

Introduction to the GNOME Shell

Owen Taylor
Gran Canaria Desktop Summit
5 July 2009



Juan José Sánchez

Hackfest

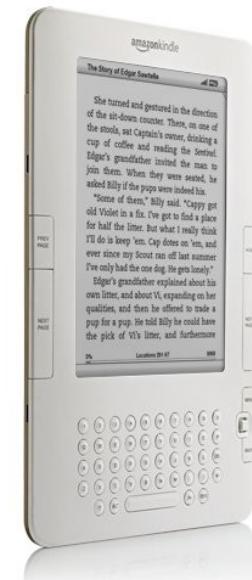
Applets /
Desktop Widgets

Themes /
Animation

File Management

Application Launching /
Window Management







Computer



otaylor's Home



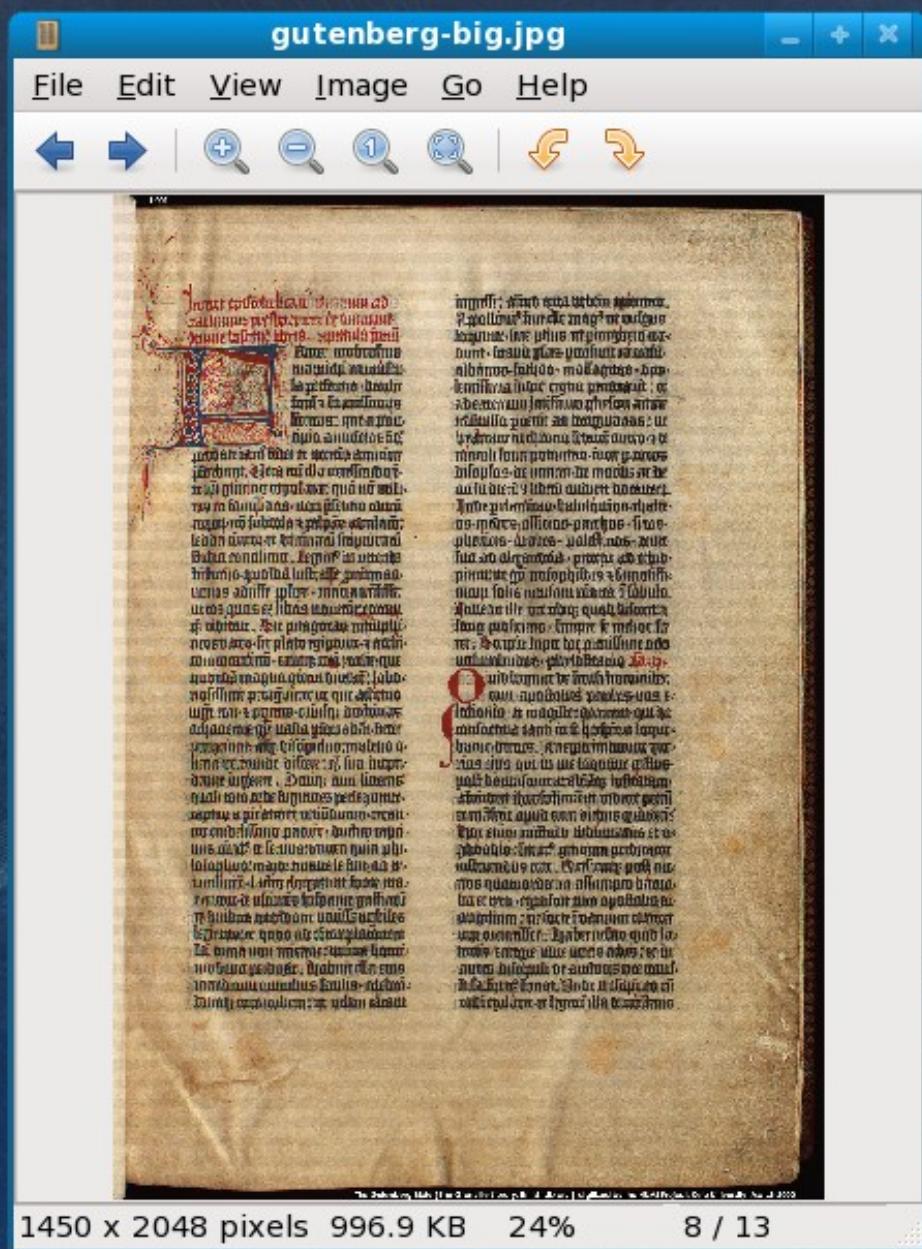
Stuff



Team



Trash



Talk-Pictures

Places Help



gdiskfree.png



gill-intro.png

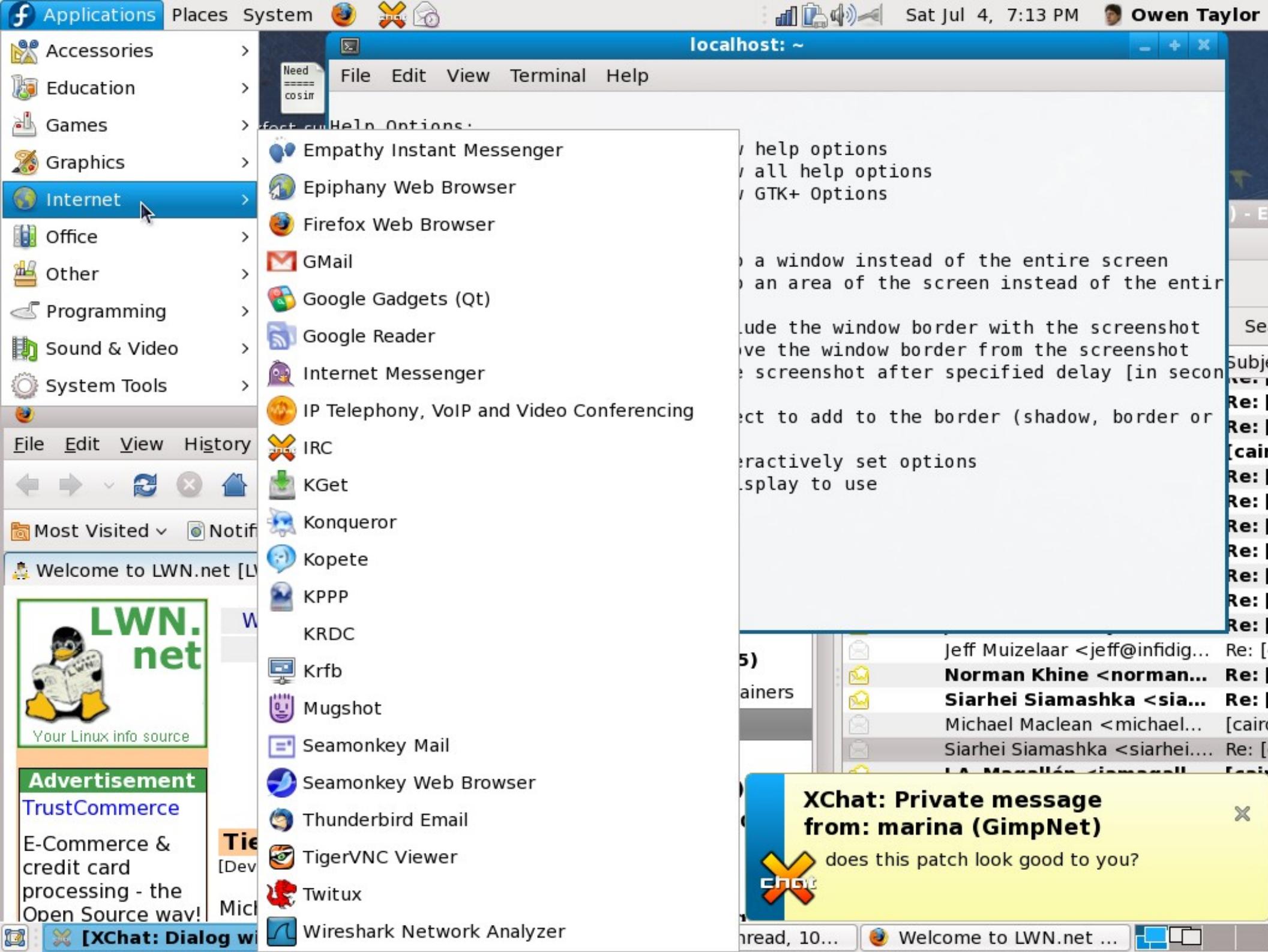


gutenberg-big.jpg



international-zeitung.png

"gutenberg-big.jpg" selected (996.9 KB)





Sat Jul 4, 7:20 PM



Computer

hackfes



Applications

Places

System

Applications

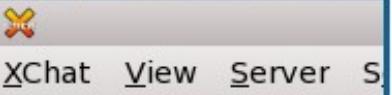
Places

System

Applications

Places

System



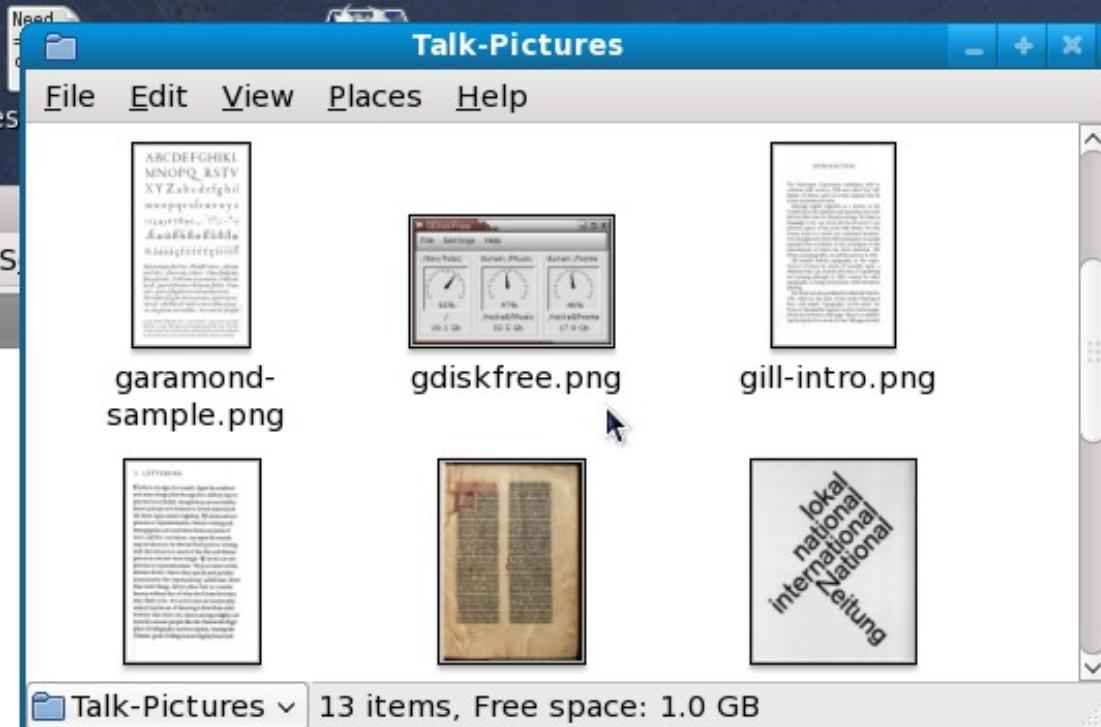
XChat

View

Server

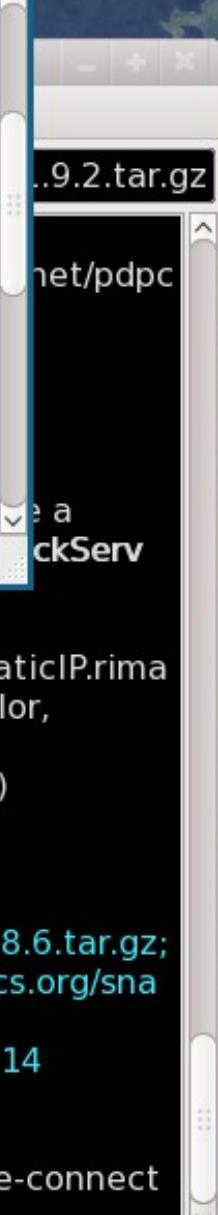
S

- ▽ #cairo
 - #fedora-admin
 - #radeon
- ▽ #fedora-desktop
 - #gnome-hackers
 - #gnome-shell
 - #gtk+
 - #introspection
 - #online-desktop
 - #sysadmin
 - #clutter
- #desktop



[19:19] -NickServ- You are now identified for **otaylor**.
[19:19] --- otaylor n=otaylor 47.Red-213-97-139.staticIP.rima-tde.net :You are now logged in. (id otaylor, username n=otaylor, hostname 47.Red-213-97-139.staticIP.rima-tde.net)
[19:19] --- services. sets mode +e otaylor
[19:19] --> You are now talking on #cairo
[19:19] --- Topic for #cairo is latest release:
[19:19] --- http://cairographics.org/releases/cairo-1.8.6.tar.gz;
[19:19] --- developers snapshot: http://cairographics.org/snapshots/cairo-1.9.2.tar.gz
[19:19] --- Topic for #cairo set by ickle_ at Sun Jun 14 09:38:07 2009
[19:19] --- #cairo :http://cairographics.org
[19:19] --- Received a CTCP VERSION from freenode-connect

otaylor



Flexible

Focused

Smart

...Tour ...

gnome-shell JS

Javascript Engine

gobject-introspection

Metacity
Core

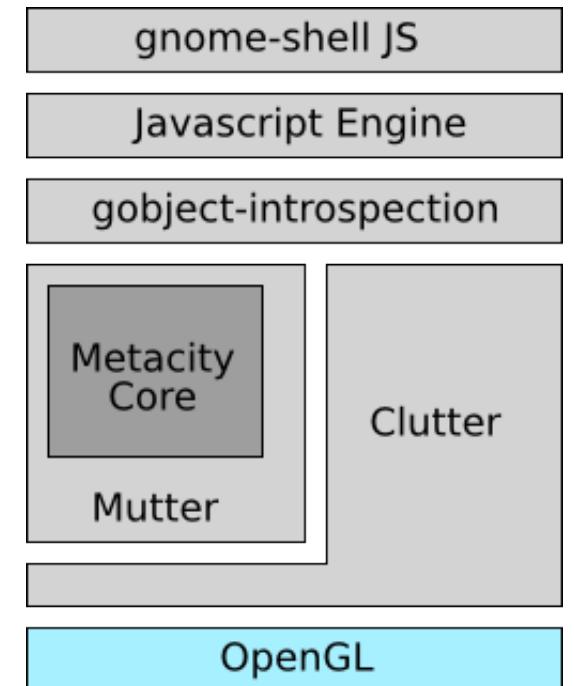
Mutter

Clutter

OpenGL

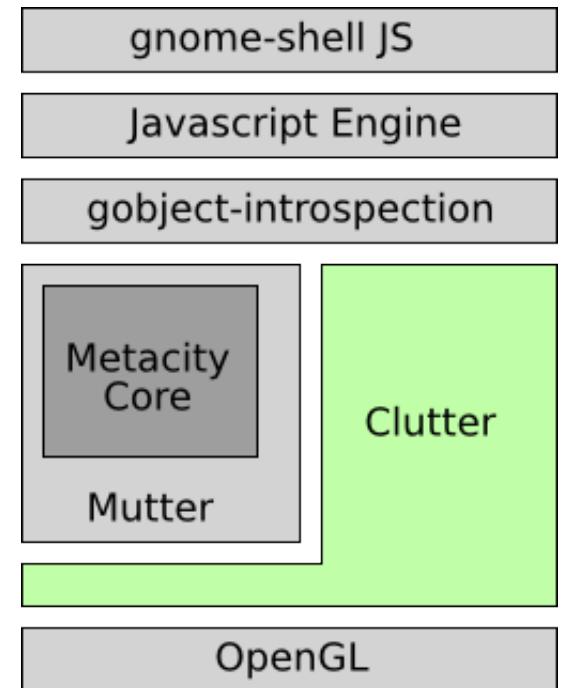
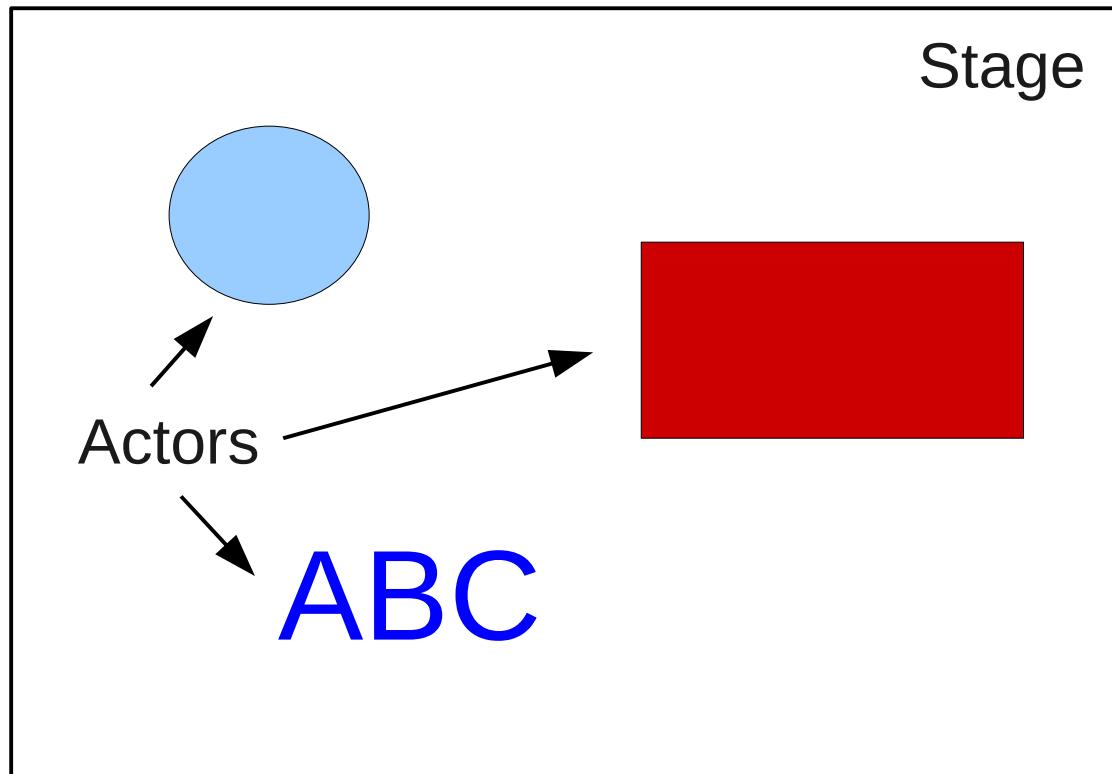
OpenGL

- Direct access to hardware
- Fast scaling, alpha-blending, etc.



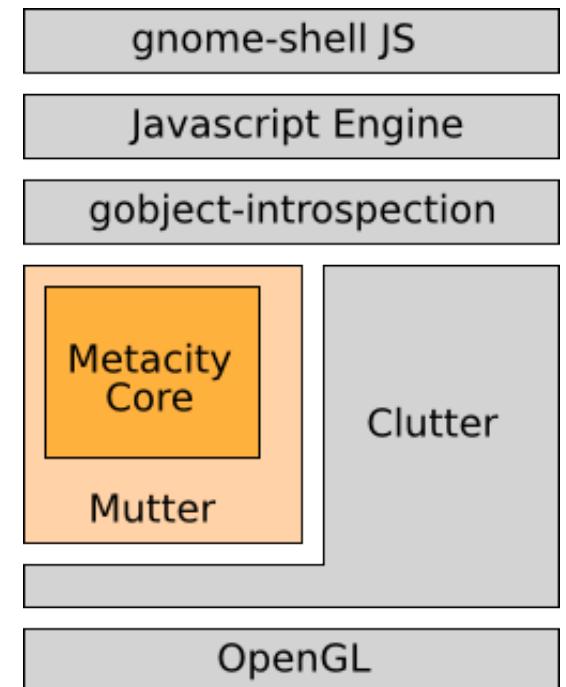
Clutter

- OpenGL Scene graph



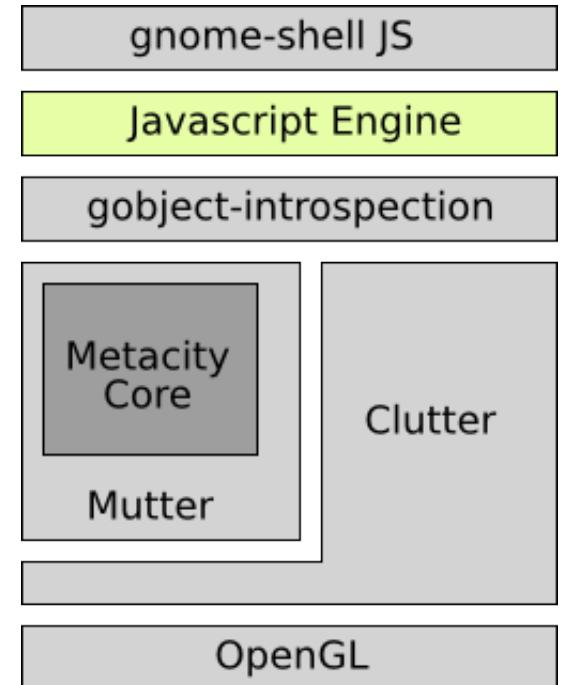
Mutter

- Clutter-based compositing manager
- Window management logic from Metacity



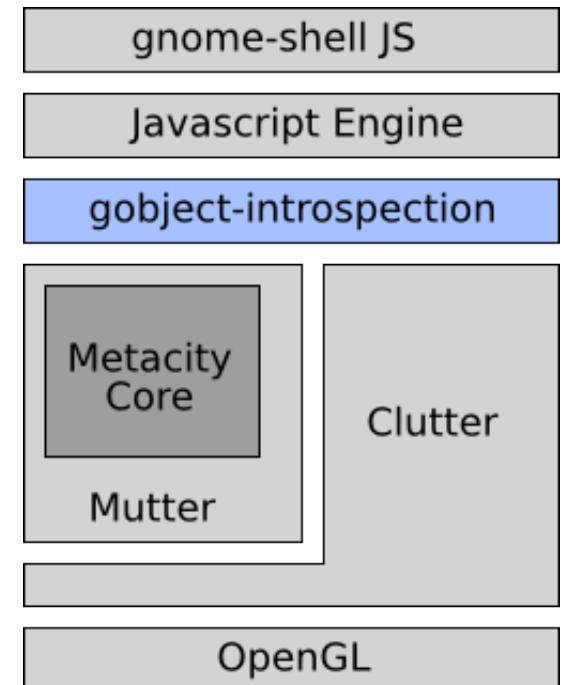
Javascript

- Experimentation friendly
- Familiar
- No big standard library
 - Platform is GNOME platform
 - Sandboxing?



gobject-introspection

- Static description of library
- No bindings to write



```
/**  
 * shell_reverse_string_list  
 * @list: (transfer none) (element type utf8):  
 *         the list to reverse  
 * Return value: (transfer full) (element-type utf8):  
 *         the list, reversed  
 */  
GList *shell_reverse_string_list(GList *list)  
{  
    GList *result = NULL, *l;  
    for (l = list; l; l = l->next) {  
        result = g_slist_prepend (result, g_strdup (l));  
    }  
    return result;  
}
```

```
const Shell = imports.gi.Shell;  
  
Shell.reverse_string_list(["a", "b"])  
=> ["b", "a"]
```

Future Directions

Zeitgeist
(see next talk)

Malcolm Gladwell - Blink CD 1 of 10

GNOME: The Free Software Desktop Project

Music Edit View Control Help

Play Previous Next

Malcolm Gladwell - Blink CD

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GNOME: The Free Software Desktop Project

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 1 2 3 4 5

What is new ▶

Latest News

Keynote Speakers Announced for the Gran Canaria Desktop Summit

Upcoming Events

Gran Canaria Desktop Summit 2009

July 3-11, 2009, Gran

What is GNOME?

GNOME offers an easy to understand desktop for your GNU/Linux or UNIX

Malcolm Gladwell - Blink... Malcolm Gladwell

Blink - The Power of Thinking 3:24

Malcolm Gladwell - Blink... Malcolm Gladwell

Blink - The Power of Thinking 4:25

94 songs, 7 hours and 43 minutes, 430.9 MB

The image shows a desktop environment with a dark blue theme. In the foreground, a web browser window is open to the GNOME homepage (<http://www.gnome.org/>). The browser's title bar says "GNOME: The Free Software Desktop Project". The main content of the page features a large green "3" followed by the text "is coming!" and "GNOME ~~2.26~~ has arrived!". Below this, there are sections for "Latest News" (mentioning keynote speakers for the Gran Canaria Desktop Summit) and "Upcoming Events" (listing the Gran Canaria Desktop Summit 2009). To the left of the browser, a portion of a music player window is visible, showing a library of songs from a CD named "Malcolm Gladwell - Blink CD 1 of 10". The music player has tabs for Home, News, Projects, Art, Support, Development, and Community. The "Music" tab is selected. The song list includes tracks 1 through 14, with tracks 4 and 5 being "Malcolm Gladwell - Blink..." and "Blink - The Power of Thinking" respectively.

Malcolm Gladwell - Blink CD 1 of 10

GNOME: The Free Software Desktop Project

File Edit View History Bookmarks Tools Help

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Malcolm Gladwell - Blink CD

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GNOME 3 is coming! 2.26 has arrived!

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Lucy: Have you ever seen "You suck at Photoshop?"

Malcolm Gladwell - Blink CD 1 of 10

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Malcolm Gladwell - Blink CD 1 of 10

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Stores Jamendo Magnatune

Playlists My Top ... Recently ... Recently ...

CD

File Edit View History Bookmarks Tools Help

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GNOME: The Free Software Desktop Project

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Blink - The Power of Thinking

Blink - The Power of Thinking

What is GNOME? Lucy

Have you ever seen "You suck at Photoshop?"

GNU/Linux or UNIX

Yeah! I was watching it today at work.

94 songs, 7 hours and 43 minutes, 430.9 MB

When?

- Now
 - Try it out
- GNOME 2.28
 - Preview release
- GNOME 3.0
 - More polish. More features.

Getting Involved

<http://live.gnome.org/GnomeShell>

Building It
Background
Mockups
IRC, Mailing List
Projects

BOF Thursday

Contributors

Milan Bouchet-Valat

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