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Feb 5th, 9:00 AM - 11:00 AM

Even Internet Computers Want to be Free: Using Linux and Open Source Software on Library Public Workstations

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Even internet computers want to be free Using Linux and open source software on library public workstations



Matthew "Buzzy" Nielsen

Assistant Director, North Bend Public Library



Sean Park

Network Administrator, Coos County Library Service District



What patrons usually see



Microsoft Windows
Operating system



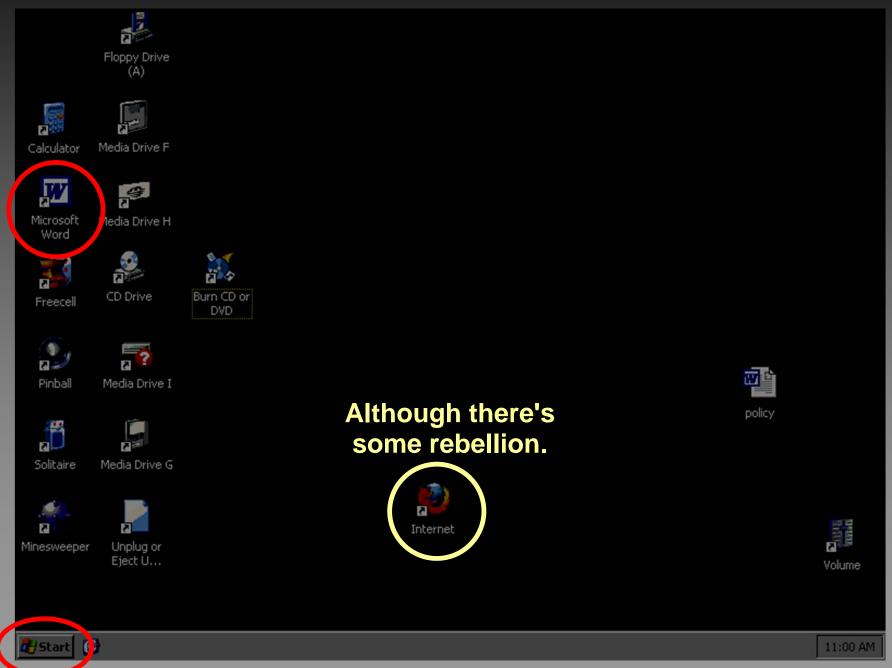
Microsoft
Internet Explorer
Web browsing







Even in some Coos County libraries



Dependencies



Microsoft Windows
Operating system



Microsoft
Internet Explorer
Web browsing







What Coos County patrons see





Mozilla Firefox
Web browsing

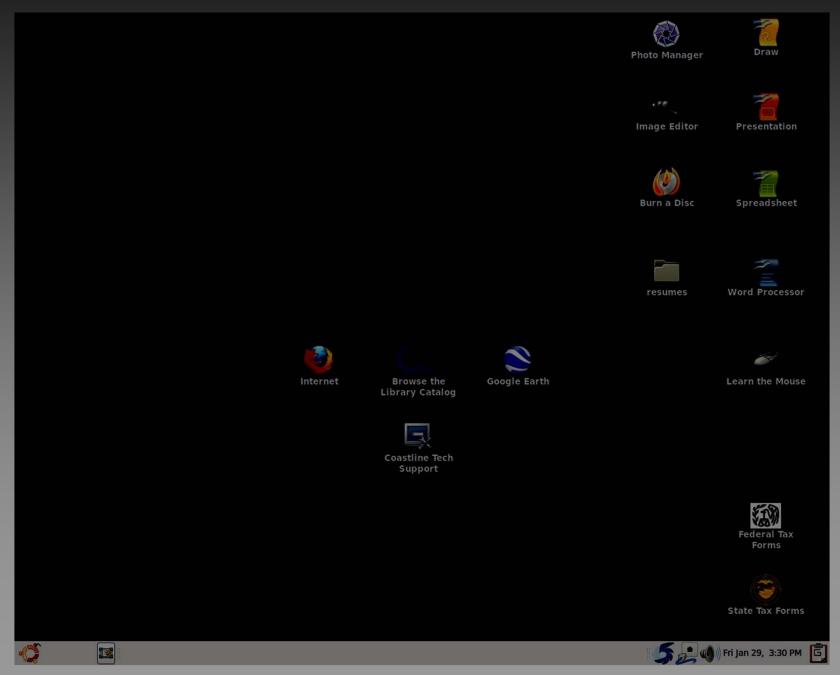




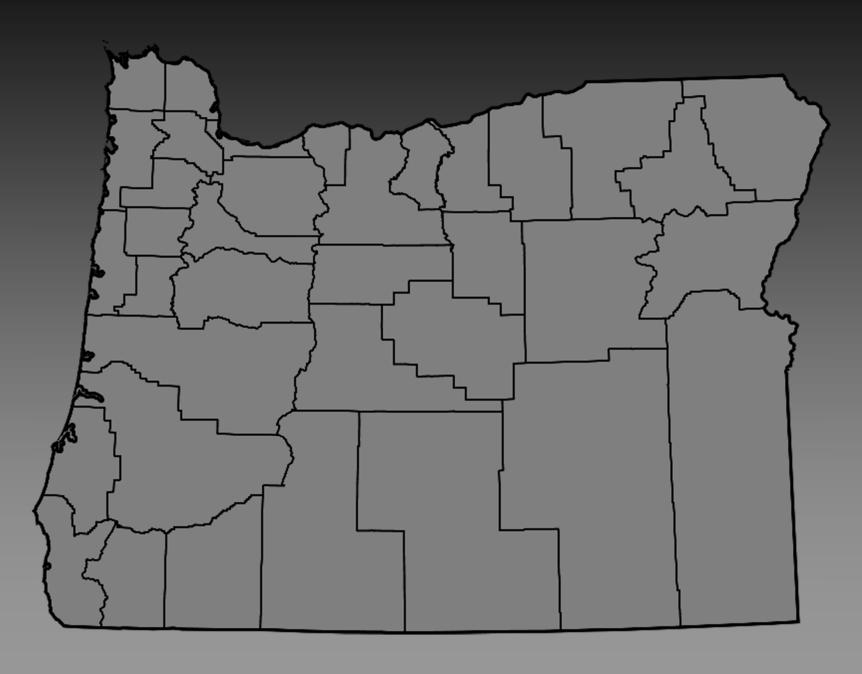


OpenOffice Impress
Presentations

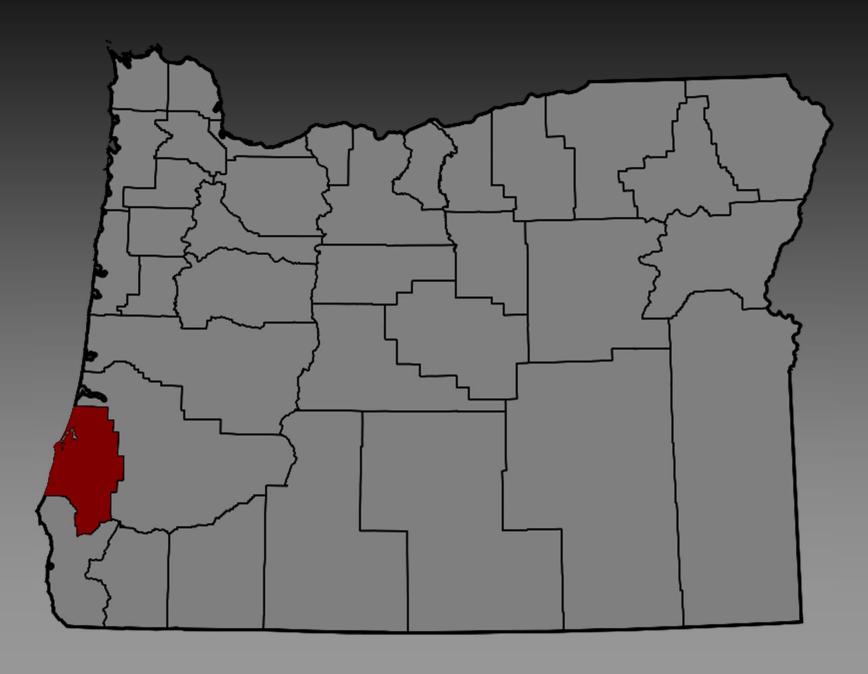
What Coos County patrons see



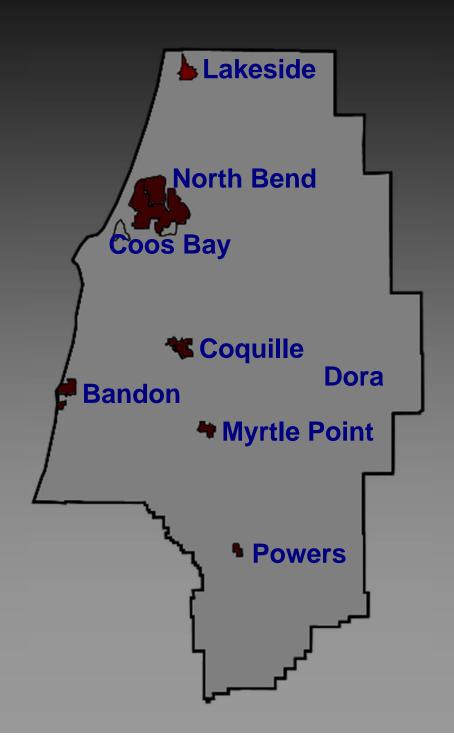
An interlude: About CCLSD



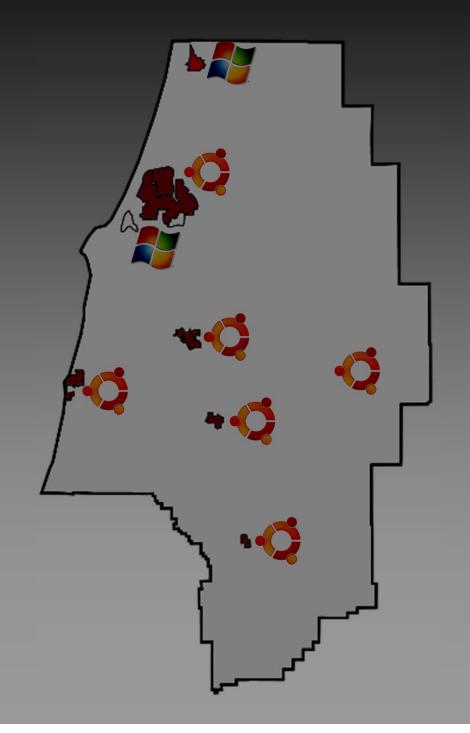
An interlude: About CCLSD



8 communities



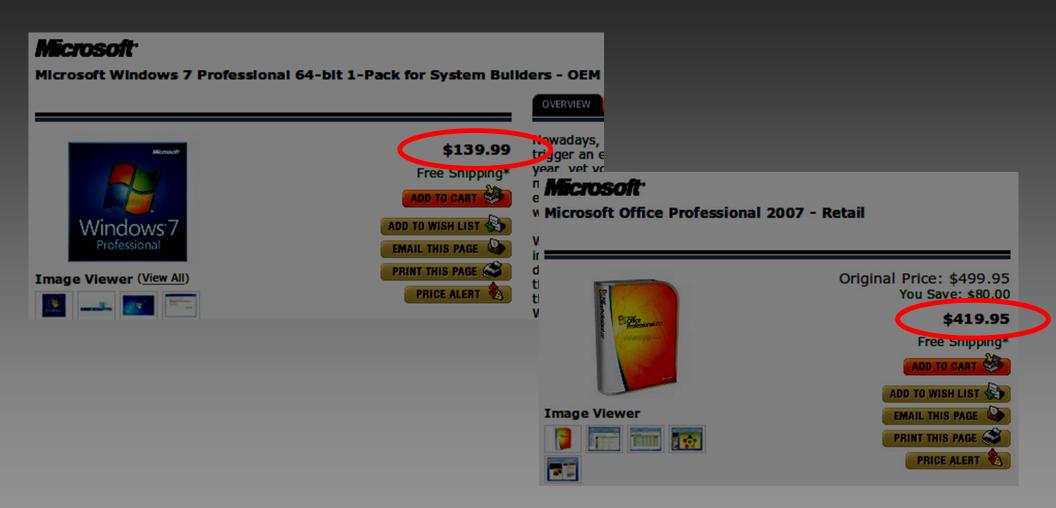
Different strategies



Why'd we switch? (In no particular order)

Reason #1 Cost

The Windows tax



Even buying through OETC will set you back \$100 per license.

(Don't get smug, Apple fans - There's a Mac tax, too.)

The power of free

Ubuntu 9.10 is here

Free operating system for your desktop or laptop

- Faster, smoother, more beautiful...
 New features, fixes and applications designed around you
- Developing at speed...
 Fun tools make it easy to write and deploy apps for Ubuntu
- ...and introducing your personal cloud
 Store and share files and contacts in a couple of clicks with Ubuntu One

Download Ubuntu

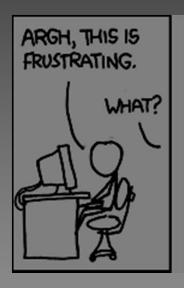
Take the tour



Why'd we switch?

Reason #2
Security & continuity

Sad but true









Need more stuff on security

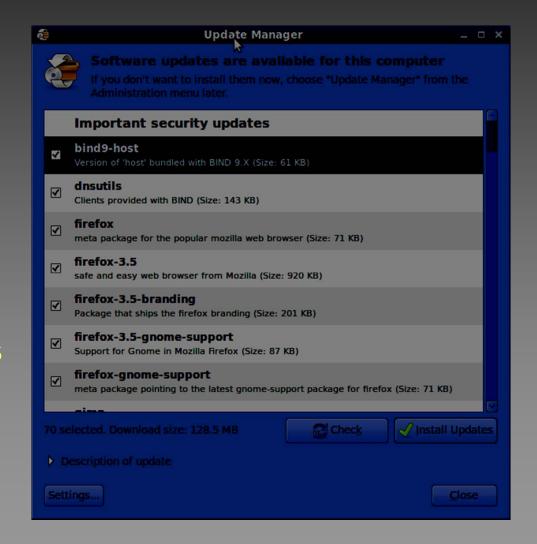
User's settings are easier to maintain.

Settings are easier to change.

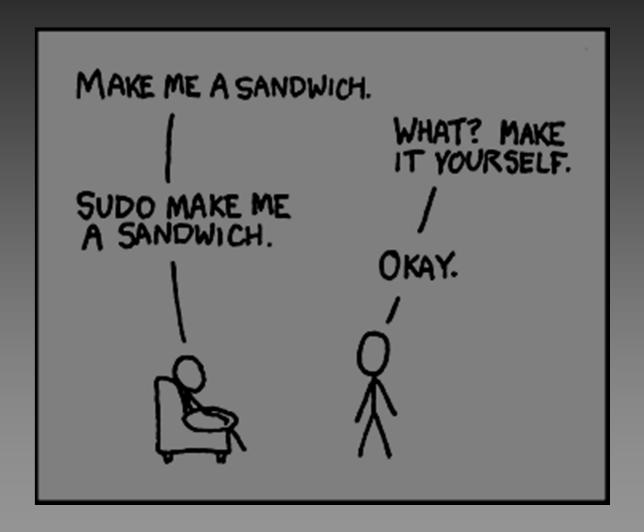
No 3rd party anti-virus is required.

Fewer administrative privileges given to users by default.

Security updates are made and pushed out quickly.



And because we love xkcd so much



Why'd we switch?

Reason #3
Efficiency

Breathe life into old hardware



The specs:

Processor: 800 Mhz Pentium III

RAM: 512 MB

HDD: 20 GB

Circa: 2000

At their death, they ran Ubuntu 9.04

Or make new hardware wickedly fast

The specs:

Processor: 2.6 Ghz quad core

AMD

Phenom

RAM: 8 GB

HDD: 80 GB

Circa: 2009



Why'd we switch?

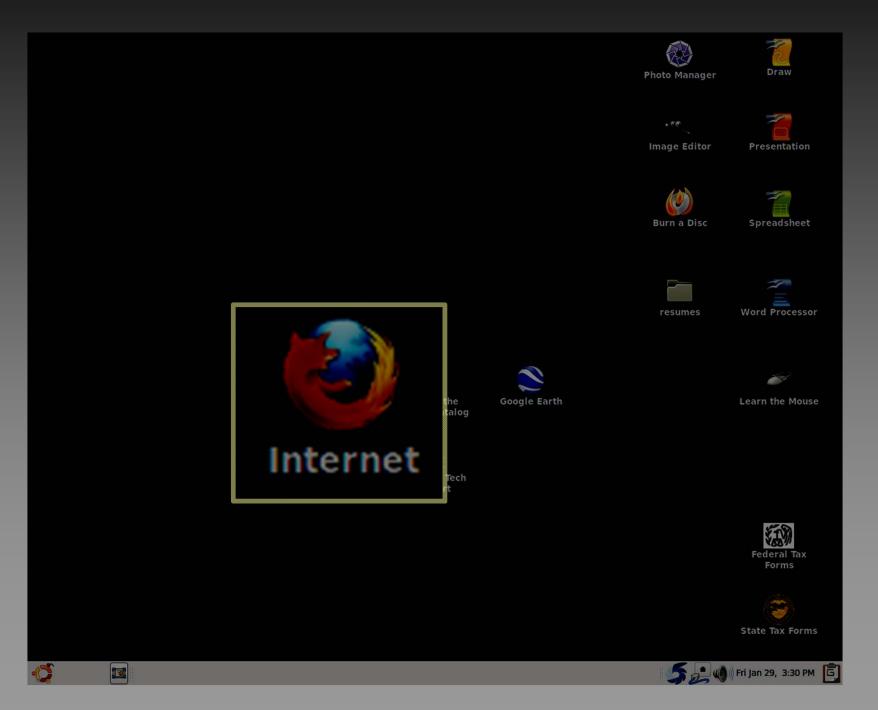
Reason #4
Philosophy

Free software is a matter of liberty, not price. To understand the concept, you should think of 'free' as in 'free speech,' not as in 'free beer.',

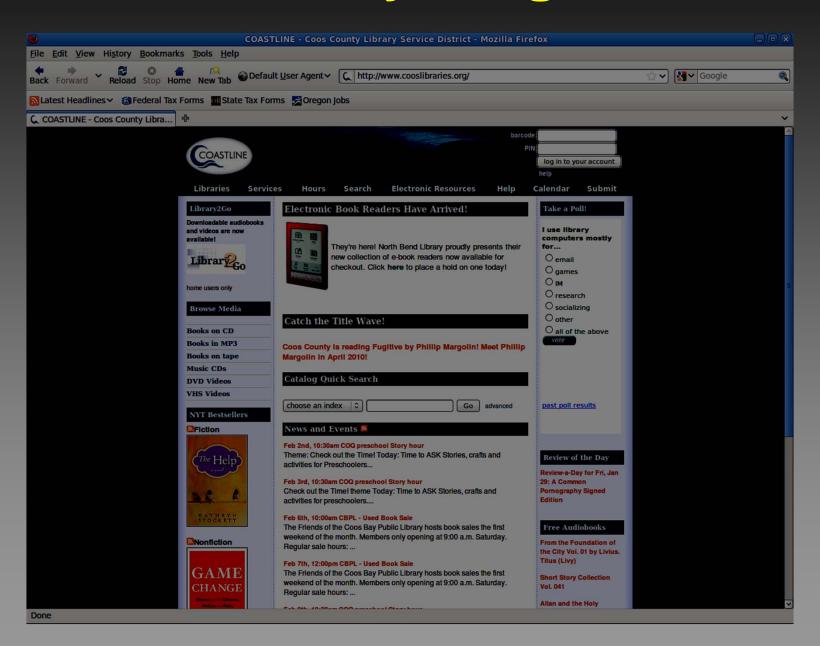
Why'd we switch?

Reason #5
Features

So what can they do?

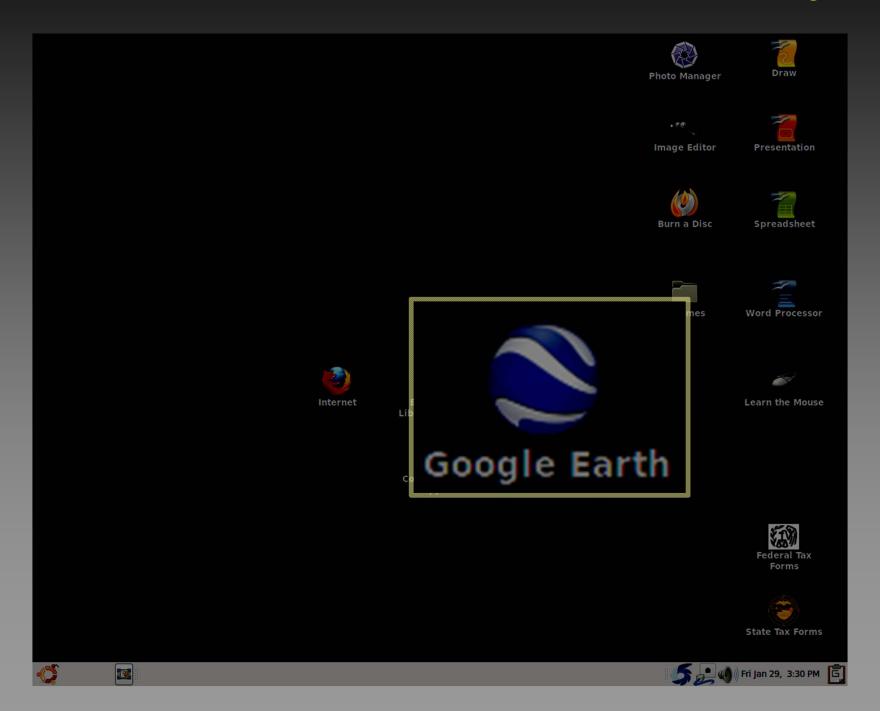


Everything IE can do . . .

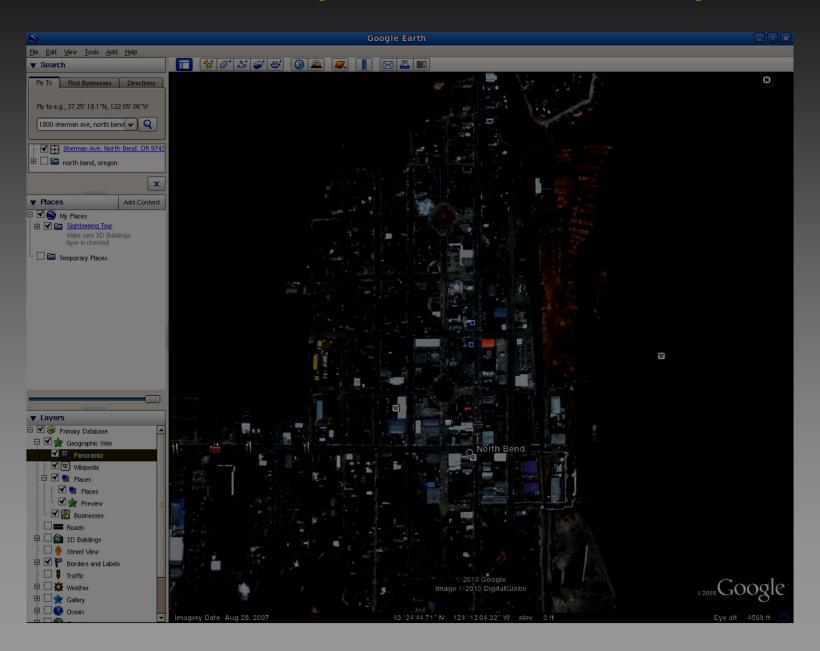




So what can they do?

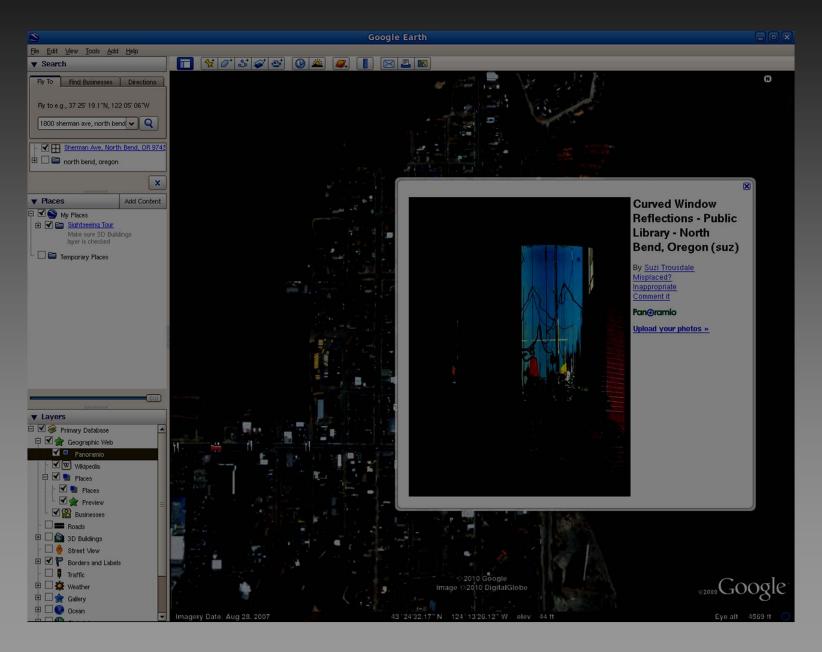


Hey, I can see my house!



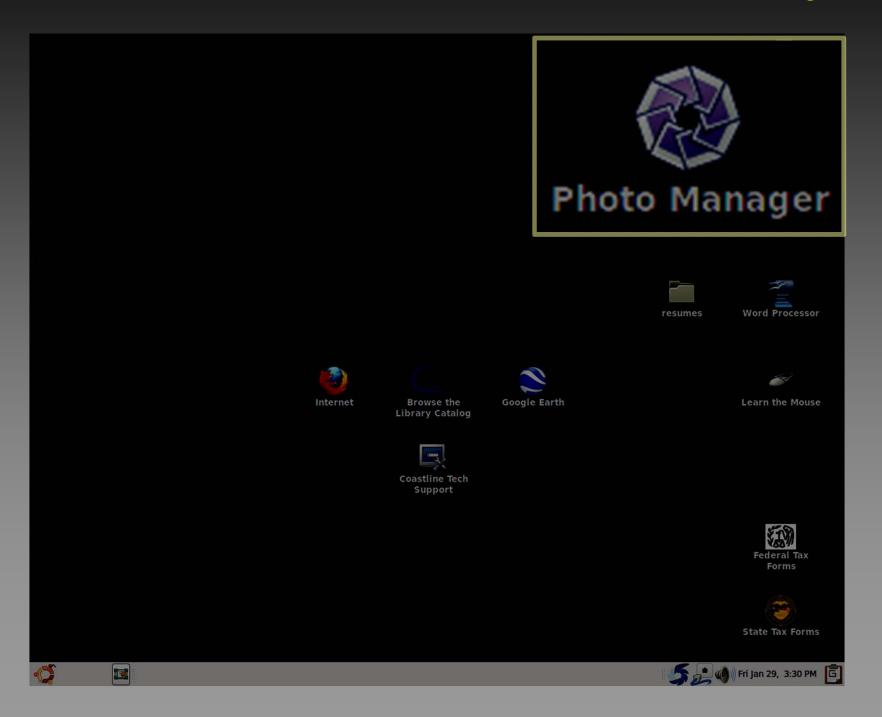


And my library

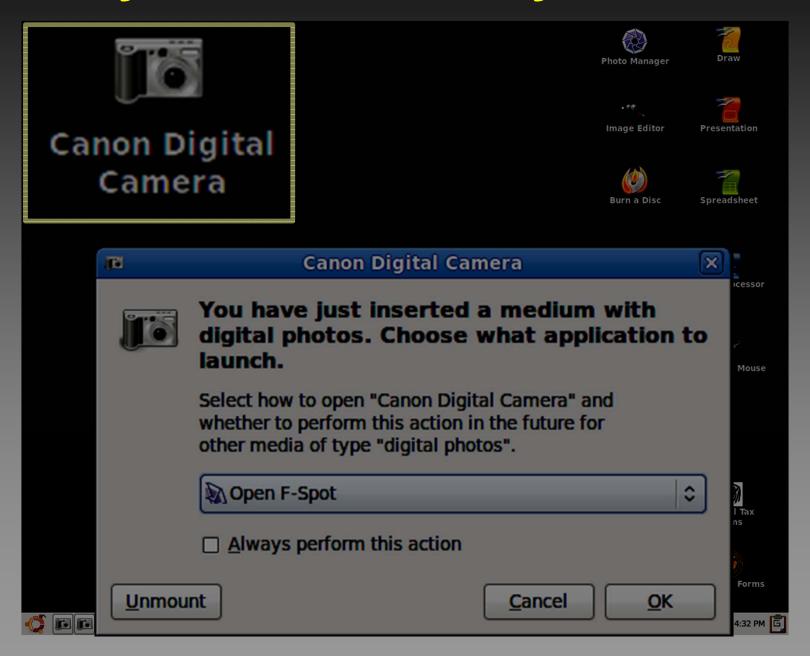




So what can they do?

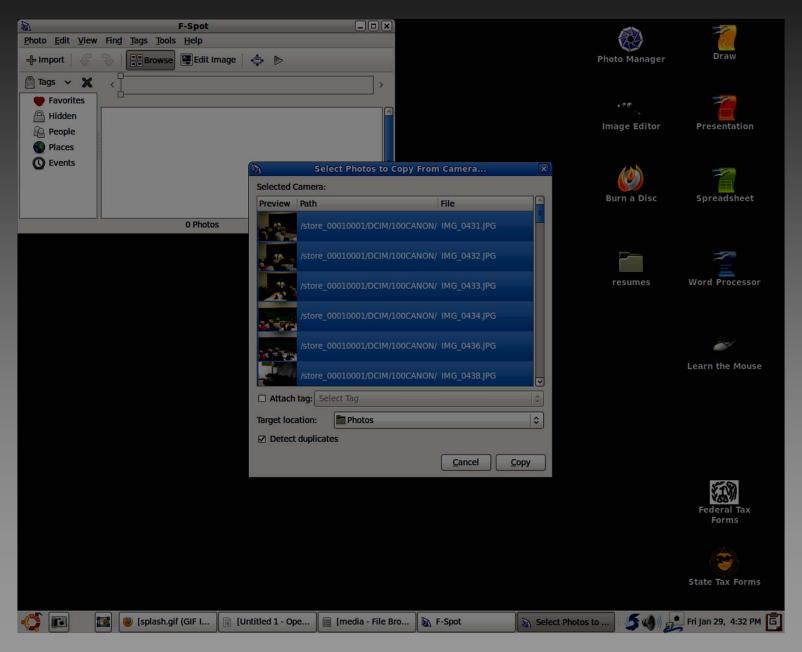


Give us your cameras, your SD cards



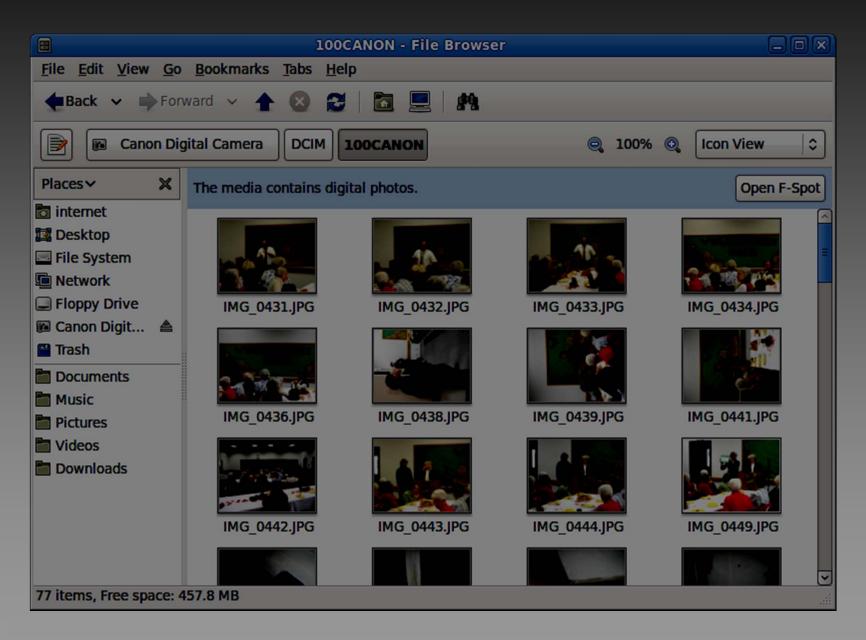


Manage your photos with F-Spot



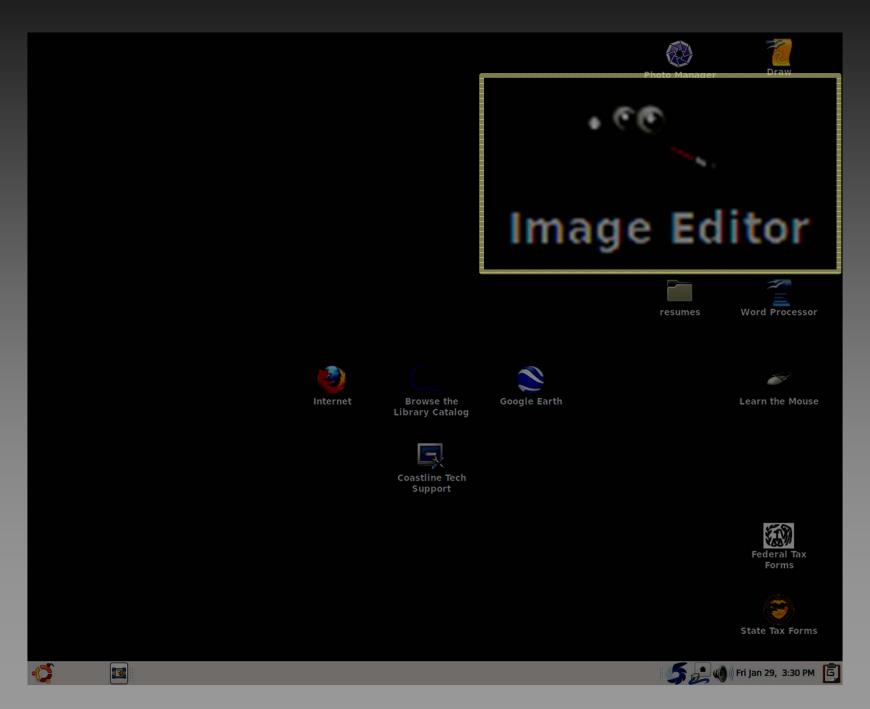


Or just browse them

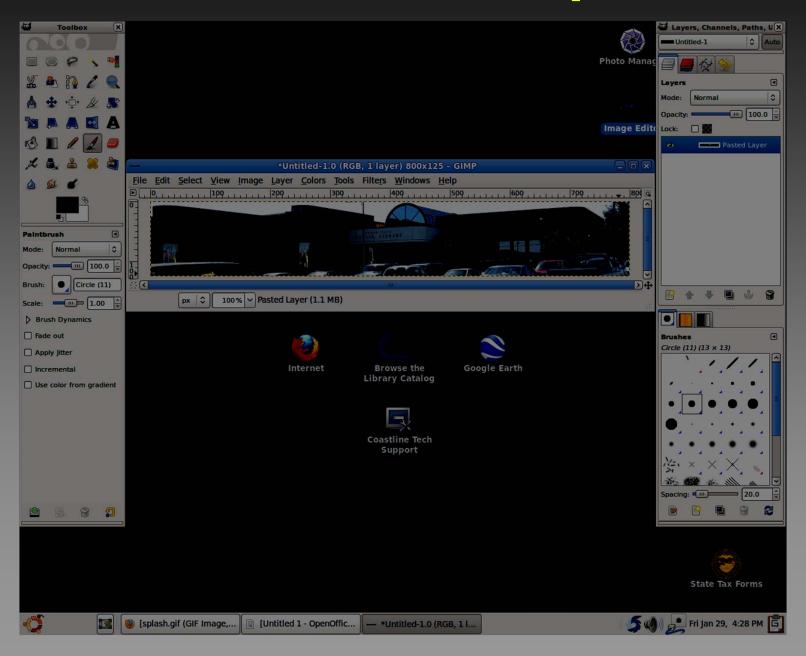




So what can they do?

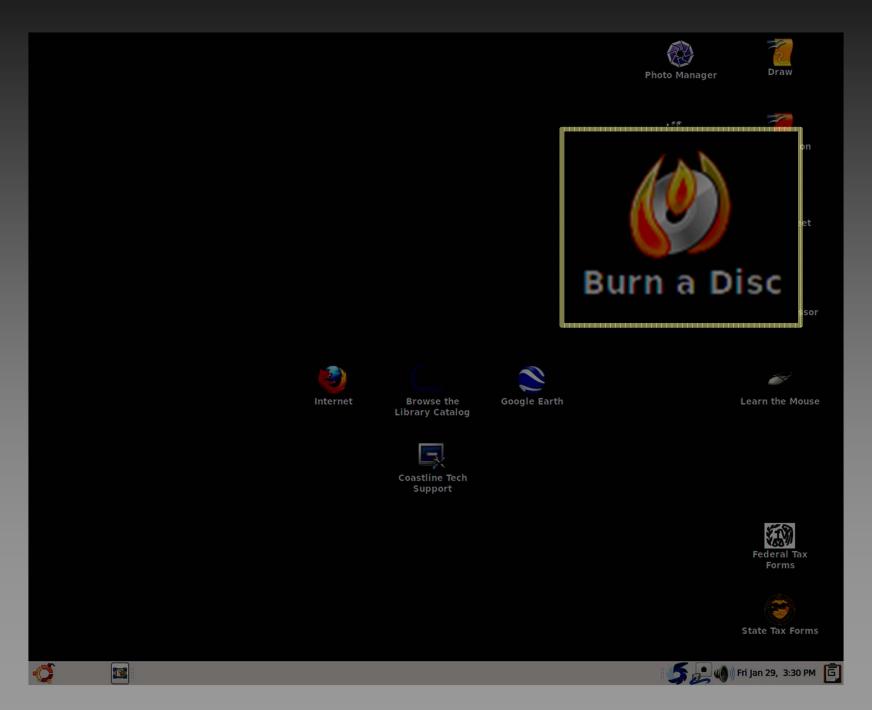


Like Photoshop, but better!

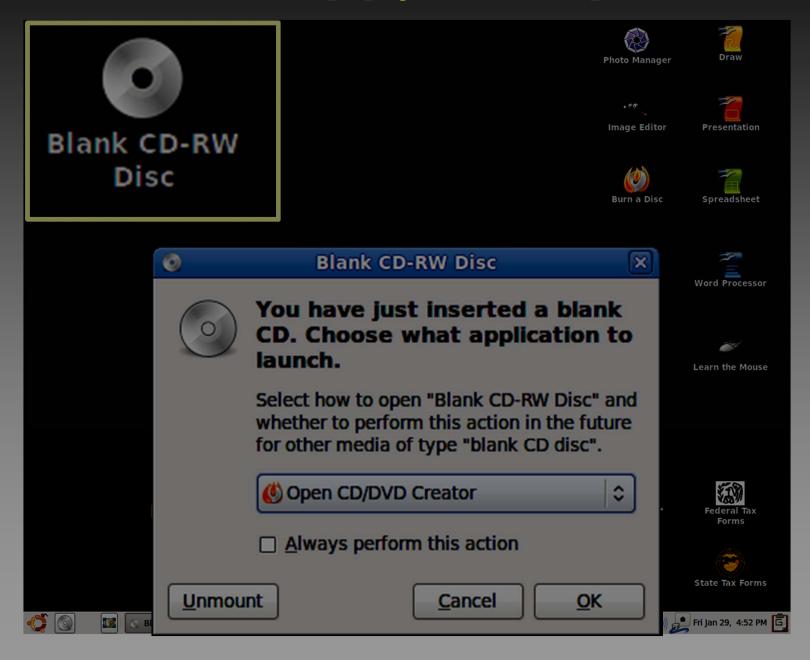




So what can they do?

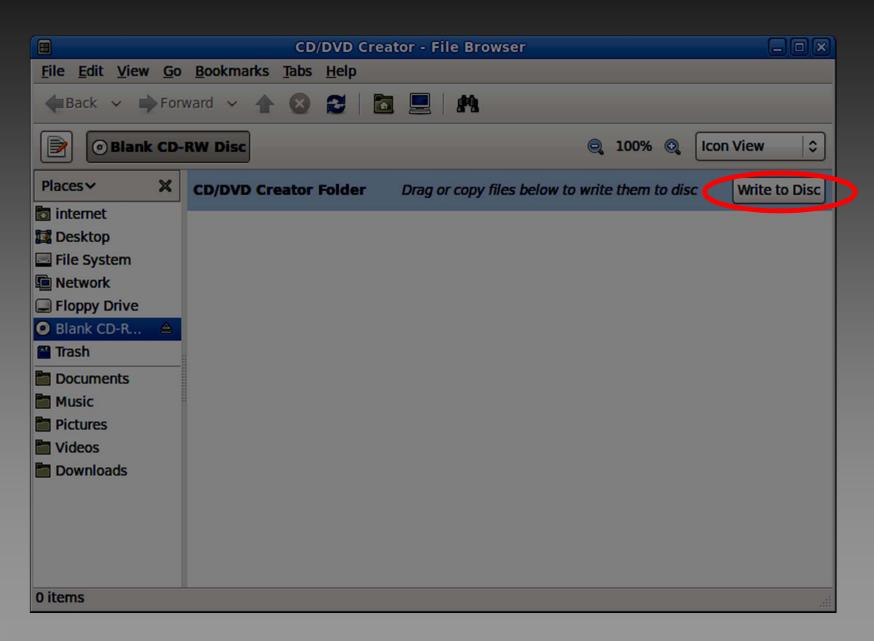


Like Clippy, except it's useful



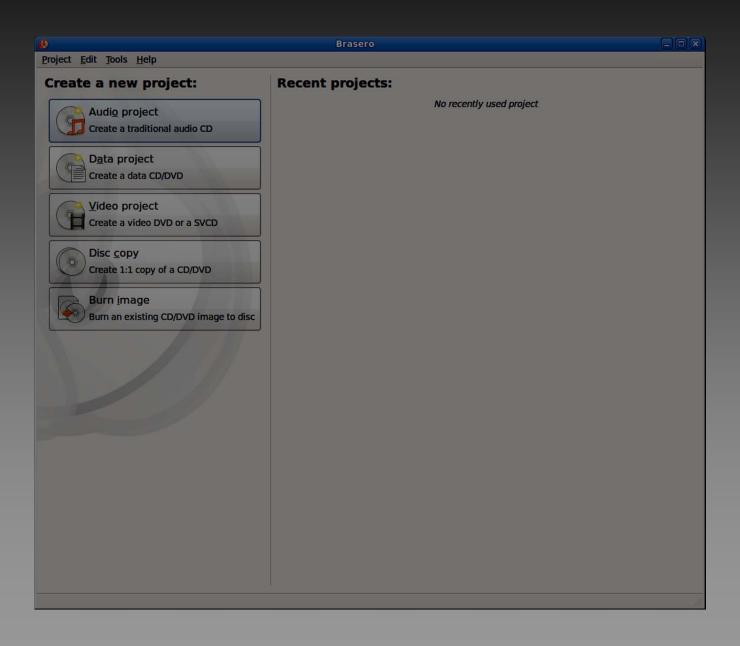


Drag, drop, write



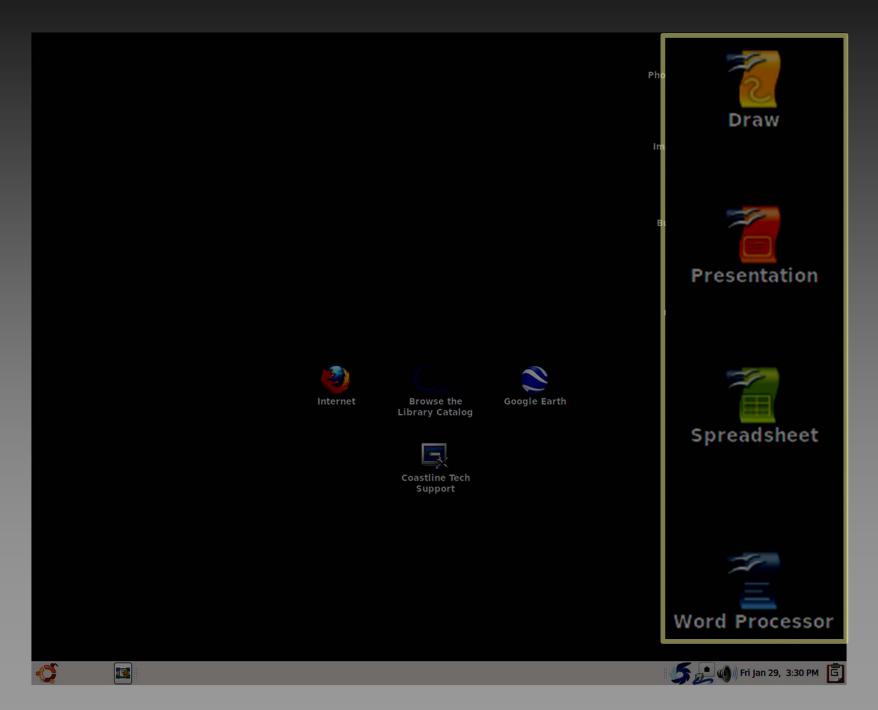


Or make music or video discs

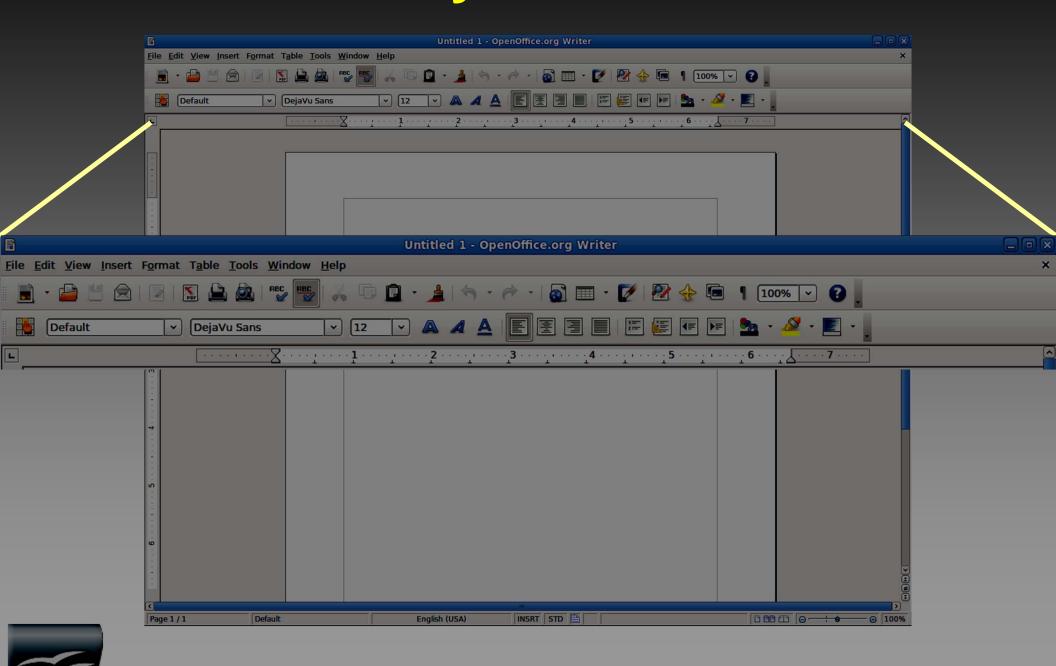




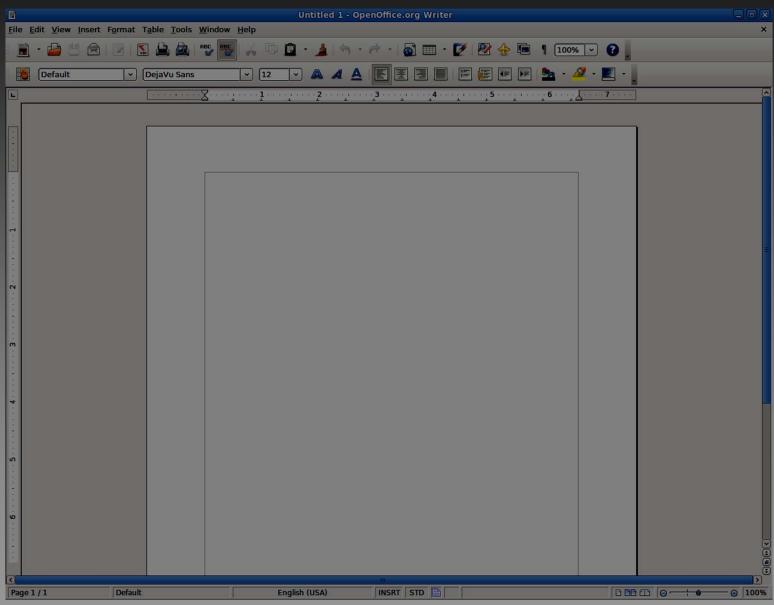
So what can they do?



If you can use Word . . .

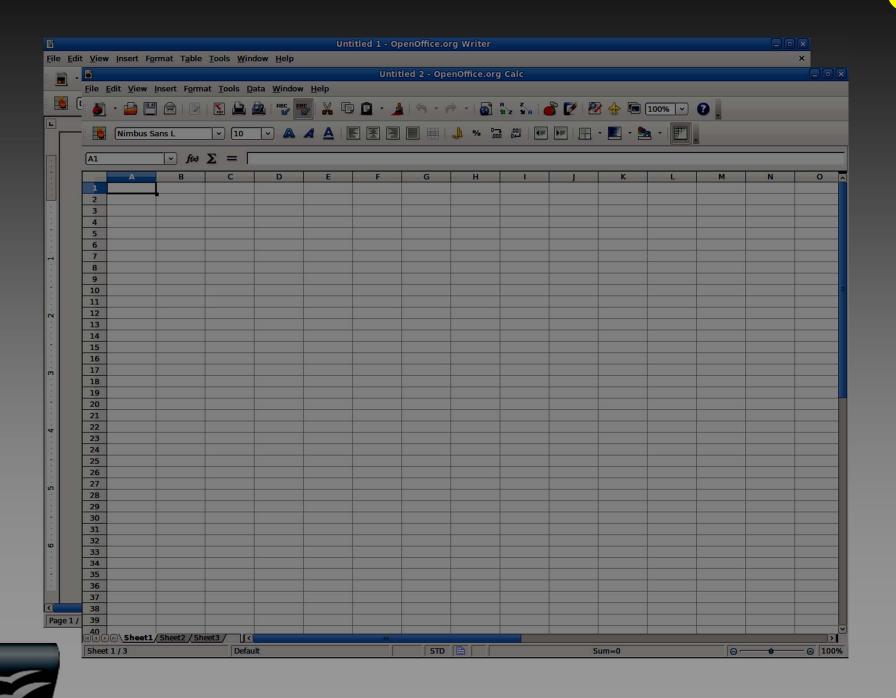


Writer

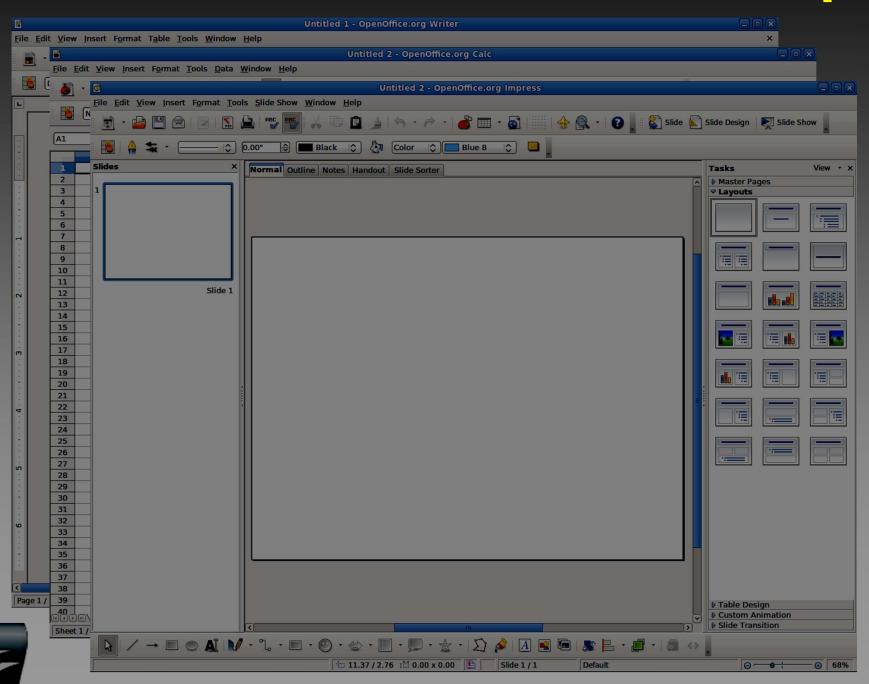




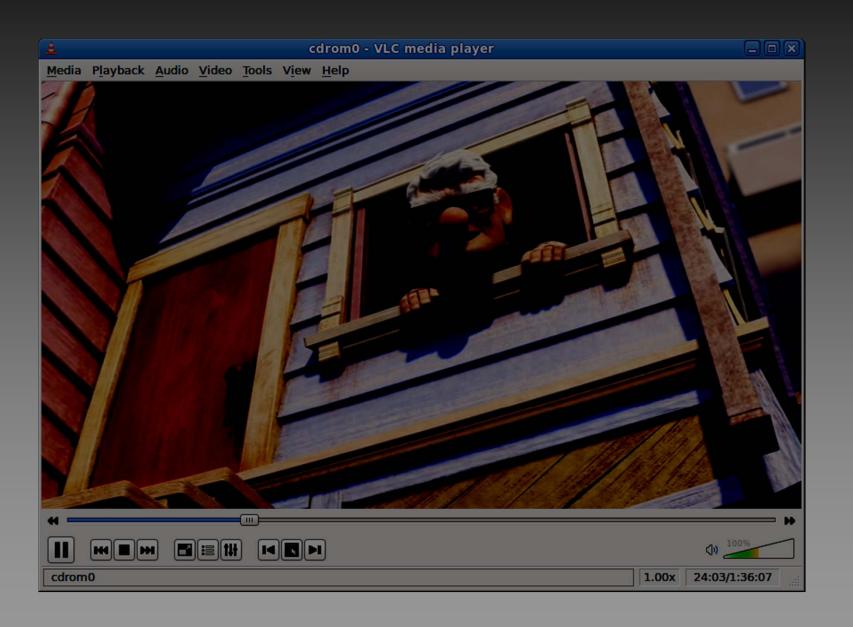
Calc

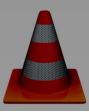


Impress

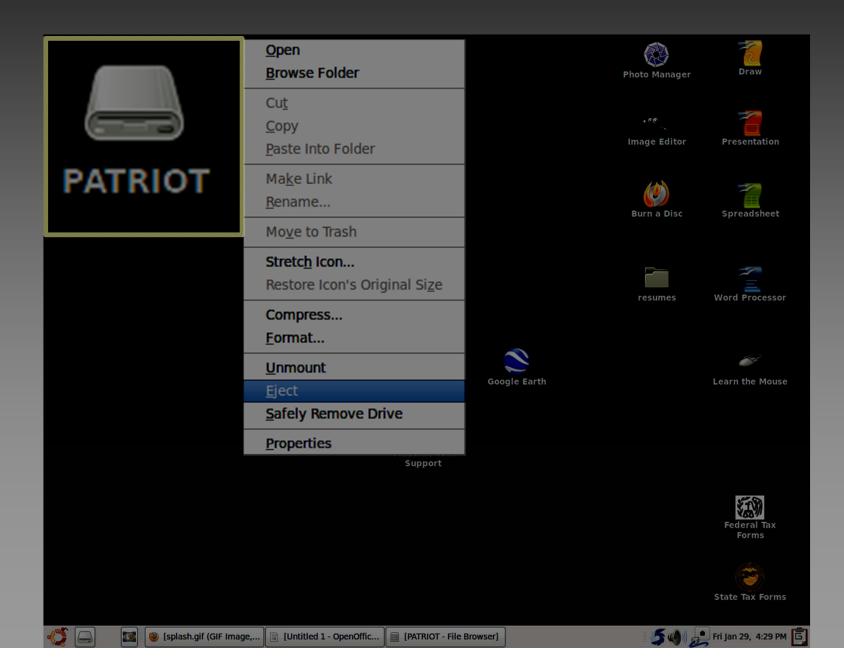


We can even do multimedia

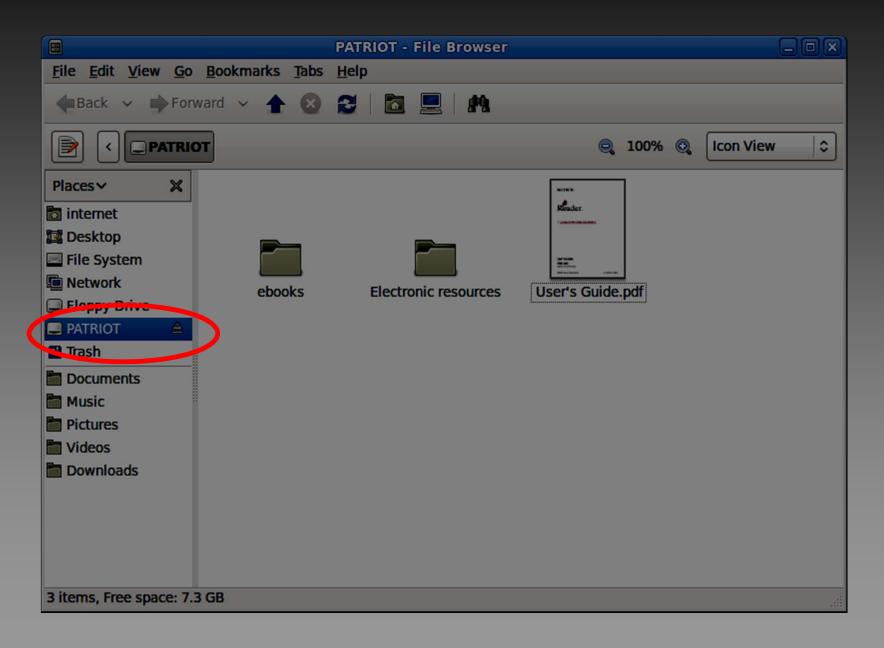




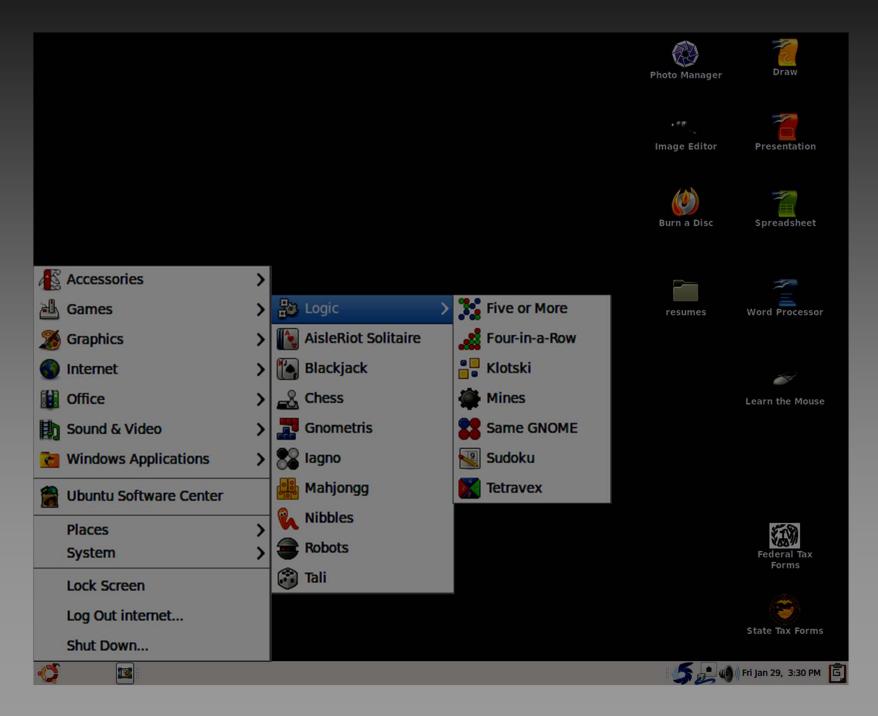
Of the removeable kind, too



Browse files easily



And a few more things



The staff's favorite part?



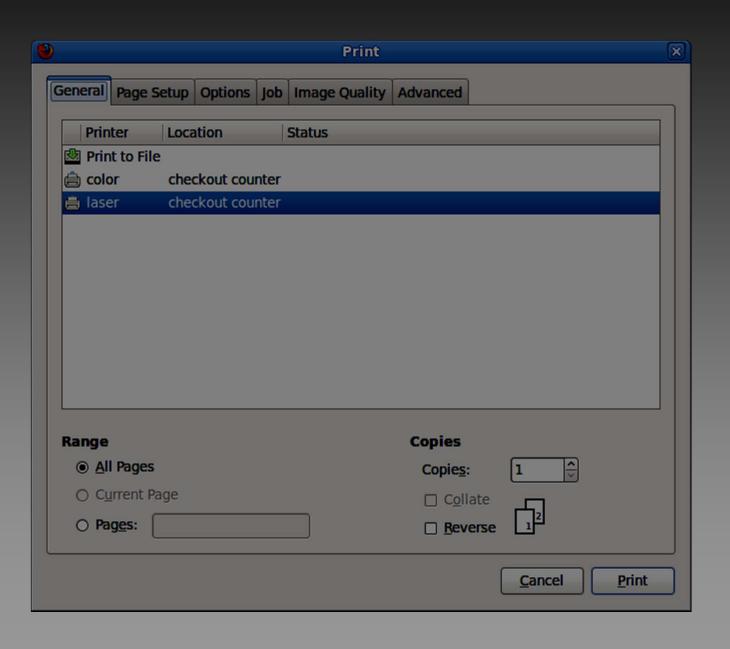
Automatic shutdown!

But it wasn't all simple and rosy.

Obstacles we faced

Obstacle #1
Printing

Simple on the patron end . . .



... but hardware can get in the way



Say hello to the hellspawn printer.

Main issue:

Print jobs taking extremely long to print, sometimes get dropped.

Obstacles we faced

Obstacle #2
PDFs

An unfortunate necessity



Main issue:

Completing, saving and printing fillable forms.

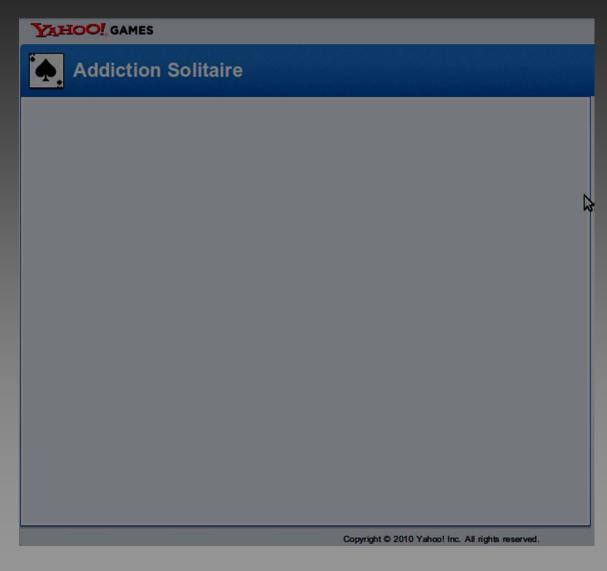
But no longer

Thumbnails > X state of the st	E 1040 Department of the Treasury—Internal Revenue Service U.S. Individual Income Tax Return 2009 (99) IRS Use Only—Do not write or staple in this space.				
	Label	For the year Jan. 1–Dec. 31, 2009, or other tax year beging Your first name and initial	Last name	, 20 OMB No. 1545-0074 Your social security number	
1	(See instructions on page 14.)	North Bend If a joint return, spouse's first name and initial	Public Library Last name	Spouse's social security number	
The state of the s	Use the IRS label. H Otherwise, please print R	Home address (number and street). If you have a	A Control of the Cont	Apt. no. You must enter your SSN(s) above.	
100 100	or type.	City, town or post office, state, and ZIP code. If you		Checking a box below will not change your tax or refund.	
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Your first nam	ne and initial		Last name		
North Bend			Public Library		
If a joint return	n, spouse's f	irst name and initial	Last name		
Home addres	s (number ar	nd street). If you have a f	P.O. box, see page 14	l.	Apt. no
			u have a foreign add	ress, see page 14.	

Obstacles we faced

Obstacle #3
Flash plugin

The bane of our existence



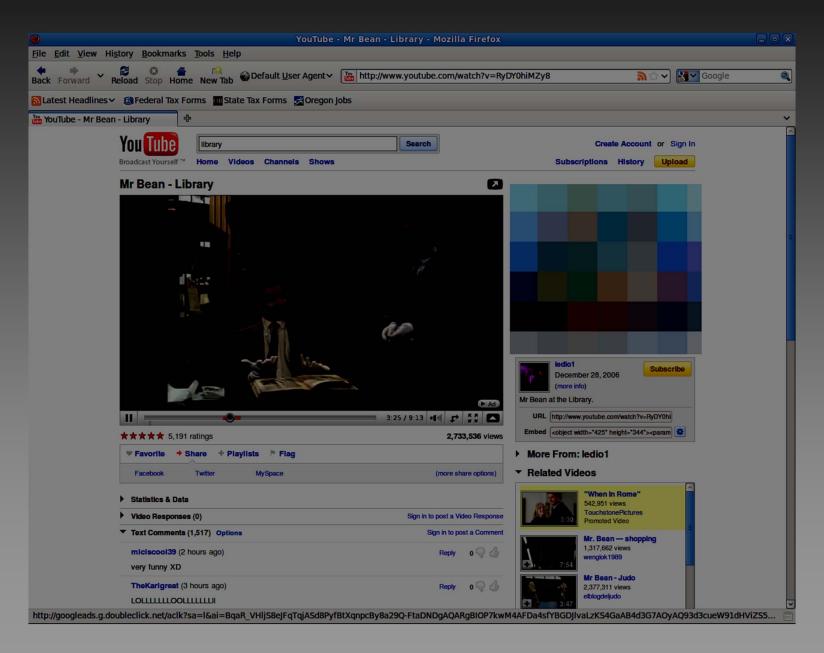


Main issue:

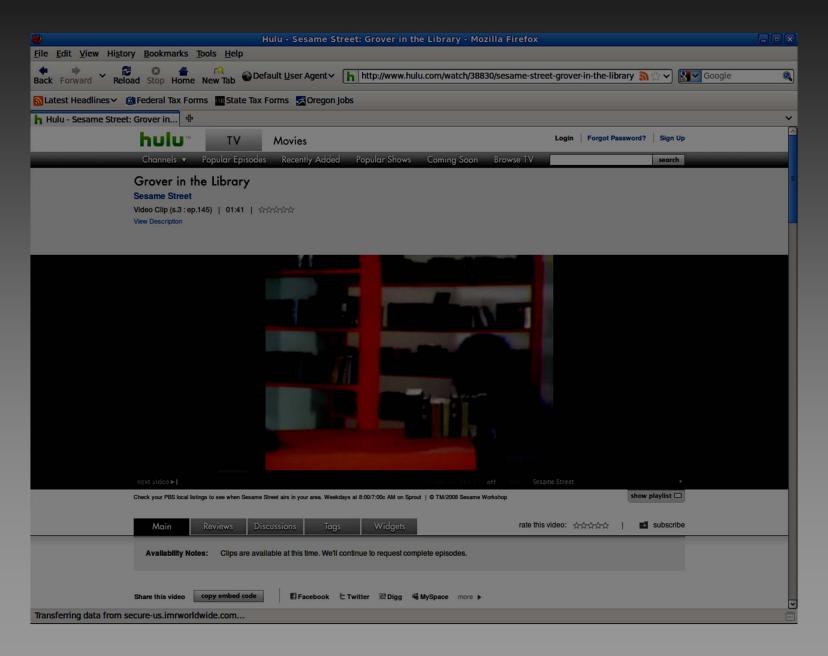
Some Flash animations/applications unplayable.

Okay, admittedly this is a screenshot from Chromium, not Firefox.

But we can handle most things



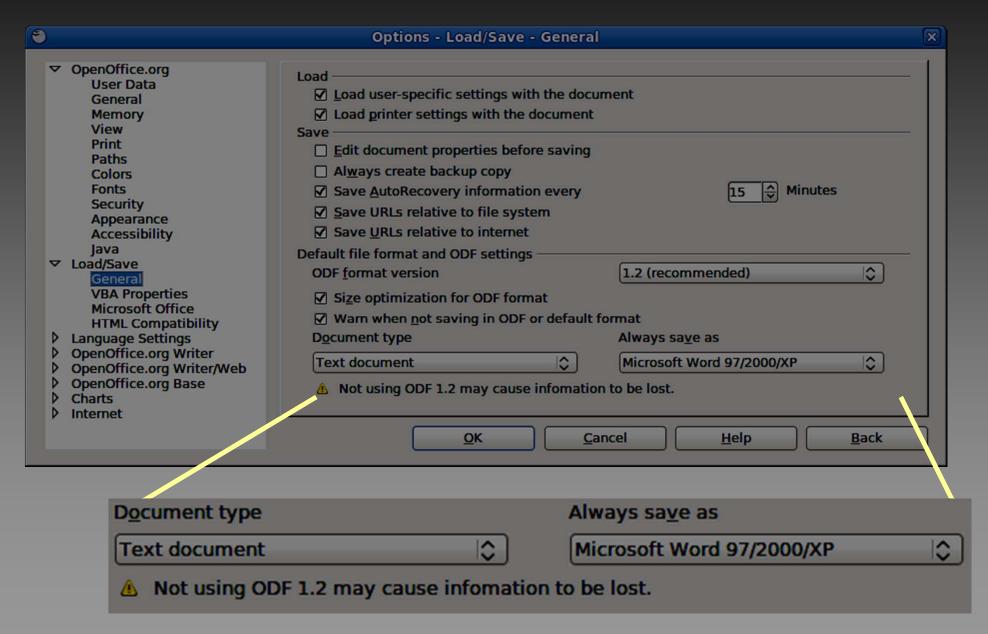
But we can handle most things



Obstacles we faced

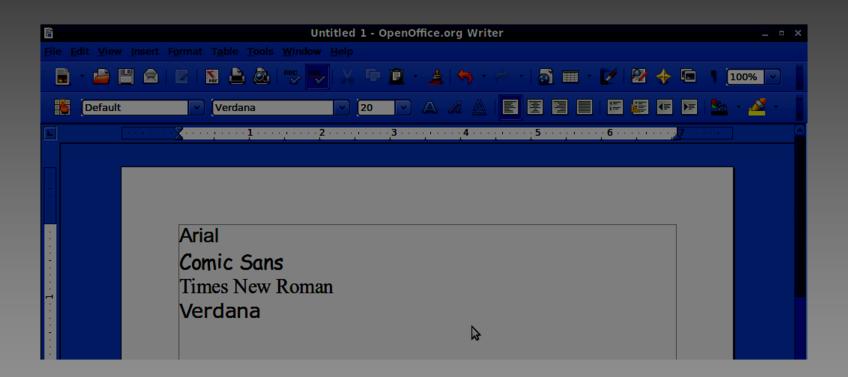
Obstacle #4
Compatibility

Formatting



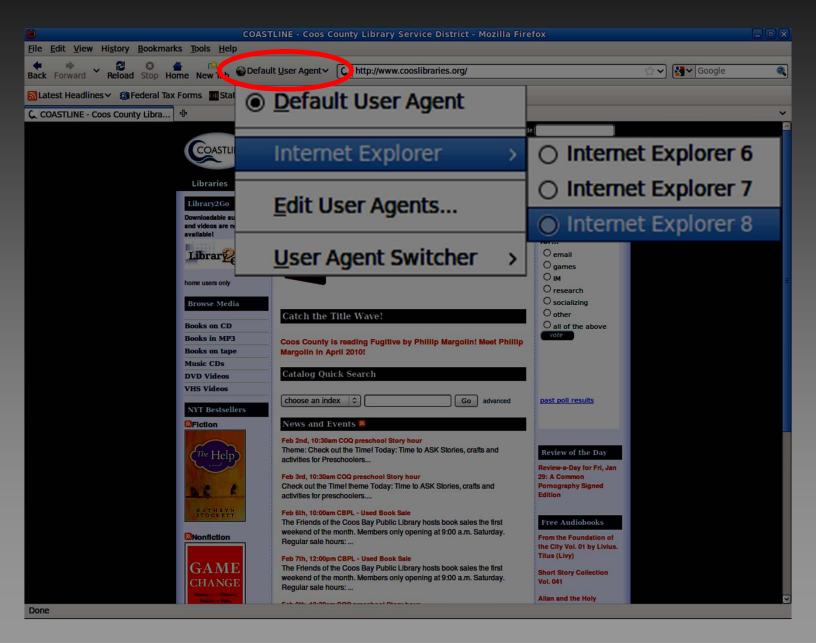
Compatibility fix:
Defaulting to save in Microsoft formats.

Formatting



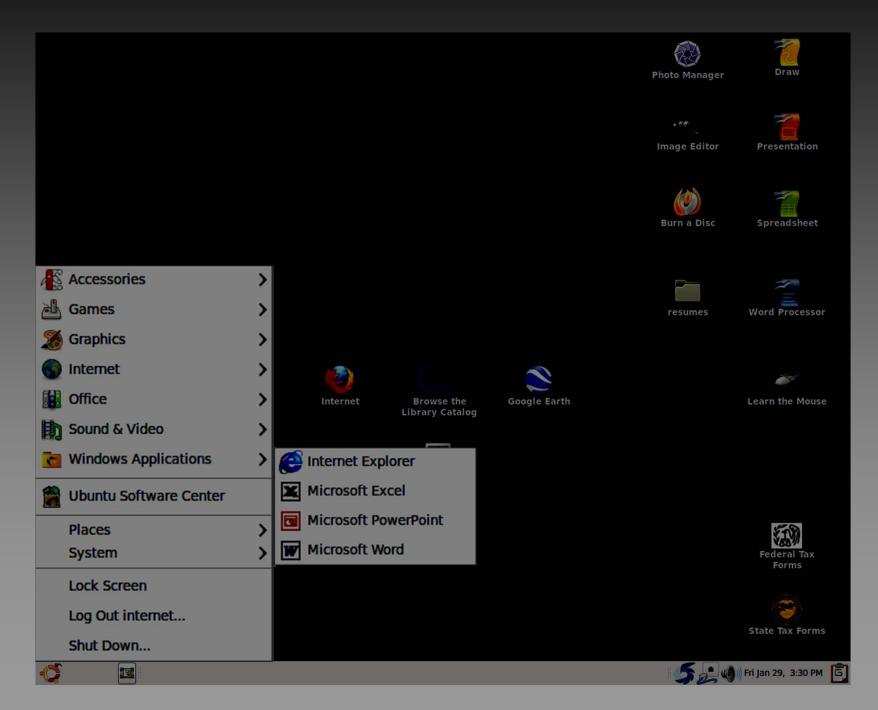
Compatibility fix: Install commonly-used licensed fonts.

Firefox can play pretend



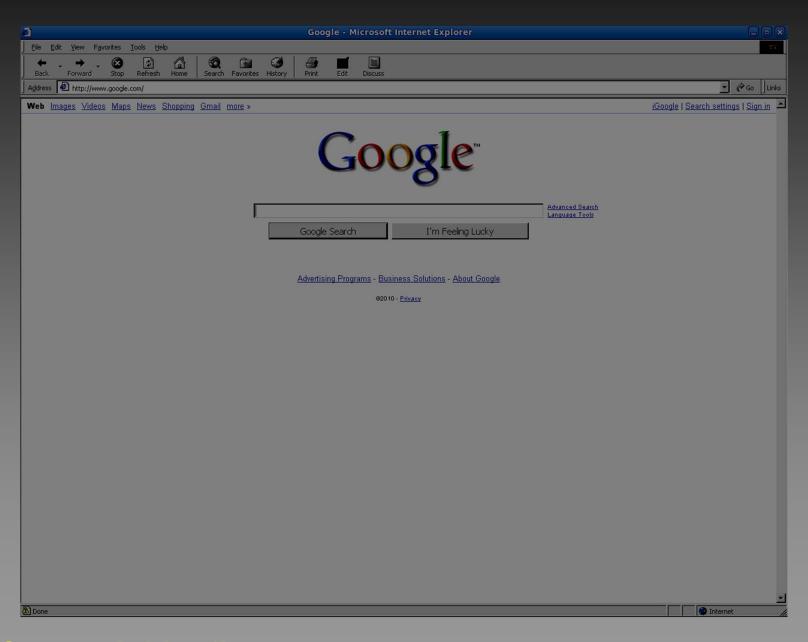
Compatibility fix: Installing User Agent Switcher plugin in Firefox.

A glass of Wine a day





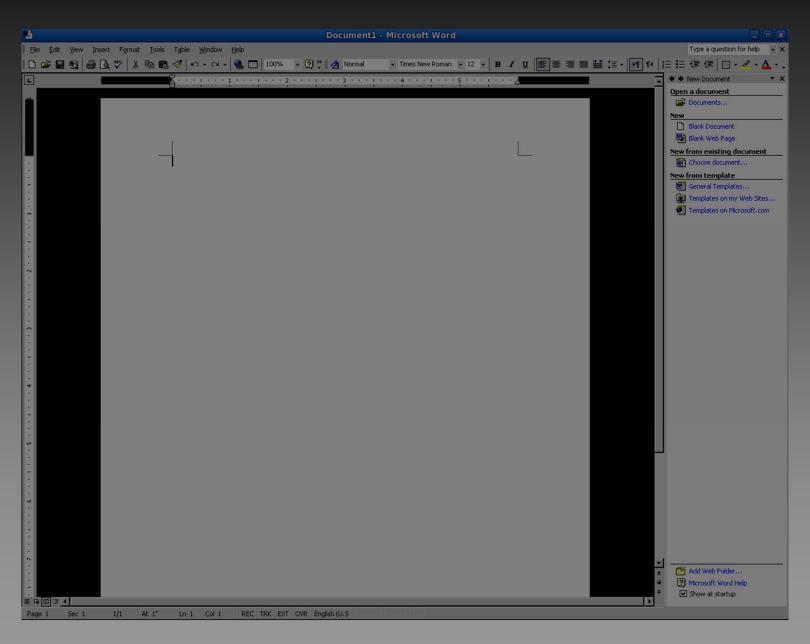
A bit of freedom hating: IE6





Compatibility fix: Installing some Windows applications through Wine.

More freedom hating: MS Word





Compatibility fix: Installing some Windows applications through Wine.

We eat our own dog food

DansGuardian Internet filtering -> Nagios **Network monitoring** -> Pidgin Instant messaging → Q qmail **Email** → WebCalendar **Online calendar** WordPress Content management

Our recommendations

Recommendation #1:

Make sure that you have an open-minded staff.

Recommendation #2:

Try (or at least research) before you buy.

Recommendation #3:

Help your patrons by making things look familiar.

Recommendation #4:

Accept that trial & error is a given.

Recommendation #5:

Don't upgrade your particular flavor of Linux right away. If it ain't broke...

Thanks!

This presentation was made using open source software.







Mozilla Firefox
Web browser



GIMP Image editor



Questions?

For further information



View this presentation on slideshare:

http://www.slideshare.net/nbpl/linux-desktops



Or email us:

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