedora Marketing produces messages and stories that communicate what Fedora is all about. /*click*/

We have a great volunteer by the name of Jonathan Roberts who started an interview program to let Fedora developers talk about the exciting changes they are working on, in advance of our release. By the time the release is ready, the open source community is primed and excited to receive it!

Another contributor, Rahul Sundaram, who works in Red Hat's Pune office, keeps an eye on much of the press and weblogs that happen around the internet, sending thanks, corrections, and inquiries to allow us to communicate effectively about Fedora.

`/* spread the message */`

marketing

messaging guide

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who does all this?



33

Big pyramidal organization of Red Hat employees? Project Leader directing all these efforts? Oh, no.

The Fedora Project leadership's roles are to know about, talk about, and enable the many free-will contributors.

This presentation hasn't even covered the many thousands of developers of open source technology whose work goes into the Fedora distribution. Fedora, the Linux platform, is aimed at empowering those developers, and the enthusiasts who support them.

We are working to create a culture not of consumption, but of contribution. Consume less, contribute more. We love hearing about people using Fedora, but more importantly we want to encourage people to use Fedora to advance FOSS.

you do



34

So the health of free and open source software depends on people like you.

You've come to this speech and you're obviously interested in what Fedora provides.

A free platform for building virtually anything. Research and analysis tools. Web applications. Unencumbered content.

get an account

as easy as any social site



35

So how do you get involved?

*/*click*/*

It's very simple. Get an account.

A single click process.

<http://fedoraproject.org/join-fedora>

get an account

as easy as any social site



36

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what do you like to do?



37

Maybe you are a system administrator type who wants to help maintain infrastructure. You can extend your skills on world-class equipment with a world-class team.

Maybe you are a designer who wants to develop collateral for display on the web or in marketing materials for the ambassadors. You can do this with open tools at zero cost in a community of collaboration.

Maybe you just want to fix something in Fedora that has always bothered you. You can talk to the developers in the upstream community and the package maintainers in Fedora, code the solution, and coordinate an effort to push it out to an audience of millions of users. Learn how open source's culture of communication and critique produce the world's best code through teamwork.

<http://fedoraproject.org/join-fedora>

do it in Fedora



38

Gather other community members who are interested in the same work, and you now have the power of numbers.

For Fedora 9, our KDE SIG has made Fedora the first leading Linux distribution to provide KDE 4 as a default platform for our KDE installations.

This is just one example of how our community believes in putting work behind the words, to bring truth to our motto of "The Future, First."

Fedora == do it

empower the community to take the reins
no dividing line



39

What truly distinguishes the Fedora community?

*/*click*/*

Our focus is on contributors.

Like other open distributions, we have a primary corporate sponsor – in our case, Red Hat, the world's leading open source solutions company.

But unlike other open distributions, we don't make any distinctions between Red Hat employees and anyone else in the Fedora community.

We all work under the same guidelines. We all share responsibility and the burden of work.

Other distributions and projects reserve “special” parts of the distribution for the corporate members. Although Red Hat employs key contributors, the company simply pays them to do what they'd be doing anyway. And we have volunteers working on every part of Fedora from the inside out.

`/* fanboys != contributors */`

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out of the chaos, innovation

we believe in upstream

we believe in the community

we believe in **YOU**



41

One of the greatest things I ever heard at our recent FUDCon (spell it out) was a young contributor, an intern at Red Hat, who was advocating revamping our central initialization system. His pitch at FUDCon to hold a discussion session went something like this:

*/*click*/*

“My name is Casey Dahlin, and I want to replace Fedora's init system with something new and improved. If you want to try and stop me, I suggest you attend my talk today on init.”

That's how Fedora works – we challenge assumptions and we are never afraid to try new things.

That's why our work is usually coveted (and absorbed) by other projects – we love emphasizing muscle over marketing,

By the way, we chose an init replacement from another distribution – but we're going to actually USE it.

/* “if you want to try and stop me...” */

out of the chaos, innovation

we believe in upstream

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innovation never rests

stable, not steady-state

other options for long-term production

we are upstream for others



43

We release a new distribution every six months. /*click*/

Taking longer means we lose the ability to start pushing newer features as quickly.

Taking less time means we can't polish them as much.

We seed several long-term distributions, including Red Hat Enterprise Linux. This is another reason why Fedora is so important – as the upstream for the leading commercial Linux distribution, we are the crossroads of INNOVATION and RELEVANCE. The skills you develop on Fedora are of incredible value in a professional capacity on the RHEL platform.

For people who only want to worry about systems that are free as in free beer, we are also upstream for the CentOS community distribution, which offers only community support but a long lifecycle.

`/* release every 6 months */`

innovation never rests

stable, not steady-state

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The CentOS community distribution offers only community support but a long lifecycle.

community power

music, art, security...

the newest open source community is still out there, waiting...



45

You can remix your own distribution with tools found in Fedora.

*/*click*/*

Create an open source platform that demonstrates how the new free culture encourages collaboration and reuse to empower everyone from business owners to schoolteachers.

Provide a free software electronics laboratory so students can interactively design and test components and assemblies.

Provide a secure and full-featured Linux system you can carry on a USB pen drive to use on virtually any computer, creating and building persistent data as you go just like a laptop.

By the way – all of these ideas already exist – your imagination is the only limit for the next remix of Fedora.

`/* spin your own */`

community power

music, art, security...

the newest open source community is still out there, waiting...



46

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the world comes to us

open standards

open governance

open hands



47

In the 1980's and early 1990's, open source was a fringe movement.

In the 21st century, it's the defining way to make software. It's a mandatory part of any company's strategic planning, and it's what sets apart agile, forward-thinking, cost-conscious, and customer-savvy businesses from all the rest.

*/*click*/*

Young people in school now don't find openness and transparency just an interesting idea – in the Internet age, they are EXPECTATIONS. Openness in standards, information exchange, government, and business relationships. The move to openness and transparency is inevitable.

Fedora is an expression of the power and flexibility of these simple ideals of openness, transparency, freedom, and community.

/* freedom is a human need */

the world comes to us

open standards

open governance

open hands



48

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THANK YOU.

