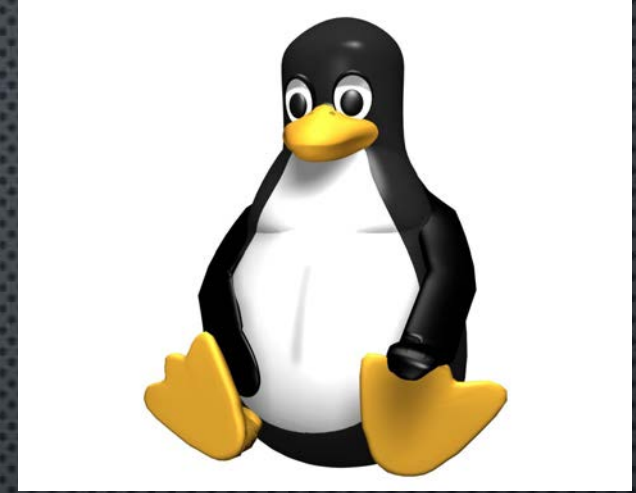


LINUX THE OTHER OPERATING SYSTEM

HHICC

BY: RICHARD WALL

Q: WHAT THE HECK IS "LINUX"?



- SHORT ANSWER: LINUX IS AN OPERATING SYSTEM THAT IS CAPABLE OF RUNNING ON YOUR COMPUTER. IT IS SIMILAR TO MACOS AND WINDOWS
- LONG ANSWER: LINUX IS A UNIX LIKE FREE AND OPEN SOURCE (FOSS) OPERATING SYSTEM THAT CAN BE DOWNLOADED, COPIED, SHARED AND MODIFIED PROVIDED THAT ANY MODIFICATIONS ARE SHARED WITH THE LINUX COMMUNITY. LINUX CAN BE USED TO CREATE SOMETHING NEW EVEN A PAID APP OR SERVICE, AND IT'S CAPABLE OF RUNNING ON A VERY WIDE VARIETY OF DIFFERENT HARDWARE.

Q: WHO CREATED LINUX?

- LINUS TORVALDS CREATED LINUX IN 1991 AS A COMPUTER SCIENCE STUDENT AT THE UNIVERSITY OF HELSINKI.
- LINUX IS A COMBINATION OF HIS NAME AND “UNIX”.
- HE CREATED LINUX AS A RESULT OF NEEDING TO ADDRESS MORE SYSTEM RESOURCES ON HIS SHINY NEW 80386 COMPUTER. MOST OS'ES AT THAT TIME WERE 16BIT AND HE WANTED TO ADDRESS THE FULL 32BITS THAT THE 80386 PROCESSOR WAS CAPABLE OF.



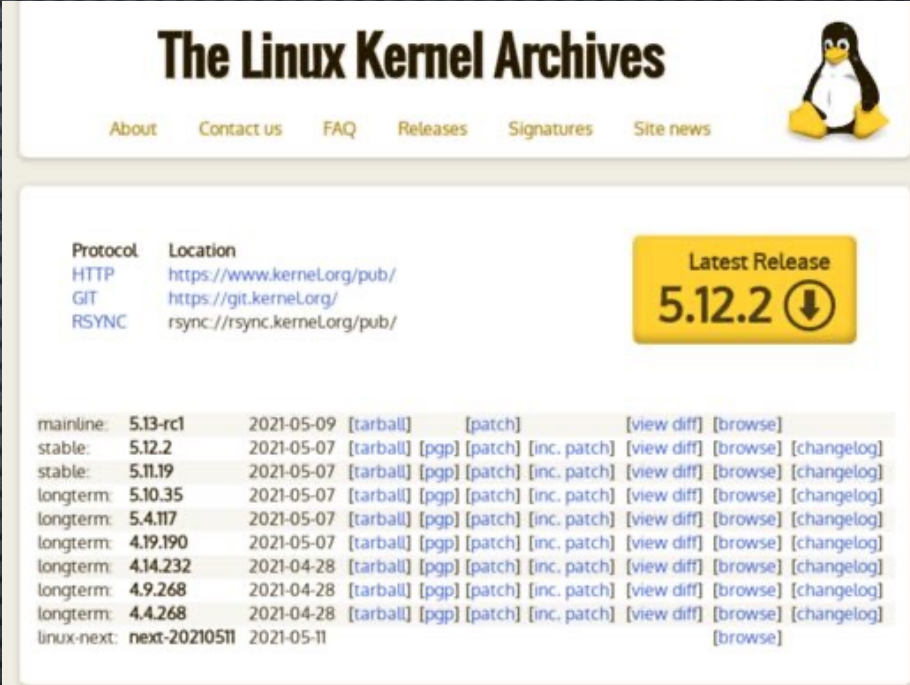
LINUX DISTROS

- DISTROS STANDS FOR SOFTWARE DISTRIBUTIONS.
 - DISTROS ARE MADE BY PEOPLE AND COMPANIES THAT HAVE MADE SOMETHING NEW FROM LINUX.
 - RED HAT, DEBIAN, SLACKWARE ARE ALL “DISTROS”.
- DISTROS OF DISTROS (OF DISTROS).
 - UBUNTU IS A DISTRO OF A DISTRO. IT IS BASED ON DEBIAN.
 - LINUXMINT IS A DISTRO OF A DISTRO OF A DISTRO. IT IS BASE ON UBUNTU WHICH IS BASED ON DEBIAN.
- DISTROS WILL GENERALLY OFFER SOMETHING UNIQUE TO USERS OF THAT DISTRO.
 - RED HAT ENTERPRISE LINUX SUPPORTS EACH OF IT’S MAIN RELEASES FOR 10 YEARS AND IT IS EXTREMELY STABLE.
 - UBUNTU OFFERS A WIDE AMOUNT OF SOFTWARE AVAILABLE AND GOOD HARDWARE SUPPORT.
 - KALI LINUX IS BUILT FOR PENETRATION TESTING.



ON-GOING DEVELOPMENT

- LINUX CONTINUES TO BE DEVELOPED BY THE LINUX COMMUNITY.
- LINUS TORVALDS STILL COMPILES AND RELEASES NEW KERNELS FROM PATCHES THAT ARE SUBMITTED.
- THE KERNEL INTEGRATES CODE THAT HAS BEEN SUBMITTED AND VETTED BY A GROUP OF KERNEL MAINTAINERS, HOWEVER, ANYONE CAN SUBMIT KERNEL PATCHES, BUT THEY MUST BE VETTED BEFORE BEING ADDED TO THE FINAL KERNEL RELEASE.



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5.12.2 ↓

Protocol	Location
HTTP	https://www.kernel.org/pub/
Git	https://git.kernel.org/
RSYNC	rsync://rsync.kernel.org/pub/

mainline:	5.13-rc1	2021-05-09	[tarball]	[patch]	[view diff]	[browse]			
stable:	5.12.2	2021-05-07	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff]	[browse]	[changelog]
stable:	5.11.19	2021-05-07	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff]	[browse]	[changelog]
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linux-next:	next-20210511	2021-05-11						[browse]	

WHERE TO GET LINUX?

- LINUX IS RELEASED BY DISTRIBUTIONS (DISTROS).
- SOME OF THE MORE POPULAR DISTROS ARE:
 - FEDORA (RED HAT)
 - UBUNTU
 - ELEMENTARY OS
 - LINUX MINT
 - OPENSUSE
- MOST DISTROS HAVE SERVER VERSIONS, BUT THESE OFTEN ARE ONLY MINIMAL DOWNLOADS AND DON'T INCLUDE THE GUI USER INTERFACE.



Q: WHAT RUNS LINUX?

- LINUX RUNS ON ALMOST EVERYTHING.
- FROM SUPER COMPUTERS TO OUT OF DATE PC'S.
- MANY IOT (INTERNET OF THINGS) DEVICE.
- MANY CAR INFOTAINMENT SYSTEMS.
- MOBILE PHONES.
- NASA'S MARS DRONE INGENUITY.
- MOST WEB SERVERS.



YOU MAY ALREADY BE USING LINUX.

- YOU ARE ALREADY USING LINUX IF YOU HAVE A:
 - ANDROID PHONE.
 - ROKU DEVICE.
 - AMAZON FIRE OR KINDLE DEVICE.
 - GOOGLE CHROME ANYTHING.
- 23 OF 33 DEVICES ON MY HOME NETWORK ARE LINUX POWERED DEVICES.



INSTALLING LINUX

- DOWNLOAD A DISTRO .ISO:
 - UBUNTU (LATEST AS OF MAY 2021 UBUNTU 21.04) [HTTPS://UBUNTU.COM/](https://ubuntu.com/)
 - FEDORA (LATEST AS OF MAY 2021 FEDORA 34) [HTTPS://GETFEDORA.ORG/](https://getfedora.org/)
 - ELEMENTARY OS - [HTTPS://ELEMENTARY.IO/](https://elementary.io/)
 - ROCKY LINUX - [HTTPS://ROCKYLINUX.ORG/](https://rockylinux.org/) (SERVER DISTRO)
- BURN THAT ISO TO A USB STICK OR A CD
 - WINDOWS:
 - [HTTPS://RUFUS.IE/EN_US/](https://rufus.ie/en_us/)
 - [HTTPS://WWW.PENDRIVELINUX.COM/UNIVERSAL-USB-INSTALLER-EASY-AS-1-2-3/](https://www.pendrivelinux.com/universal-usb-installer-easy-as-1-2-3/)
 - MACOS:
 - [HTTPS://WWW.UUBYTE.COM/DOWNLOAD/UUBYTE-ISO-EDITOR.DMG](https://www.uubyte.com/download/uubyte-iso-editor.dmg)
 - [HTTPS://GETFEDORA.ORG/EN/WORKSTATION/DOWNLOAD/](https://getfedora.org/en/workstation/download/) (DOWNLOAD MEDIA WRITER)

