

Customizing GNOME *Desktop*

Pesta Rilis Ubuntu 16.04
Kementerian Komunikasi dan Informatika
Republik Indonesia
14 Mei 2016

Kukuh Syafaat
cho2@gnome.id



Kenalan Dulu

Kukuh Syafaat

- 🐾 *FOSS enthusiast*
- 🐾 Pengembang @blankonlinux
- 🐾 Pengguna destop @gnome



“GNOME”?

“GNOME 3”?

“GNOME 3.0”?

“GNOME 3.20”?



- Applications
- Places
- System
- Accessories
- Games
- Graphics
- Internet
- Office
- Programming
- Sound & Video
- Add/Remove...

- Ekiga Softphone
- Evolution Mail
- Firefox Web Browser
- Gaim Internet Messenger
- Terminal Server Client
- Thunderbird Mail

Add/Remove Applications

Search:

Show: Supported Ubuntu applications

Application	Popularity
<input type="checkbox"/> AbiWord Word Processor AbiWord Word Processor	★★★★
<input type="checkbox"/> Adept Manager Manage installed and available software	★★★★
<input checked="" type="checkbox"/> AisleRiot Solitaire Play many different solitaire games	★★★★★
<input type="checkbox"/> Akregator An RSS Aggregator for KDE	★★★★
<input type="checkbox"/> Amarok	★★★★

Quick Introduction

To install an application check the box next to the application. Uncheck the box to remove the application. To perform advanced tasks use the Synaptic package manager.

- Applications
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- System
- Accessories
- Games
- Graphics
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Ubuntu 7.04 (Feisty Fawn)

ubuntu

File Edit View Go Bookmarks Help

← Back → Forward ↑ × ↻ 🏠 🖥️ 🔍 100% 🔍 Icon View 🔍

Places ×

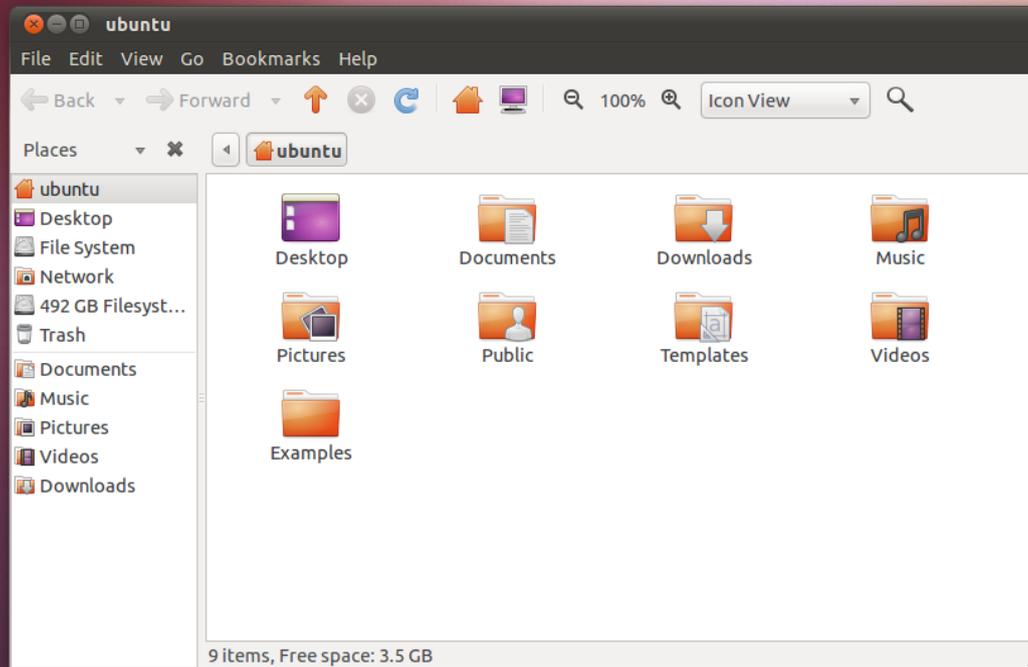
- ubuntu
- Desktop
- File System
- Network
- 492 GB Filest...
- Trash
- Documents
- Music
- Pictures
- Videos
- Downloads

Desktop Documents Downloads Music

Pictures Public Templates Videos

Examples

9 items, Free space: 3.5 GB



Ubuntu 10.10 (Maverick Meerkat)

🔍 Type to search...



ubuntu GNOME[®]

- 🐾 <https://ubuntugnome.org/>
- 🐾 <https://wiki.ubuntu.com/UbuntuGNOME>
- 🐾 Ubuntu is a trademark of Canonical
- 🐾 GNOME is a trademark of the GNOME Foundation
- 🐾 Used by permission



ubuntu GNOME[®]

- 🐾 Ubuntu GNOME is an official flavor of Ubuntu, featuring the GNOME desktop environment.
- 🐾 Ubuntu GNOME (formerly Ubuntu GNOME Remix) is a mostly pure GNOME desktop experience built from the Ubuntu repositories.



ubuntu GNOME[®]

Minimum System Requirements

- 🐾 1 GHz processor (for example Intel Celeron) or better.
- 🐾 1.5 GB RAM (system memory).
- 🐾 7 GB of free hard drive space for installation.
- 🐾 Either a CD/DVD drive or a USB port for the installer media.
- 🐾 Internet access is helpful (for installing updates during the installation process).



ubuntu GNOME[®]

Features of Ubuntu GNOME 16.04 LTS

GNOME 3.18

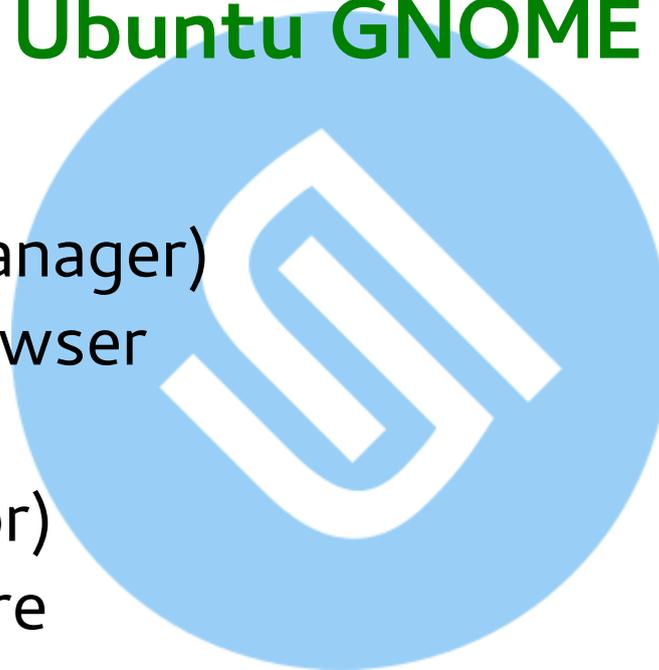
-  Fixes to Language pack installation (gnome-control-center) and ibus support
-  GNOME Software has replaced Ubuntu Software Center
-  GNOME Calendar and GNOME Logs are installed by default
-  GNOME Builder (IDE) is now available in the archives
-  Support for installing Snappy packages.



ubuntu GNOME[®]

Applications in Ubuntu GNOME 16.04 LTS

- GNOME Shell
- Nautilus (File Manager)
- Firefox Web Browser
- LibreOffice
- gedit (Text Editor)
- GNOME Software
- Tweak Tool



GNOME 3 (3.20)

We've come a long way



Elegant design



GNOME <https://www.gnome.org/>

[GNOME 3](#)
[Applications](#)
[About Us](#)
[Get Involved](#)
[Trademarks](#)

GNOME 3: Ease, comfort and control

GNOME 3 is an easy and elegant way to use your computer. It is designed to put you in control and bring freedom to everybody. GNOME 3 is developed by the GNOME community, a diverse, international group of contributors that is supported by an independent, non-profit foundation.

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Your donation will ensure that GNOME continues to be a free and open source desktop by providing resources to developers, software and education for end users, and promotion for GNOME worldwide.

[Get involved!](#)

The GNOME Project is a diverse international community which involves hundreds of contributors, many of whom are volunteers. Anyone can contribute to the GNOME!

Latest news

[March 19, 2016](#)

[March 16, 2016](#)

[February 19, 2016](#)

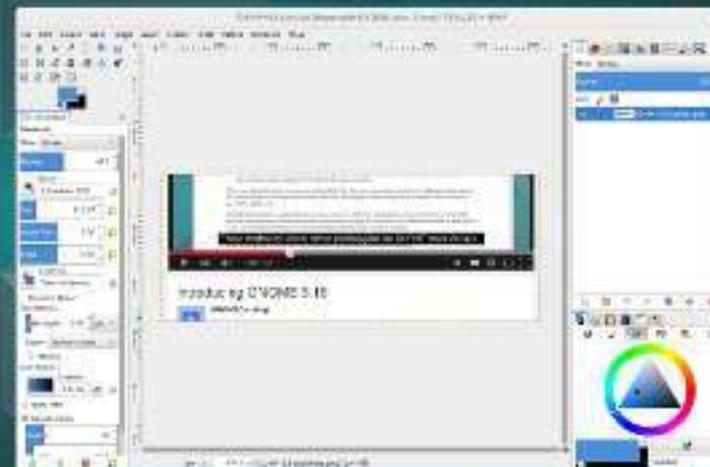
Activities overview



Type to search...



Editing 'Random 4 Random Messages' - WordPress



[01-04-15 screenshot] (Imported)-3.0 (RGB color, 1 layer) 730x262 - GIMP



Notifications



rupert: could I borrow your car for a while?

HowDoI/GtkApplication - GNOME Wiki!

<http://wiki.gnome.org/HowDoI/GtkApplication>

`GtkApplication` is the base class of a `Gtk Application`. Its primary purpose is to separate your program from `main()`.

`main()` is an operating system implementation detail that is really uninteresting to applications. The philosophy of `GtkApplication` is that applications are interested in being told what needs to happen, when it needs to happen, in response to actions from the user. The exact mechanism by which the operating system starts applications is uninteresting.

To this end, `GtkApplication` exposes a set of signals (or virtual functions) that an application should respond to.

- `startup`: sets up the application when it first starts
- `shutdown`: performs shutdown tasks
- `activate`: shows the default first window of the application (like a new document). This corresponds to the application being launched by the desktop environment.
- `open`: opens files and shows them in a new window. This corresponds to someone trying to open a document (or documents) using the application from the file browser, or similar.

When your application starts, the `startup` signal will be fired. This gives you a chance to perform initialisation tasks that are not directly related to showing a new window. After this, depending on how the application is started, either `activate` or `open` will be called next.

`GtkApplication` defaults to applications being single-instance. If the user attempts to start a second instance of a single-instance application then `GtkApplication` will signal the first instance and you will receive additional `activate` or `open` signals. In this case, the second instance will exit immediately, without calling `startup` or `shutdown`.

For this reason, you should do essentially no work at all from `main()`. All startup initialisation should be done in `startup`. This avoids wasting work in the second-instance case where the program just exits immediately.

The application will continue to run for as long as it needs to. This is usually for as long as there are any open windows. You can additionally force the application to stay alive using `g_application_hold()`.

Loading "wiki.gnome.org"...

... you receive a `shutdown` signal where you can do any necessary cleanup tasks (such as saving files to disk).

Notifications

 rupert ✕

 Bastian 13:59

Release Beers March the 28th

Sunday

February 22 2015



Add world clocks...

To this end, Gtk

- startup: se
- shutdown: p
- activate: s
- open: opens documents

When your applica
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open will be calle

GtkApplication d
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On shutdown, you receive a `shutdown` signal where you can do any necessary cleanup tasks (such as saving files to disk).

GtkApplication does not implement `main()` for you. You must do so yourself. Your `main()` function should be as small as possible and do almost nothing except creating your GtkApplication and running it. The "real work" should always be done in response to the signals fired by GtkApplication.

Integrated messaging



rupert

do you have some music recommendations?

sure, what genre? 14:01

could I borrow your car for a while?

what if

GtkApplication is the base

am from `main()`.

`main()` is an operating system implementation detail that is really uninteresting to applications. The philosophy of `GtkApplication` is that applications are interested in being told what needs to happen, when it needs to happen, in response to actions from the user. The exact mechanism by which the operating system starts applications is uninteresting.

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Desktop search with search providers



4 * 4



4 * 4 = 16



g8443



g8054



CIS224 Software Projects: Software Engineering and Research Methods



Search the Web for 4 * 4

And more!

- 🐾 Topic-oriented help
 - 🐾 Intuitive system settings
 - 🐾 ...
-
- 🐾 Many small features to improve your experience!



GNOME releases

 2.2: 2003-02-06

...

 2.26: 2009-03-18

 2.28: 2009-09-23

 2.30: 2010-03-31

 2.32: 2010-09-29

 3.0: 2011-04-06

 3.2: 2011-09-28

 3.4: 2012-03-26

 3.6: 2012-09-26

 3.8: 2013-03-27

 3.10: 2013-09-25

 3.12: 2014-03-25

 3.14: 2014-09-24

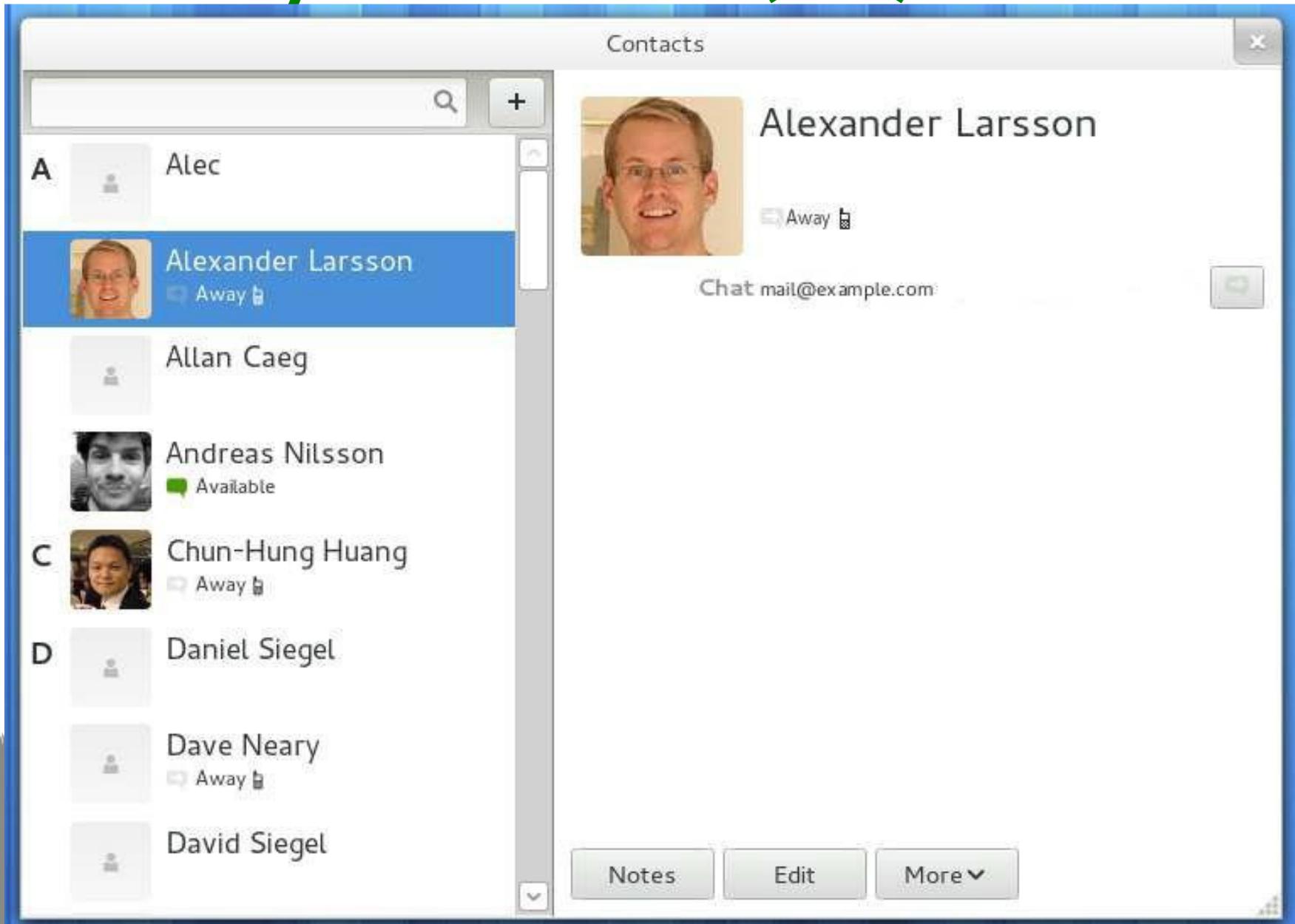
 3.16: 2015-03-25

 3.18 (G'burg): 2015-09-21

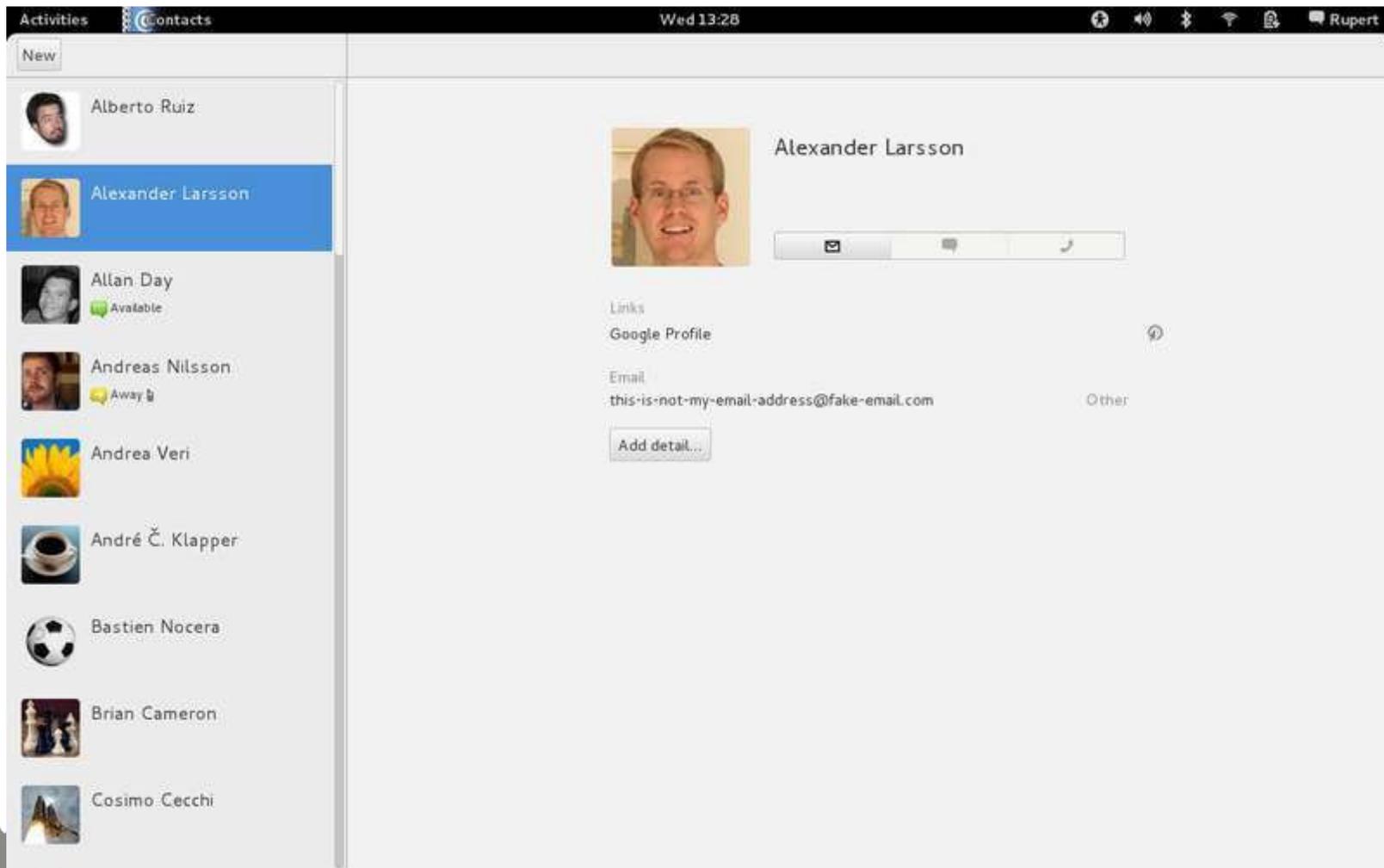
 3.20 (Delhi): 2016-03-21



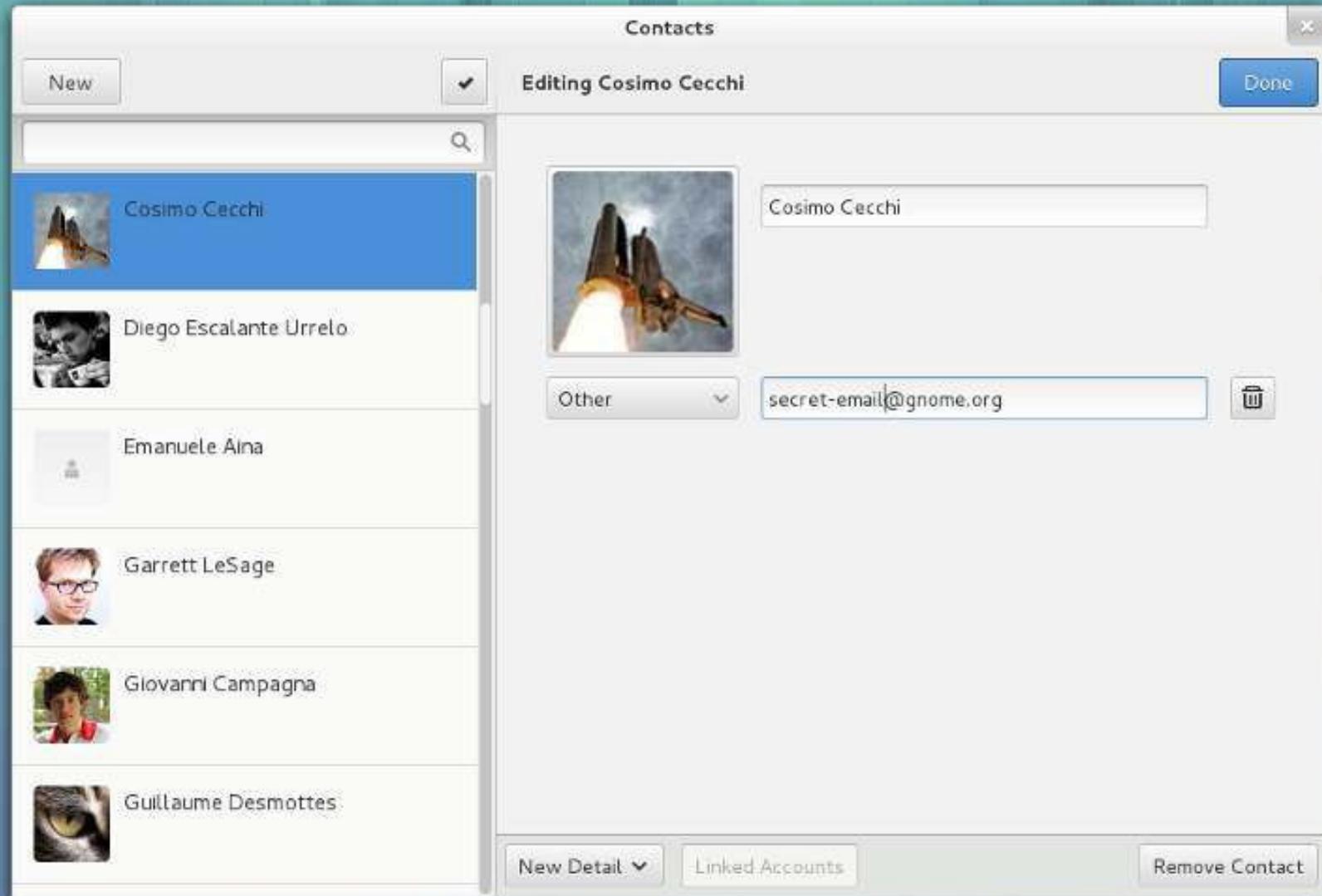
The story of contacts (3.2)



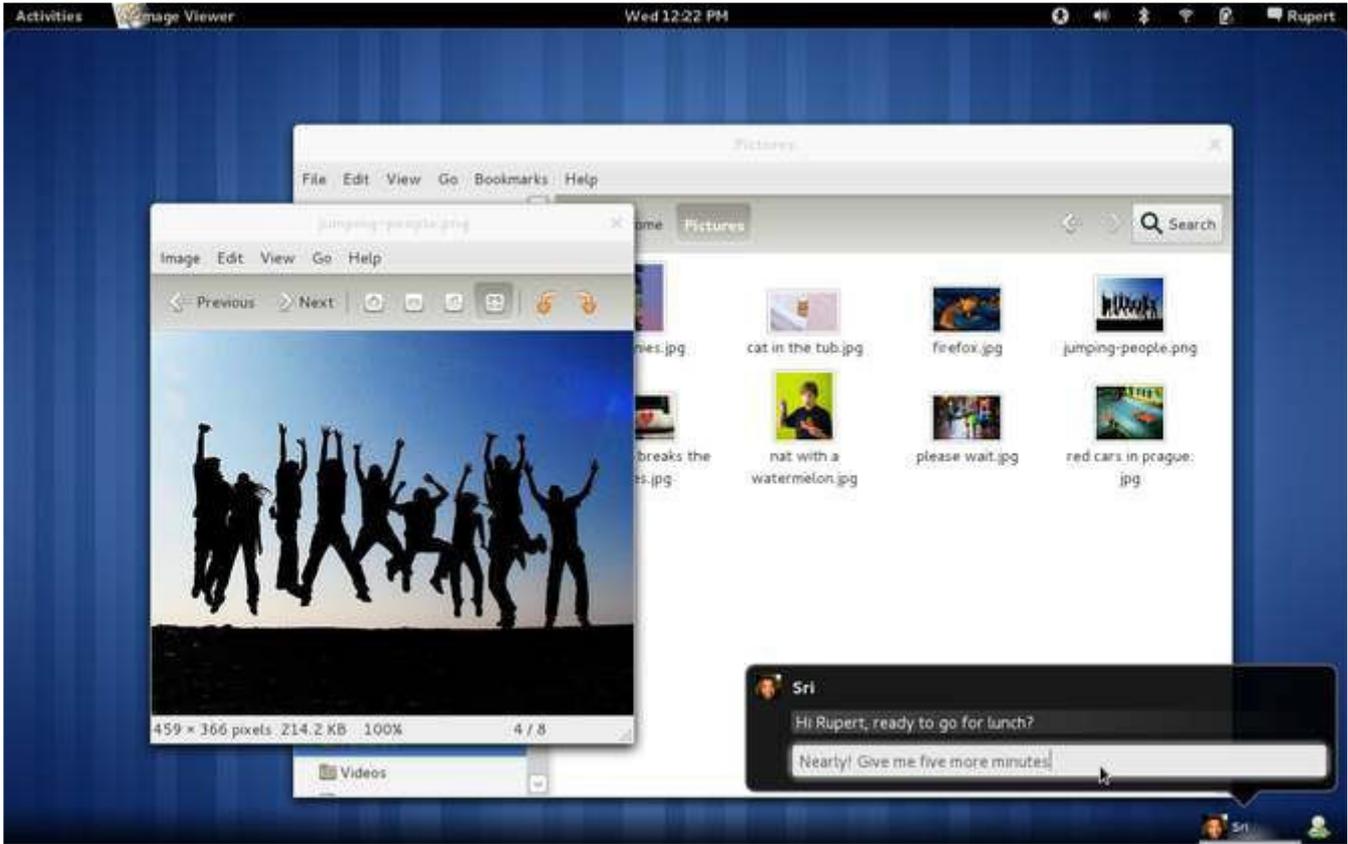
The story of contacts (3.4)



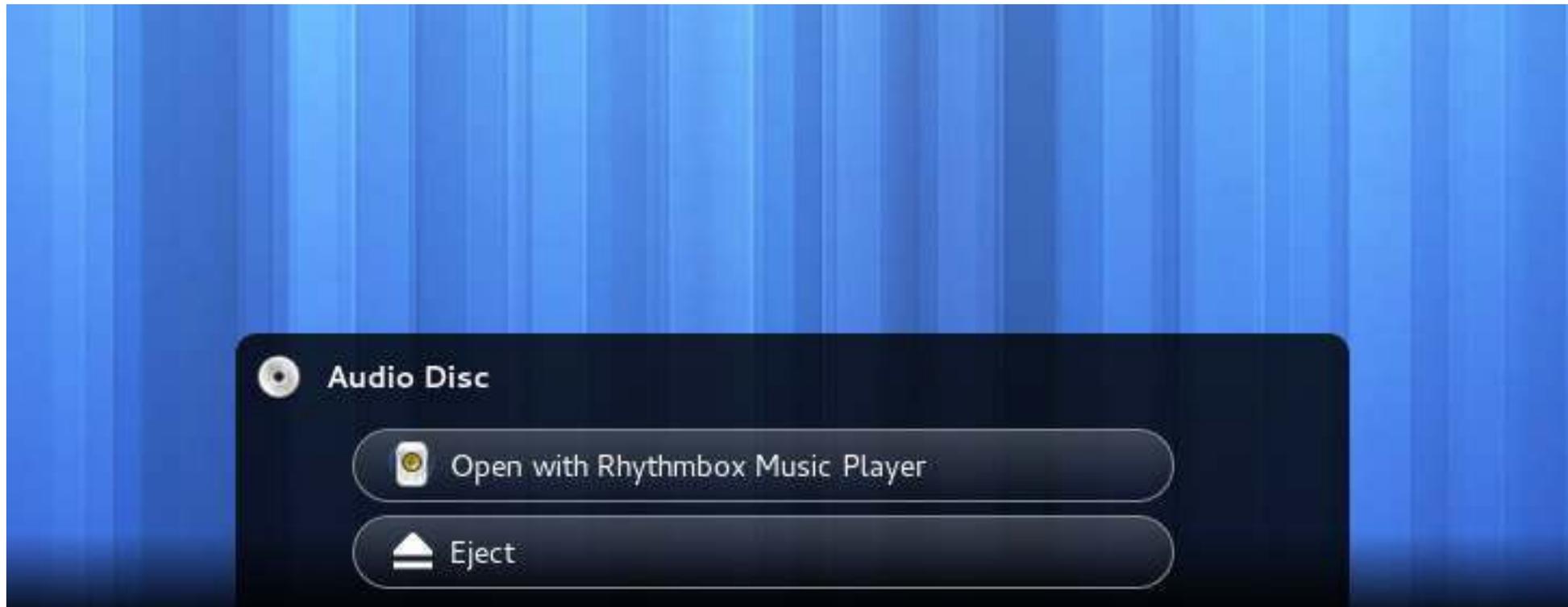
The story of contacts (3.8)



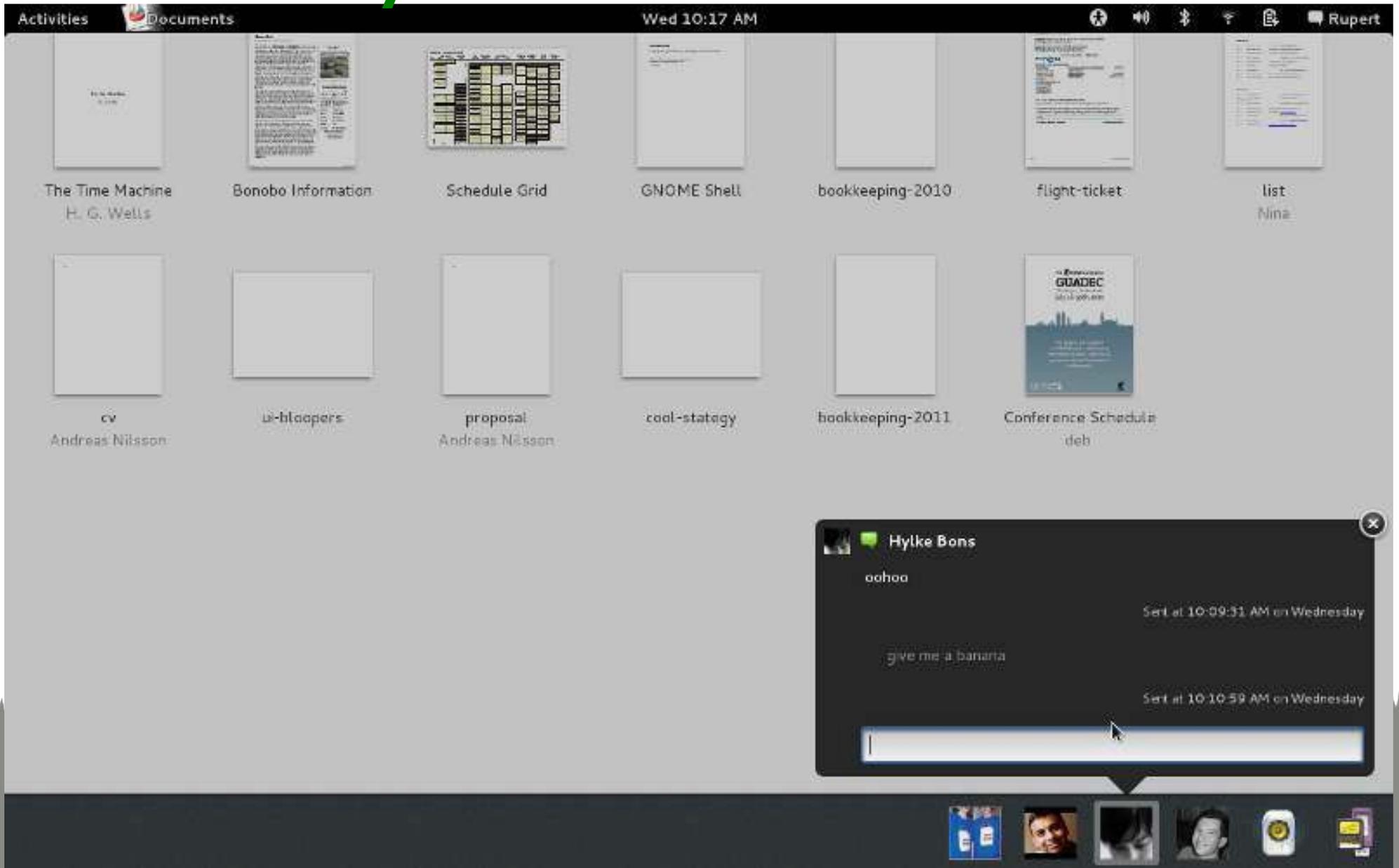
The story of notifications



The story of notifications



The story of notifications



The story of notifications



The story of notifications

Tue 14:50

Media



Jim Guthrie
The Prettiest Remix



Tuesday

March 15 2016

◀ March ▶

S	M	T	W	T	F	S
28	29	01	02	03	04	05
06	07	08	09	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	01	02
03	04	05	06	07	08	09

Add world clocks...

GNOME 3.20

Approximately 772 people made about 25112 changes to GNOME

- 🐾 New notifications system
- 🐾 Updated shell visuals
- 🐾 Improved developer experience
- 🐾 ...



GNOME 3 on Ubuntu PPA

 **GNOME3 Stable PPA** - This is the stable version, and contains updates for any packages that didn't make it into the Ubuntu archives for the current stable cycle.

 **GNOME3 Staging PPA** - staging is for the things that have known regressions and/or bugs. Basically a place to get the bleeding edge packages that are still a work in progress and under testing.



GNOME3 Stable PPA

 <https://launchpad.net/~gnome3-team/+archive/ubuntu/gnome3>

```
deb http://ppa.launchpad.net/gnome3-team/gnome3/ubuntu  
xenial main  
  
deb-src http://ppa.launchpad.net/gnome3-team/gnome3/ubuntu  
xenial main
```



GNOME3 Staging PPA

 <https://launchpad.net/~gnome3-team/+archive/ubuntu/gnome3-staging>

```
deb http://ppa.launchpad.net/gnome3-team/gnome3-staging/ubuntu xenial main
```

```
deb-src http://ppa.launchpad.net/gnome3-team/gnome3-staging/ubuntu xenial main
```



GNOME 3.20 on Ubuntu GNOME 16.04

Upgrade to GNOME 3.20

```
sudo add-apt-repository ppa:gnome3-team/gnome3-staging  
sudo apt-get update  
sudo apt-get dist-upgrade
```



GNOME 3.20 on Ubuntu GNOME 16.04

Downgrade to GNOME 3.18

```
sudo apt-get install ppa-purge  
sudo ppa-purge ppa:gnome3-team/gnome3-staging
```



GNOME 3.20 on Ubuntu 16.04

```
sudo add-apt-repository ppa:gnome3-team/gnome3-staging  
sudo apt-get update  
sudo apt-get install ubuntu-gnome-desktop
```



Evolving GNOME 3

<http://extension.gnome.org>
GNOME Tweak Tool



- Aplikasi Awal Mula
- Area kerja
- Bilah Puncak
- Daya
- Desktop
- Ekstensi**
- Fonta
- Jendela
- Mengetik
- Papan Tik dan Tetikus
- Penampilan

Ekstensi		
<input type="checkbox"/>	MATI Alternatetab Substitute alt-tab with a window based switcher that does not group by application.	 <input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI Applications menu Add a category-based menu for applications.	<input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI Auto move windows Move applications to specific workspaces when they create windows.	 <input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI Launch new instance Always launch a new instance when clicking in the dash or the application view.	<input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI Native window placement Arrange windows in overview in a more compact way.	<input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI Places status indicator Add a menu for quickly navigating places in the system.	<input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI Removable drive menu A status menu for accessing and unmounting removable devices.	<input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI Screenshot window sizer Resize windows for gnome software screenshots	<input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI User themes Load shell themes from user directory.	<input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI Window list Display a window list at the bottom of the screen.	 <input type="button" value="Hapus"/>
<input type="checkbox"/>	MATI Workspace indicator Put an indicator on the panel signaling in which workspace you are, and give you the possibility of switching to another one.	 <input type="button" value="Hapus"/>



1 2 3 4 ... 24 » Sort by [Popularity](#) Compatible with [Current version](#)

- Applications Menu** by [fmuellner](#)
Add a category-based menu for applications.
- User Themes** by [fmuellner](#)
Load shell themes from user directory.
- Places Status Indicator** by [fmuellner](#)
Add a menu for quickly navigating places in the system.
- AlternateTab** by [fmuellner](#)
Substitute Alt-Tab with a window based switcher that does not group by application.
- Removable Drive Menu** by [fmuellner](#)
A status menu for accessing and unmounting removable devices.
- OpenWeather** by [jens](#)
Weather extension to display weather information from <https://openweathermap.org/> or <https://forecast.io> for almost all locations in the world.



Web

 <https://wiki.gnome.org/Apps/Web>

 Web is the WebKit based web browser for GNOME. It offers a simple, clean, beautiful view of the Web. Its code name is Epiphany

```
sudo apt-get install epiphany-browser
```





Extensions

Extensions

Add yours

Installed extensions

About

We cannot detect a running copy of GNOME on this system, so some parts of the interface may be disabled. See [our troubleshooting entry](#) for more information.

1 2 3 4 ... 69 » Sort by Popularity ▾

Applications Menu by [fmuellner](#)
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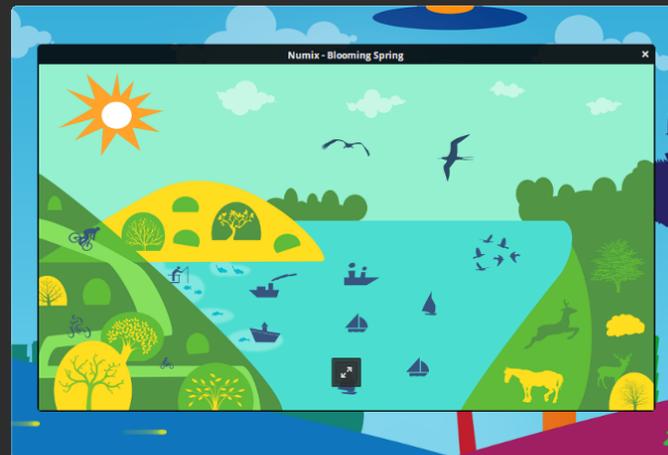
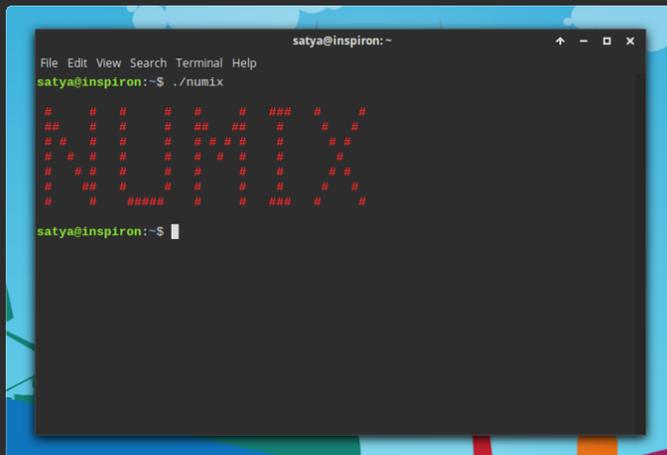
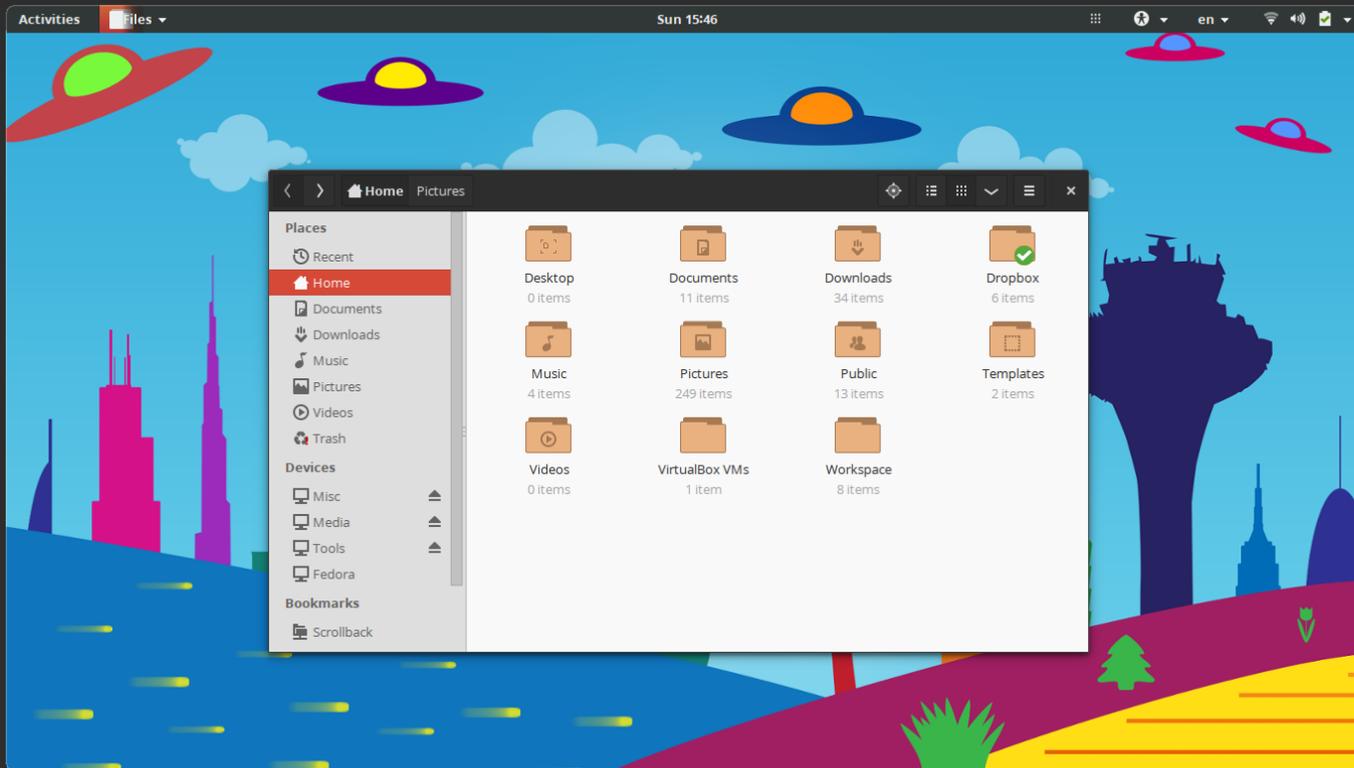
OpenWeather



Custom

GTK+ Theme Icon





NUMIX
GTK THEME

Numix

 [https://launchpad.net/~numix/
+archive/ubuntu/ppa](https://launchpad.net/~numix/+archive/ubuntu/ppa)

```
deb http://ppa.launchpad.net/numix/ppa/ubuntu xenial main
deb-src http://ppa.launchpad.net/numix/ppa/ubuntu xenial
main
```



Numix

 <https://numixproject.org/>

```
sudo add-apt-repository ppa:numix/ppa
```



Numix GTK Theme

 <https://github.com/numixproject/numix-gtk-theme>

```
sudo apt-get install numix-gtk-theme
```



Numix Icon Theme

 <https://github.com/numixproject/numix-icon-theme>

```
sudo apt-get install numix-icon-theme
```



Numix Icon Theme Circle

 <https://github.com/numixproject/numix-icon-theme-circle>

```
sudo apt-get install numix-icon-theme-circle
```



File manager window showing the directory `/srv`. The left sidebar lists various system folders, with **Rechner** (Computer) selected. The main pane shows two folders: `fip` (0 Objekte) and `http` (0 Objekte).

Settings window titled **Maus und Tastfeld** (Mouse and Keyboard). It includes a sub-header **Testen Sie Ihre Einstellungen** (Test your settings).

- Allgemein** (General):
 - Primäre Taste (Primary button): Links (Left), Rechts (Right)
 - Doppelklick (Double-click): Sliders from *Langsam* to *Schnell*
- Maus** (Mouse):
 - Zeigergeschwindigkeit (Pointer speed): Sliders from *Langsam* to *Schnell*
- Tastfeld** (Keyboard):
 - Zeigergeschwindigkeit (Pointer speed): Sliders from *Langsam* to *Schnell*
 - Drücken zum Klicken (Press to click)
 - Bildlauf mit zwei Fingern (Scroll with two fingers)
 - Natürlicher Bildlauf (Natural scroll)



Arc Theme

 <https://github.com/horst3180/arc-theme>

```
git clone https://github.com/horst3180/arc-  
theme --depth 1 && cd arc-theme  
  
./autogen.sh --prefix=/usr  
  
sudo make install
```



Arc Theme

 <https://software.opensuse.org/download.html?project=home%3AHorst3180&package=arc-theme>

```
sudo sh -c "echo 'deb
http://download.opensuse.org/repositories/home:/Horst3180/x
Ubuntu_16.04/ /' >> /etc/apt/sources.list.d/arc-theme.list"
sudo apt-get update
sudo apt-get install arc-theme
```



THANK YOU

