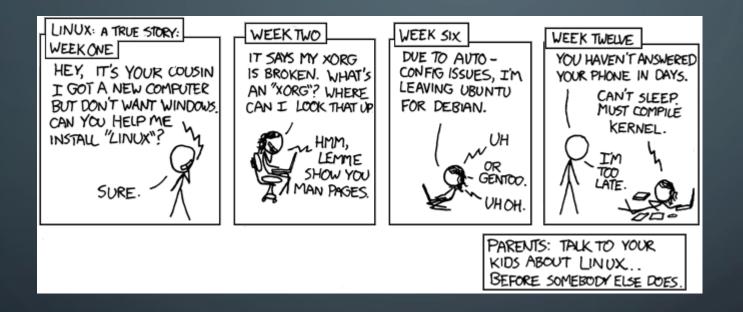
ABOUT LINUX AND DISTRIBUTIONS

THE BIRDS AND THE BEES



• Source: xkcd.com

LINUX DISTRIBUTIONS

- In order to be called "Linux", a distribution must have the Linux kernel
- Each usually has some kind of package management system in order to install software
- There are 1000's of distributions out there
- You can create your own, if you would like http://www.linuxfromscratch.org/
- Distributions may include, including the kernel:
 - Open source tools and libraries
 - Window Manager
 - Desktop environment
- While most Linux distributions are open source, some are paid for due to support and proprietary software

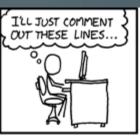
LINUX DISTRIBUTIONS — HOW TO DECIDE

- What Linux distribution is best?
 - Really, which Linux distro is best for me?
- Does the distribution have support?
 - Is there paid support?
 - Is there a large user support community?
- Does the distribution stay up to date on packages?
 - Do they stay up to date on security patches?
- How difficult is the distribution to use?
 - Will my coworkers hate me for picking it?

LINUX DISTRIBUTIONS — MAJOR

- Distrowatch.com has a lot of information about distribution
- Major distribution include:
 - Redhat
 - Fedora, CentOS, Scientific
 - Debian
 - Ubuntu, Knoppix, Mint
 - openSUSE
 - Arch
 - Gentoo
 - Slackware

DISTRIBUTIONS COMIC









IN THE RUSH TO CLEAN
UP THE DEBIAN-OPENSSL
FIASCO, A NUMBER OF OTHER
MAJOR SECURITY HOLES
HAVE BEEN UNCOVERED:

AFFECTED SYSTEM

SECURITY PROBLEM

313161	SECONTY TROBLET
FEDORA CORE	VULNERABLE TO CERTAIN DECODER RINGS
XANDROS (EEE PC)	GIVES ROOT ACCESS IF ASKED IN STERN VOICE
GENTOO	VULNERABLE TO FLATTERY
OLPC 05	VULNERABLE TO JEFF GOLDBLUM'S POWERBOOK
SLACKWARE	GIVES ROOT ACCESS IF USER SAYS ELVISH WORD FOR "FRIEND"
UBUNTU	TURNS OUT DISTRO IS ACTUALLY JUST WINDOWS VISTA WITH A FEW CUSTOM THEMES

LINUX DISTRIBUTIONS — CUSTOM EXAMPLES

- Phones Android
- Routers ddWRT
- Security Kali
- IoT Nest, Raspberry Pi
- Privacy Tails

CONCLUSION

- Linux distributions have all kinds of different capabilities
- Some are large, some are small
- Some provide great support
- It's really up to the system administrator to decide what distro is right for which purpose