



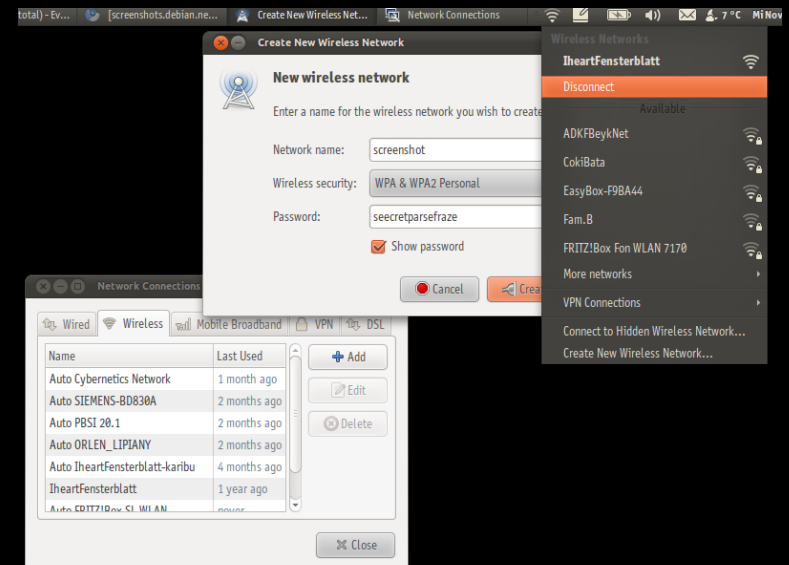
李彬 (Bin Li)



GNOMETM . ASIA

Me

- Canonical
PC, Laptop, Tablet, Phone
- SUSE
NetworkManager
- 北京 GNOME 用户组
<http://www.bjgug.org/>
- GNOME.Asia 组委会成员



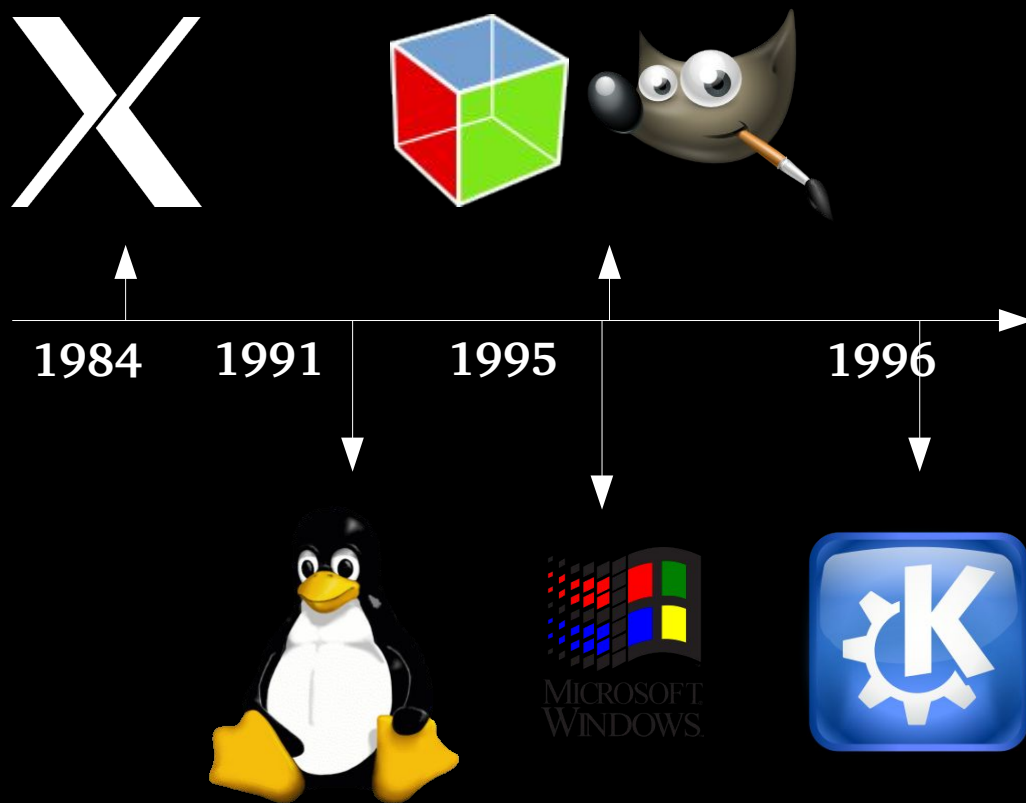


标准发音

GNOME (/**ɡ**'noʊm/)

來自: <https://zh.wikipedia.org/wiki/GNOME>

桌面的历史



From: Miguel de Icaza

To: gtk-list@redhat.com,
kde@fiwi02.wiwi.uni-tuebingen.de,
guile@cygnus.com

Subject: The GNOME Desktop project.

Date: Fri, 15 Aug 1997 22:19:34 -0500



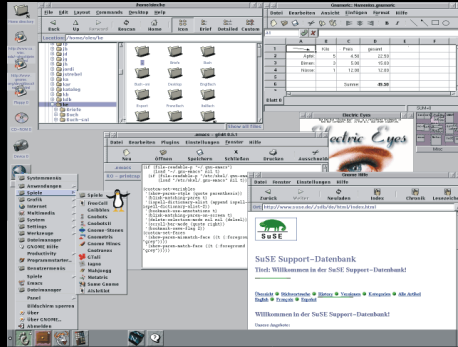
The GNOME Desktop project
(GNU Network Object Model
Environment)

<http://bananoid.nuclecu.unam.mx/gnome>

Goals:

We want to develop a free and complete set of user friendly applications and desktop tools, similar to CDE and KDE but based entirely on free software....

桌面的历史



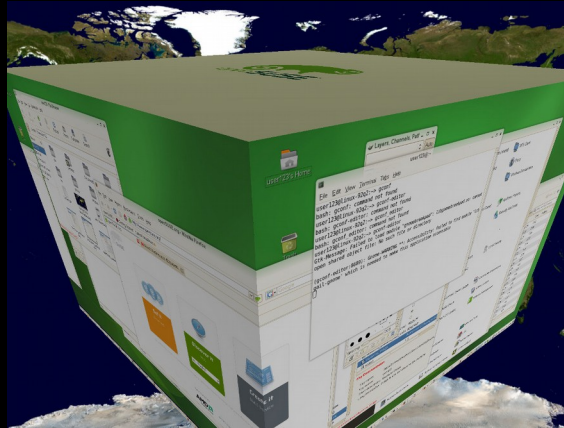
GNOME
GTK+

1997

XFCE (GTK+ 2.x)

1999.3

LXDE



GNOME
2.32

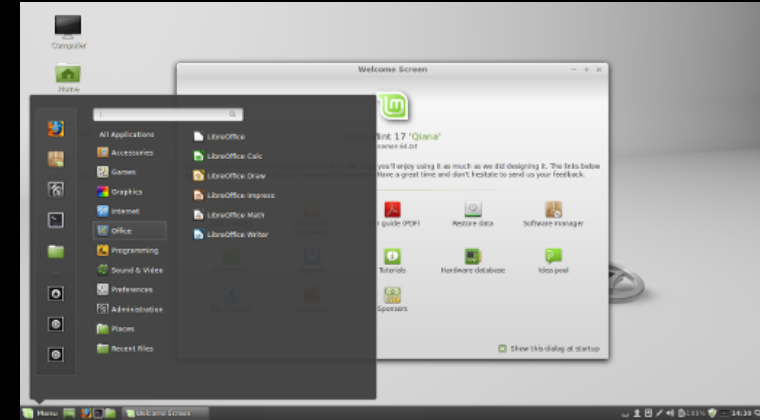
2010.9

2010.10
Unity



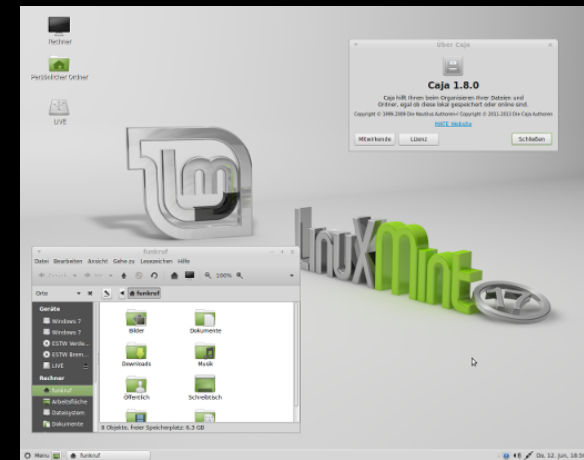
GNOME
Shell(3.0)

2011.4



Cinnamon
2012.1

2011.8 MATE



桌面的历史

2017



Ubuntu 18.04 To Ship with GNOME Desktop

GNOME 是什么？

- 桌面环境
- 开发平台 (GTK+, Qt)
 - C/C++
 - Python
 - JavaScript
 - Vala

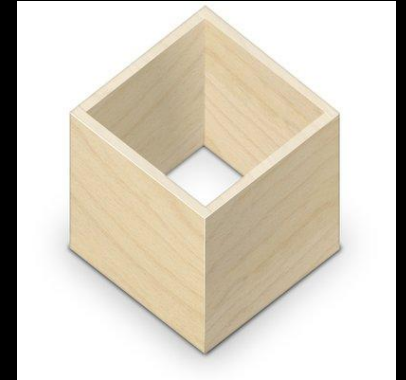
GNOME Shell 扩展机制

- 定制 GNOME Shell
- 优势
 - 不用更改源代码
 - 不用重新编译
 - 容易使用，语法简单
 - 自我保护，调试方便

Demo

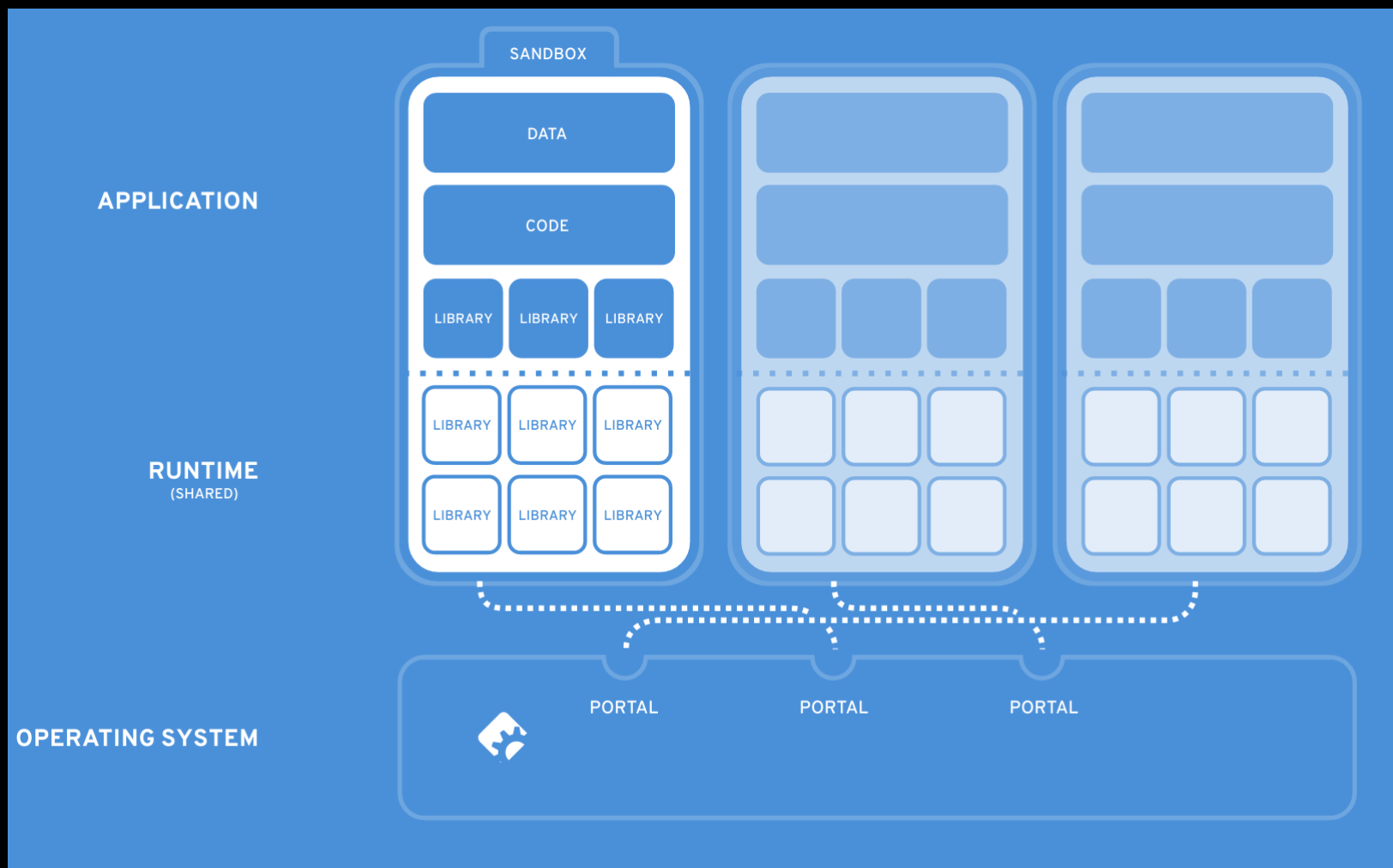
- `gnome-shell-extension-tool --create-extension`
- `Alt + F2 → r`
- `~/.local/share/gnome-shell/extensions/`

GNOME 的未来 Flatpak



- build once, run everywhere
- application developers are in control of the release cycle
- "Docker for desktop apps"

Flatpak 的架构



如何安装 flatpak 包

- 添加源
 - `flatpak remote-add --if-not-exists flathub
https://flathub.org/repo/flathub.flatpakrepo`
- 安装包
 - `https://www.flathub.org/apps.html`
 - `flatpak install --from
https://flathub.org/repo/appstream/io.mgba.mGBA.flatpakref`

如何制作一个 flatpak 包

- `$ mkdir -p hello/files/bin`
- `$ mkdir hello/export`
- `hello.sh`

```
#!/bin/sh
```

```
echo "Hello world, from a sandbox"
```

- `metadata`

```
[Application]
```

```
name=org.test.Hello
```

```
runtime=org.gnome.Platform/x86_64/3.24
```

```
sdk=org.gnome.Sdk/x86_64/3.24
```

```
command=hello.sh
```


如何制作一个 flatpak 包

- `flatpak build-export repo hello`
- `flatpak --user remote-add --no-gpg-verify tutorial-repo repo`
- `flatpak --user install tutorial-repo org.test.Hello`
- `flatpak run org.test.Hello`

Thank you!

Bin Li

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www.bjgug.org

参考链接与图片链接

- <https://live.gnome.org/GnomeShell/Extensions>
- <https://blogs.gnome.org/jrb/2017/07/29/gnome-populum-est/>
- <http://flatpak.org/hello-world.html>
- <https://extensions.gnome.org>