# GNU/Linux

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# GNU Project

**In 1983, Richard Stallman started the GNU project with the goal of creating a free UNIX-like operating system.**

- Free Software
  - The freedom to run the program as you wish, for any purpose (freedom 0).
  - The freedom to study how the program works, and adapt it to your needs (freedom 1). Access to the source code is a precondition for this.

    The freedom to redistribute copies so you can help your neighbor (freedom 2).
  - The freedom to improve the program, and release your improvements to the public, so that the whole community benefits (freedom 3). Access to the source code is a precondition for this.

Free software puts its users in control of their own computing.
Nonfree software puts its users under the power of the software's developer.

# History of Unix/Linux

- Linux was introduced by Linus Torvalds, a student in Finland(1991).

  Hello everybody out there using minix -

  I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones. This has been brewing since april, and is starting to get ready. I'd like any feedback on things people like/dislike in minix, as my OS resembles it somewhat (same physical layout of the file-system (due to practical reasons) among other things).

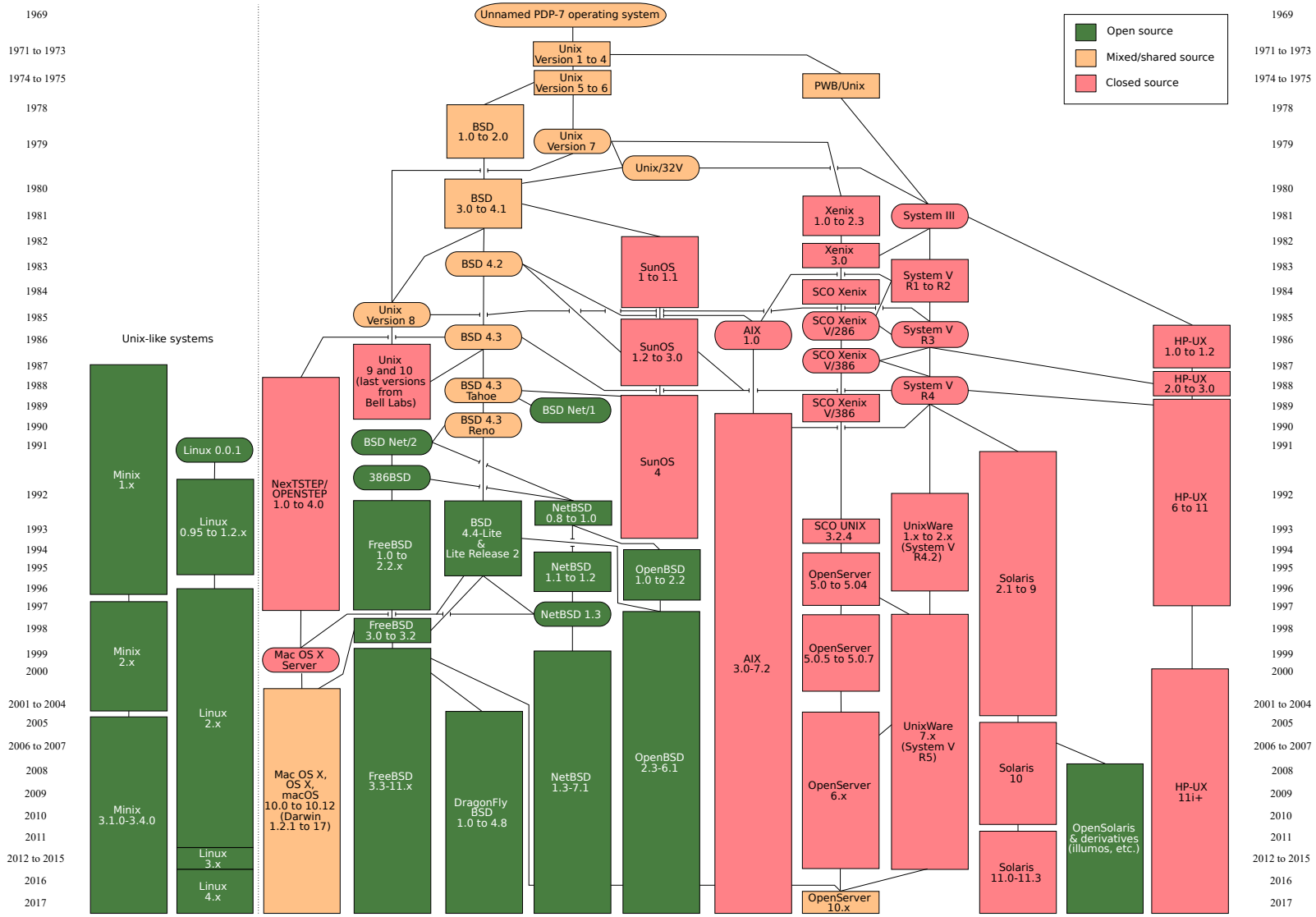
  I've currently ported bash(1.08) and gcc(1.40), and things seem to work. This implies that I'll get something practical within a few months, and I'd like to know what features most people would want. Any suggestions are welcome, but I won't promise I'll implement them :-)

  Linus (torvalds@kruuna.helsinki.fi)

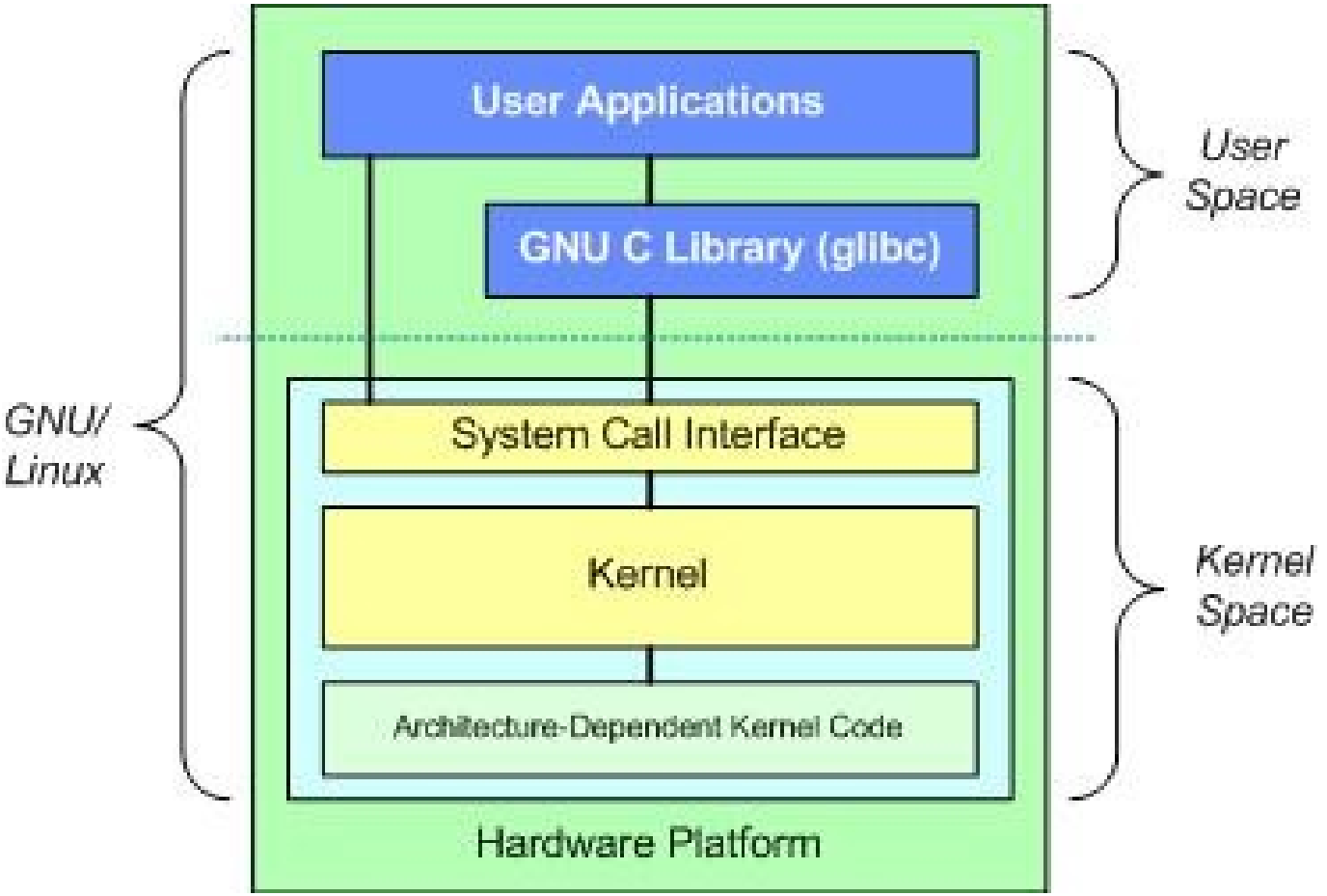
  PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT portable (uses 386 task switching etc), and it probably never will support anything other than AT-harddisks, as that's all I have :-(.

  — Linus Torvalds

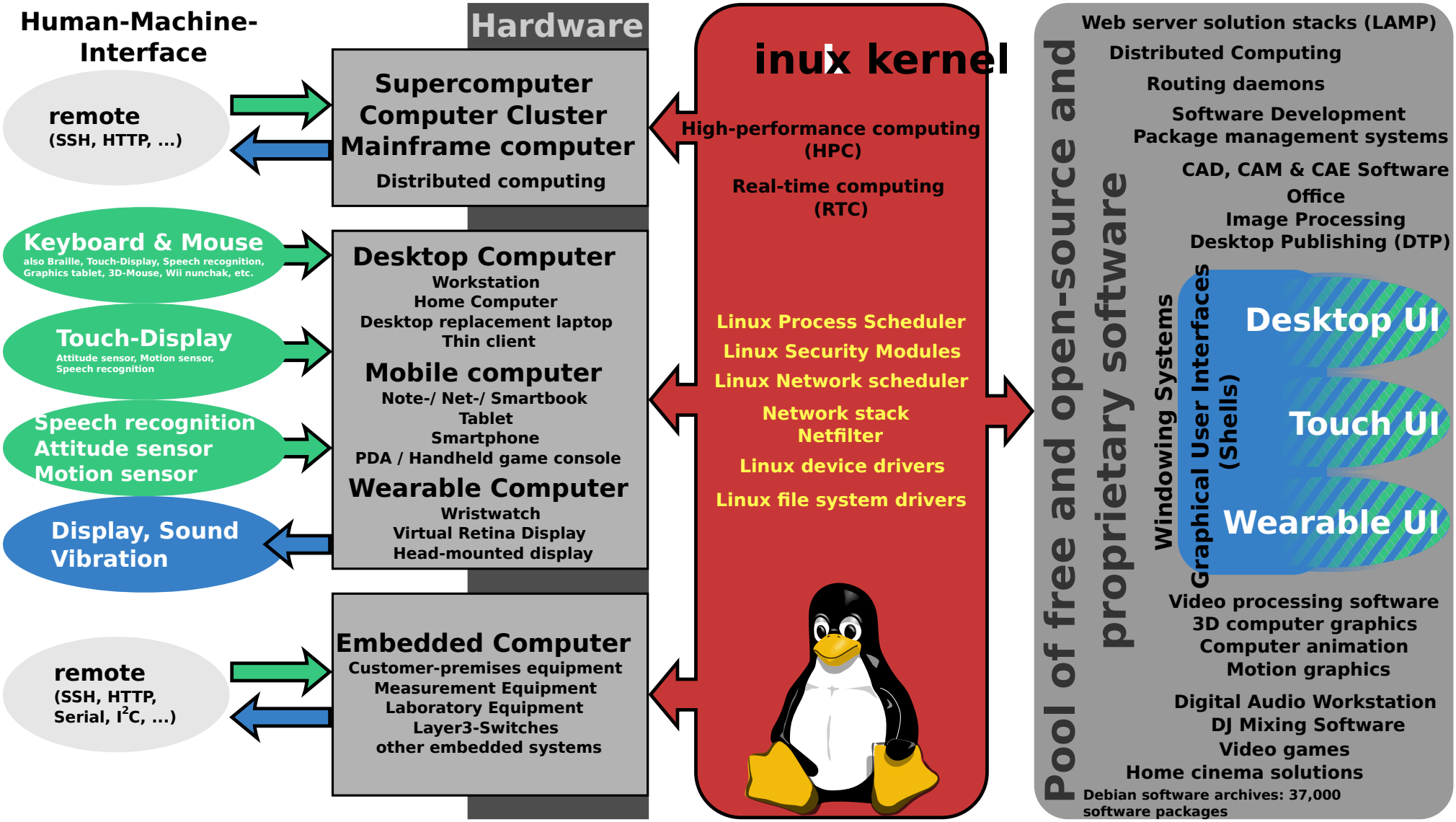
# History of Unix/Linux...



# GNU and Linux



# Distributions



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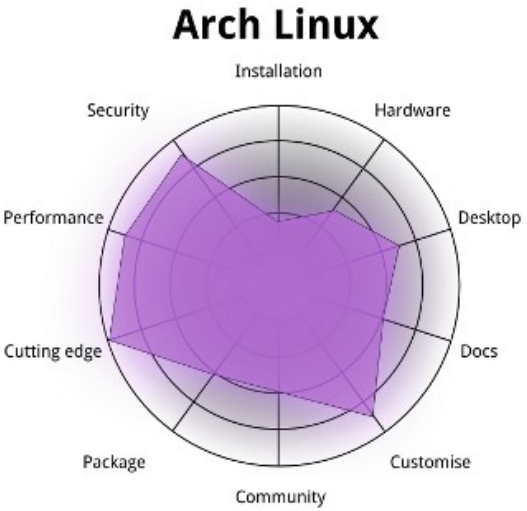
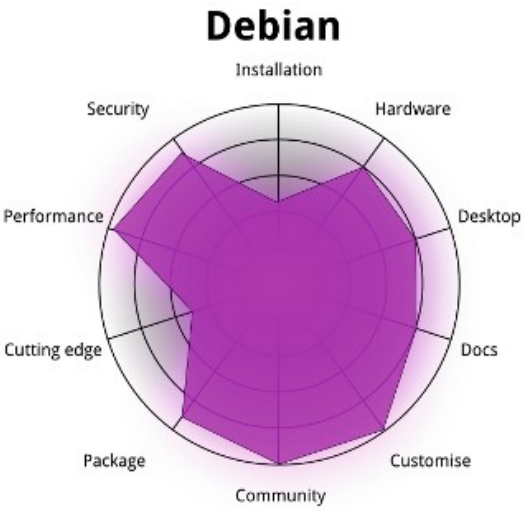
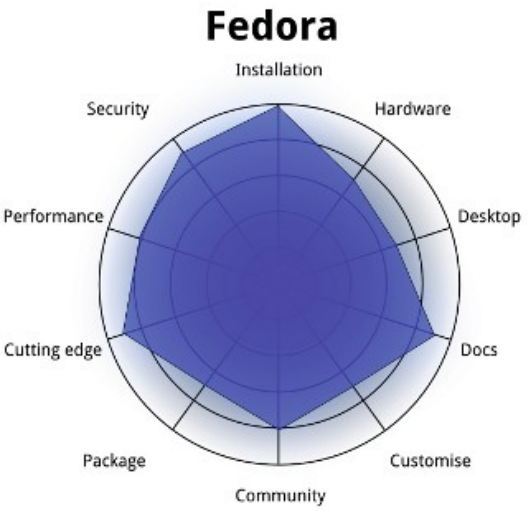
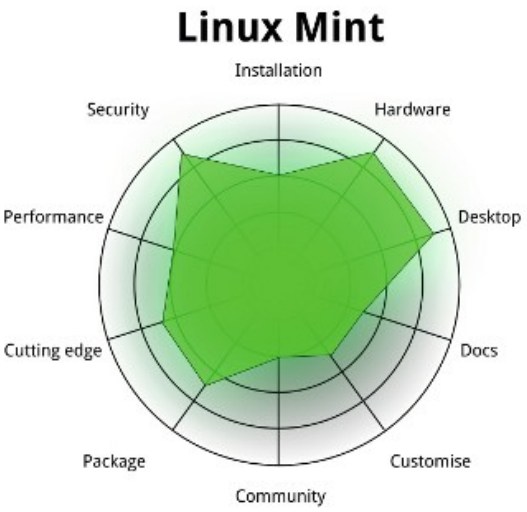
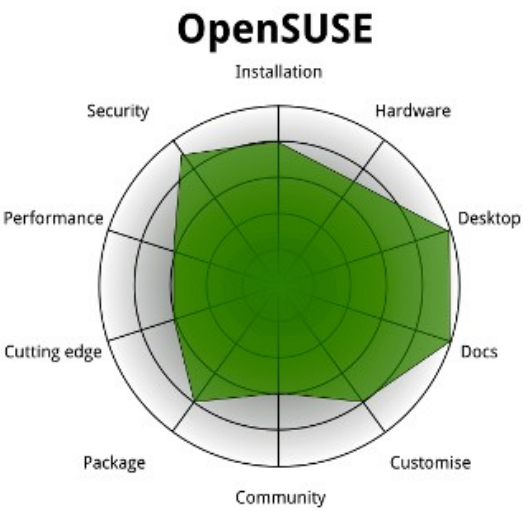
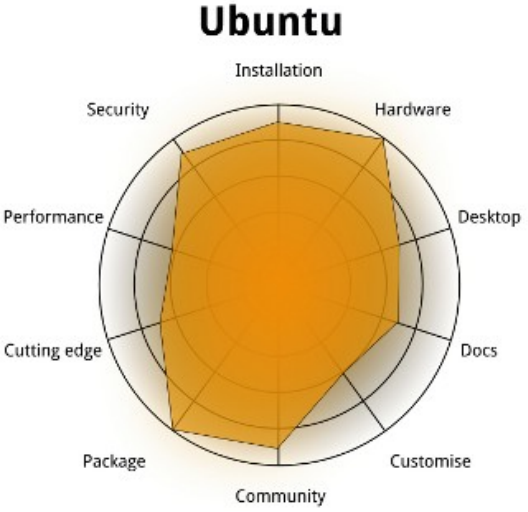


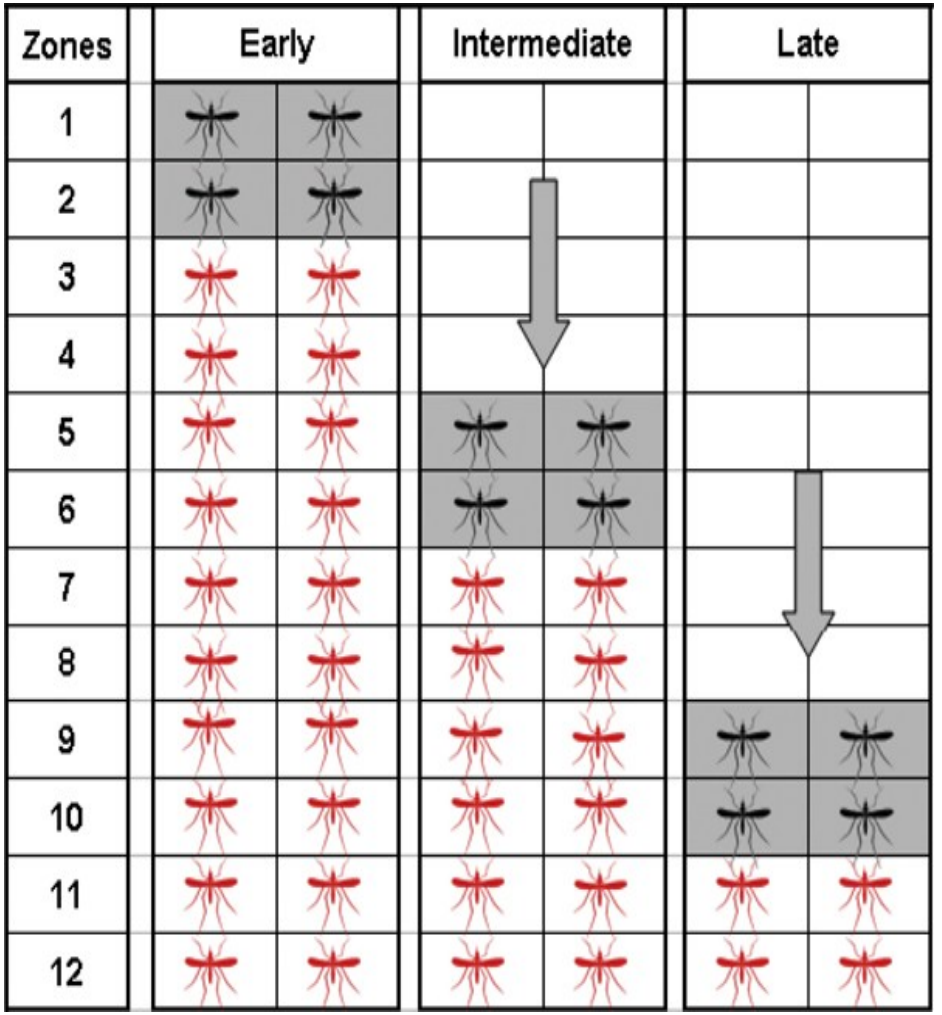



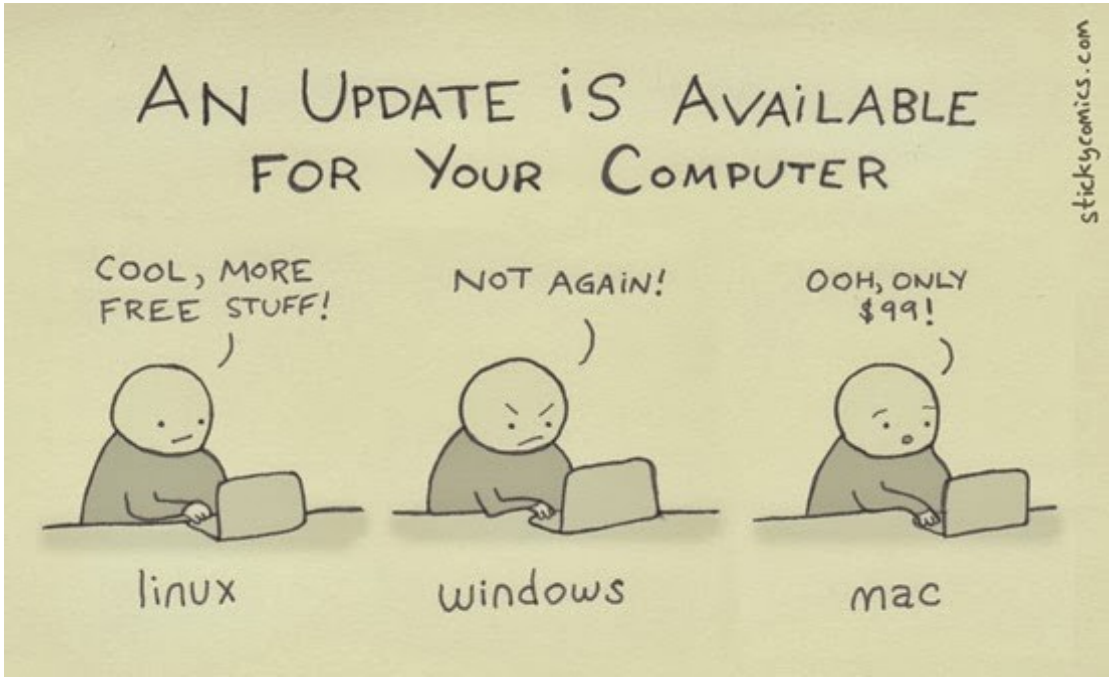
# Rolling or Point Release

- Full-rolling
  - Arch, Gentoo, ...
- Part-rolling
  - Fedora, Ubuntu, ...



# Why GNU/Linux is Better Than Windows/Mac?

- Open Source Nature
- Secure
- Can revive older computers
- Perfect For Programmers
- Software Updates
- Customization
- Variety Of Distributions
- Free to Use
- Better Community Support
- Reliability
- Privacy



# General Tools

- Browsers
  - Firefox
  - Chromium
- Download Managers
  - Persepolis
  - uGet
  - Xtreme Download Manager (XDM)

# General Tools...

- Cloud Storage
  - Owncloud
  - Nextcloud
- Office suite
  - LibreOffice
  - OpenOffice
  - Calligra

# General Tools...

- Music Player
  - Lollypop
  - Rhythmbox
- Video Player
  - VLC
  - Totem
  - Kodi

# General Tools...

- Photo Editor
  - GIMP
  - Krita
- Vector Graphics Editor
  - Inkscape
- Text Editor
  - Vim
  - Emacs
  - Atom

# Statistical tools

- R
- KNIME
- Octave
- Maxima
- Python
- PSPP

# Installation

```
dd if=/path/to/iso of=/dev/sdXY conv=sync bs=1M
status=progress
```

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ubuntu