



# Debian GNU/Linux 4.0

**The Universal  
Operating System**

debian



# What is Debian and Etch?

- Debian is a huge open-source project
- Debian GNU/Linux is a major non-commercial volunteer-driven distribution
- Started by Ian Murdock in 1993
- Etch is the code name of Debian GNU/Linux 4.0, which was released on Apr 8<sup>th</sup> 2007

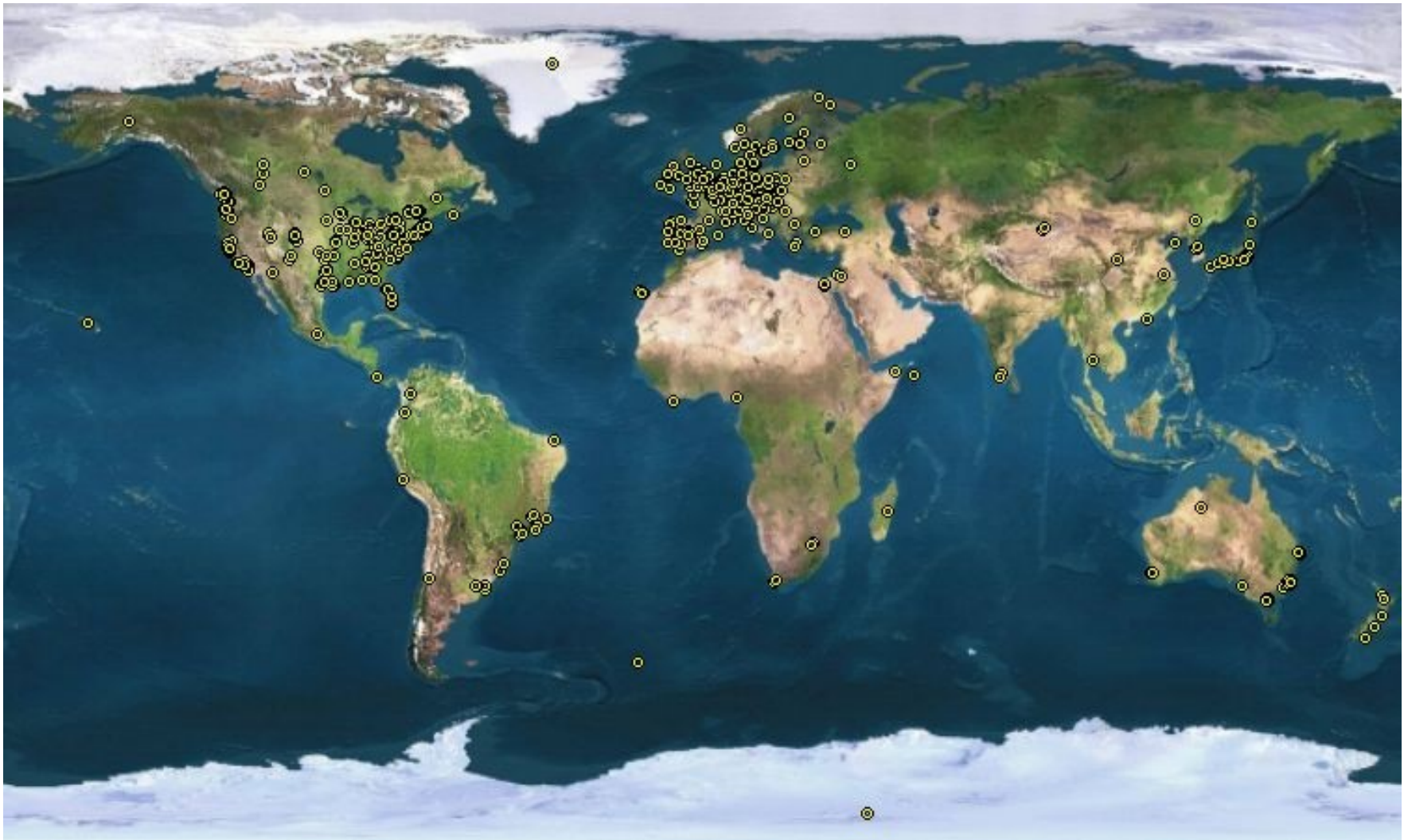


# The Universal Operating System

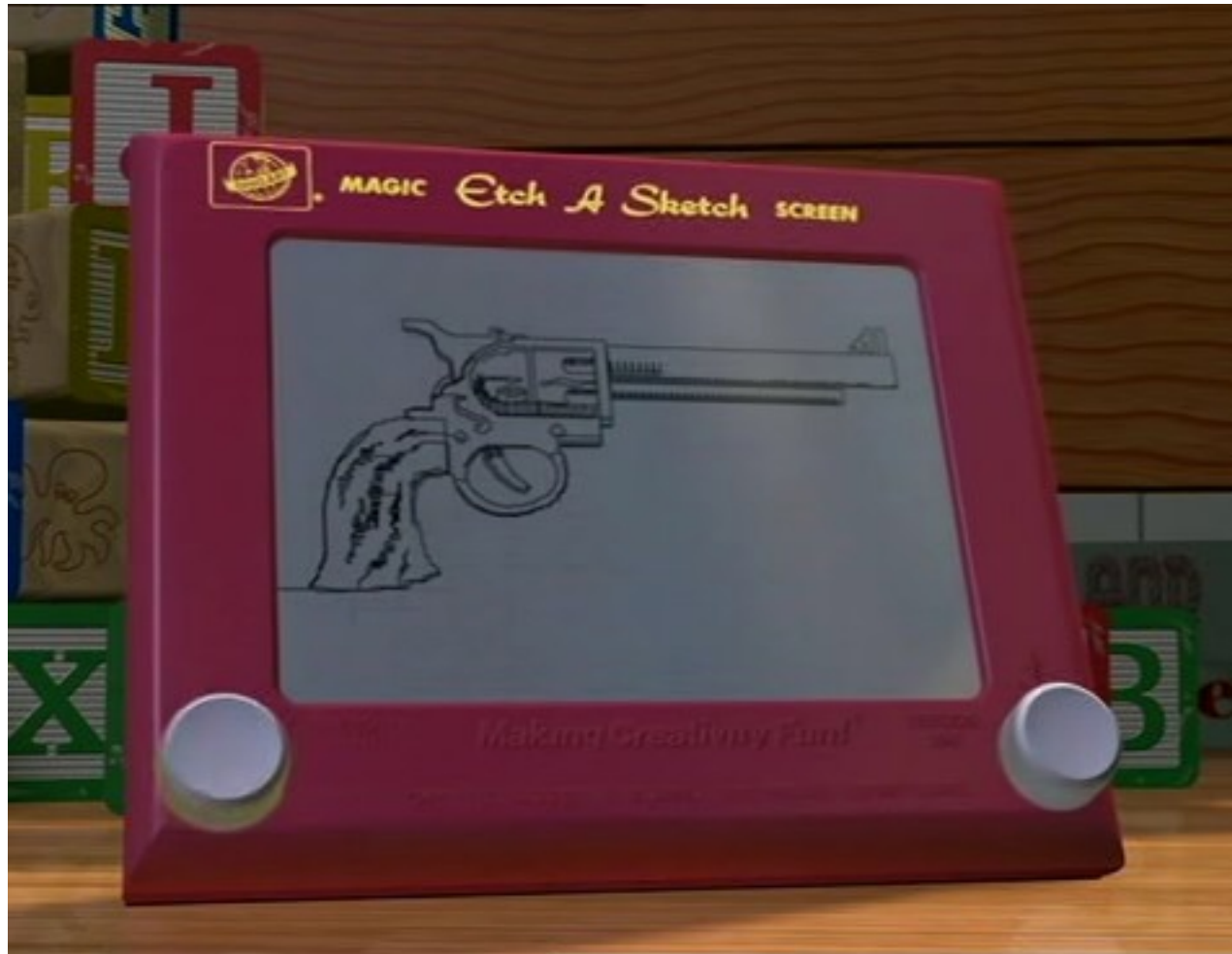
- Supports 11 hardware architectures:
  - i386, amd64, sparc, alpha, powerpc, ia64, arm, mips/mipsel, s390, hppa
- More than 100 derivative distributions
  - Knoppix, Ubuntu, Freespire, Progeny, Storm, MEPIS, Xandros, Libranet, Sunwah RAYS, ...
- Over 18,200 binary packages
- Other kernel flavors being developed
  - Debian GNU/Hurd, Debian GNU/NetBSD, Debian GNU/kFreeBSD

# The Debian Community

- Over 1000 developers around the world



# Etch



Codenames are from the Toy Story cartoon

# Debian GNU/Linux Releases

1.1 – buzz



1.2 – rex



1.3 – bo



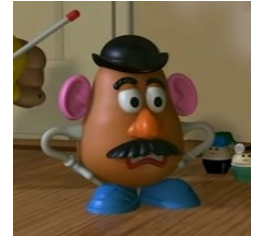
2.0 – hamm



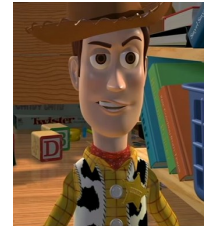
2.1 – slink



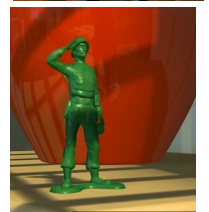
2.2 – potato



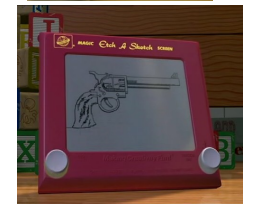
3.0 – woody



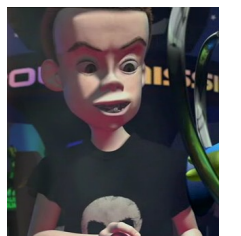
3.1 – sarge



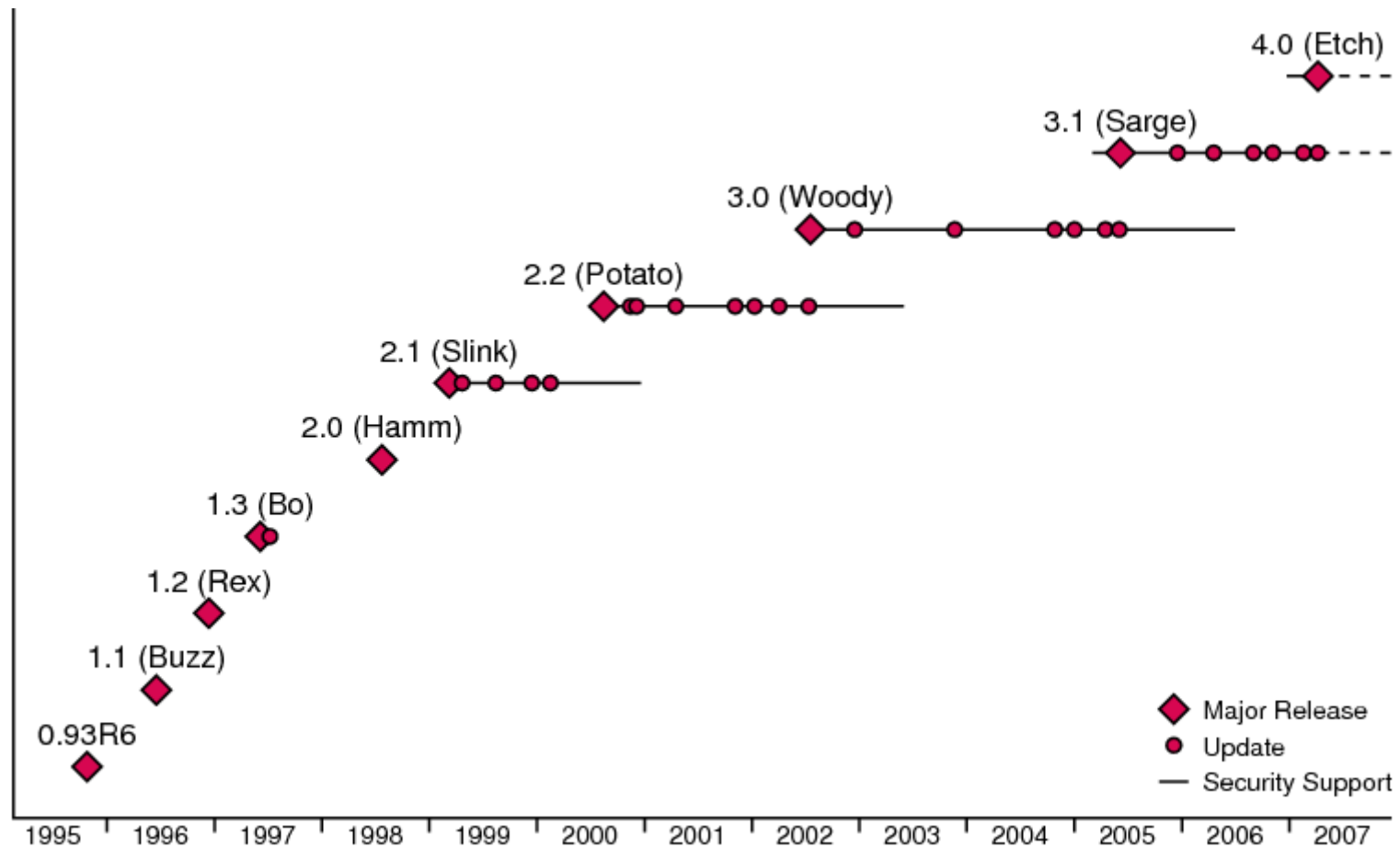
4.0 – etch



*Unstable* – sid



# Debian GNU/Linux Releases



# The Next Release - Lenny

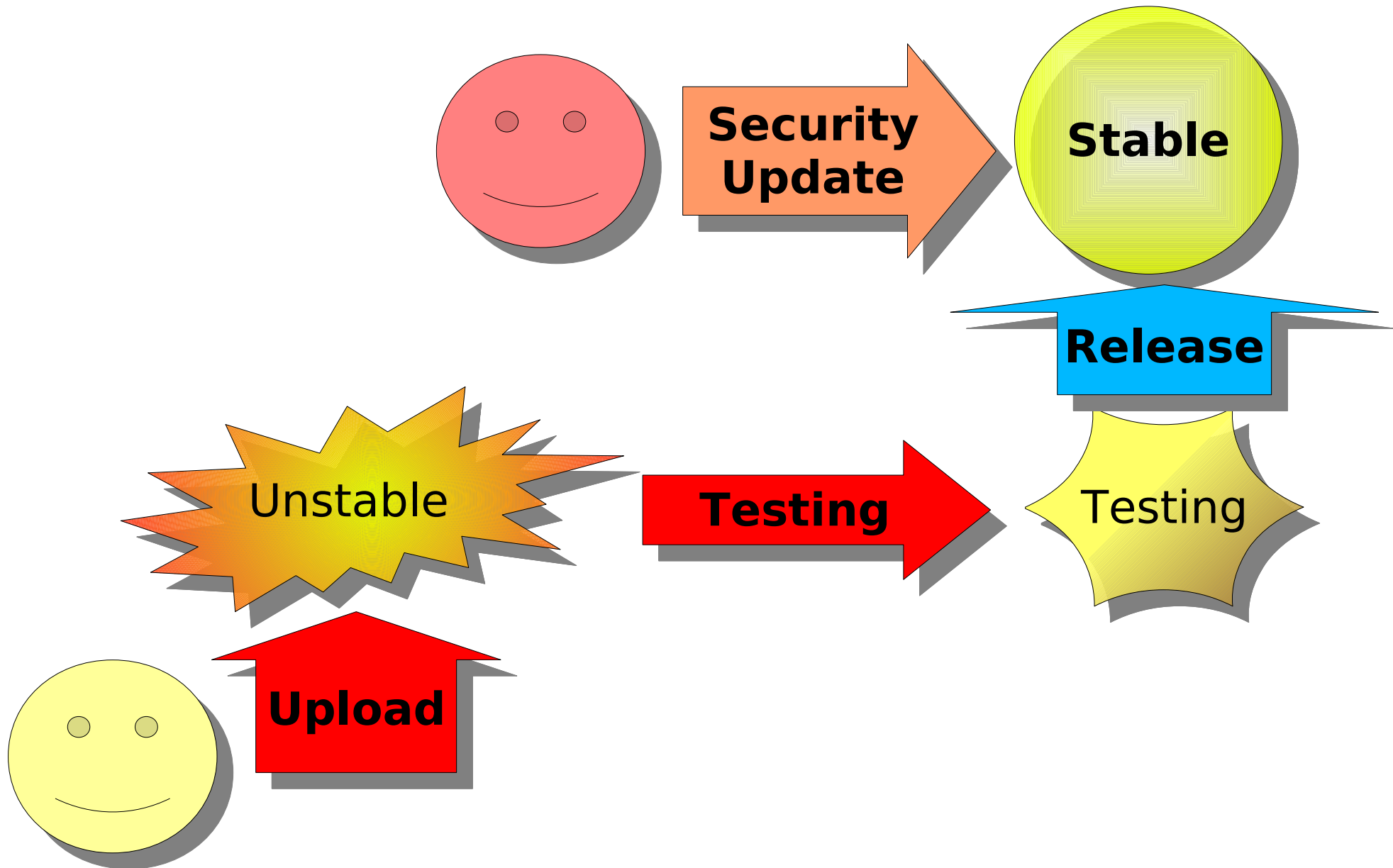




# Why Debian?

- 100% Free (follows Debian Free Software Guidelines)
- Supports lots of architectures
- Huge number of supported software
- High quality
- System easy to maintain
- Reliable and secure
- Smooth upgrade

# Debian Release Cycle



# Debian Stable “Features”

- Rock solid
  - “Look, this is Debian. They don't release things until you have to fire rockets at the thing to stop it from working.” (Slashdot quote)
- Outdated
  - “Debian releases are out of date the minute they are published” (common prejudice)

# What's new in Etch

- Linux kernel 2.6.18
- 6,500 new packages and 10,700 updated
- Graphical Installer
- Installer supports encrypted filesystem
- Secure APT
- SELinux is now installed by default, but not enabled
- Default encoding is UTF-8

# What's new in Etch

- Multi-arch CDs and DVDs
  - i386+amd64+powerpc
  - alpha+hppa+ia64
- Gnome as the default desktop environment
- Also provides KDE and Xfce installation CDs
- Graphical update manager
- Firefox renamed to Iceweasel
- Thunderbird renamed to Icedove

# How to get it?

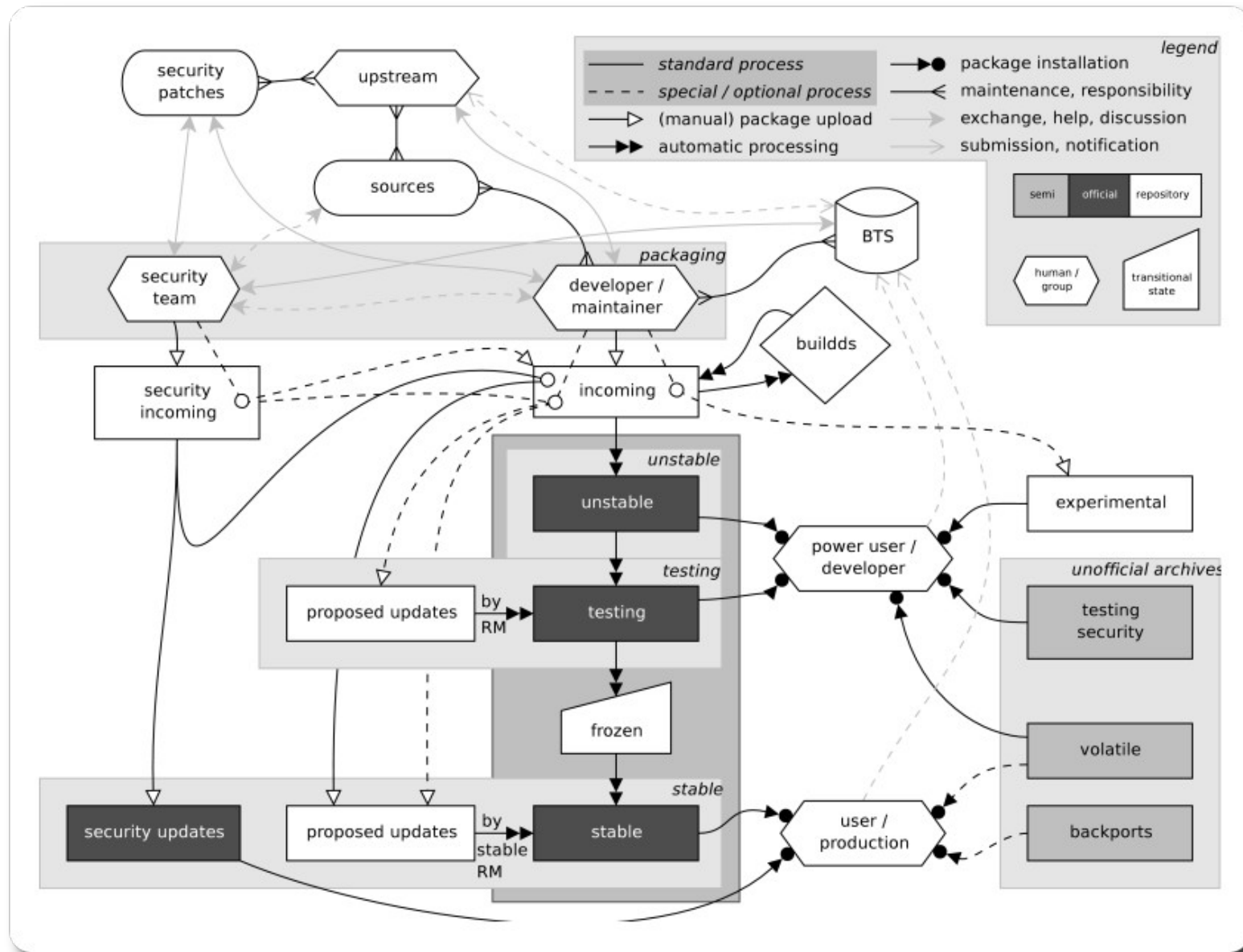
**Bittorrent is highly recommended**

[http://cdimage.debian.org/debian-cd/4.0\\_r0/i386/bt-cd/](http://cdimage.debian.org/debian-cd/4.0_r0/i386/bt-cd/)

[http://cdimage.debian.org/debian-cd/4.0\\_r0/multi-arch/bt-cd/](http://cdimage.debian.org/debian-cd/4.0_r0/multi-arch/bt-cd/)

**More info: <http://www.debian.org/CD/>**

# Debian Package Cycle



# Debian Philosophy

- Packages under “**main**” should comply with Debian Free Software Guidelines (DFSG)
- “**non-free**” for packages not DFSG compliant
- “**contrib**” for packages which DFSG compliant but depend on non-free software.



# Debian Repositories

- Debian Official

```
deb http://www.hk.debian.org/debian stable main contrib non-free
```

- Debian Security

```
deb http://security.debian.org/ etch/updates main
```

- Debian Volatile

```
deb http://volatile.debian.org/debian-volatile  
etch/volatile main contrib non-free
```

- Unofficial Debian Multimedia

```
deb http://www.hk.debian.org/unofficial/debian-multimedia/ etch main
```

- Unofficial Debian Backports

```
deb http://www.backports.org/debian etch-backports main contrib non-  
free
```

Q & A

Thank you!