

TODD MCDANIEL
MAC GROUP, CLIENT PLATFORM SERVICES, MARRIOTT LIBRARY

WHAT'S NEW?



IPHONE 11

- ▶ A13 Bionic CPU
- ▶ Ultra-wide dual camera system
120° field of view
- ▶ Same slow 5W charger <sigh>
- ▶ slowfies...
- ▶ no 5g yet
- ▶ 64GB, 128GB and 256GB
- ▶ from \$699, \$399 with trade-in
- ▶ September 20



IPHONE 11 PRO/PRO MAX

- ▶ A13 Bionic CPU
- ▶ Triple camera system (telephoto, wide and ultrawide)
- ▶ 18W charger <yay!>
- ▶ Spatial audio
- ▶ longer battery life
- ▶ 64GB, 256GB and 512GB
- ▶ from \$999/\$1099, less with trade-in
- ▶ September 20



IPAD

- ▶ 7th generation iPad
- ▶ Larger 10.2" screen
- ▶ A10 Fusion
- ▶ Pencil and keyboard support
- ▶ 32GB and 128GB
- ▶ from \$329 (wifi), \$459 (cellular)



APPLE WATCH SERIES 5

- ▶ Always on display
- ▶ Compass
- ▶ from \$399
- ▶ September 20
- ▶ Series 3 still available



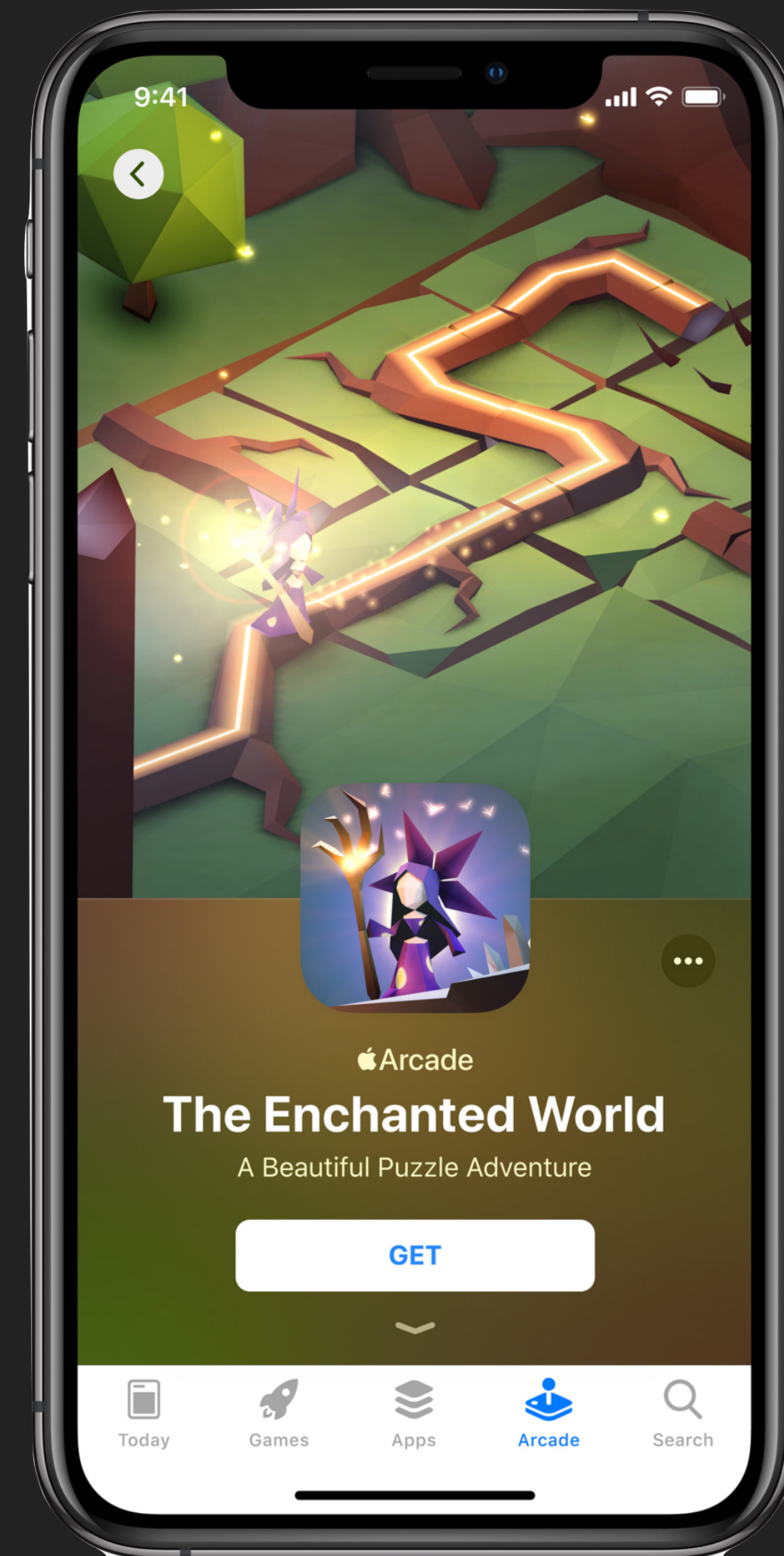
APPLE TV+

- ▶ November 1
- ▶ 1 year of service included with new devices
- ▶ \$4.99 per month



APPLE ARCADE

- ▶ September 19
- ▶ \$4.99 per month



WHEN ALREADY?!?

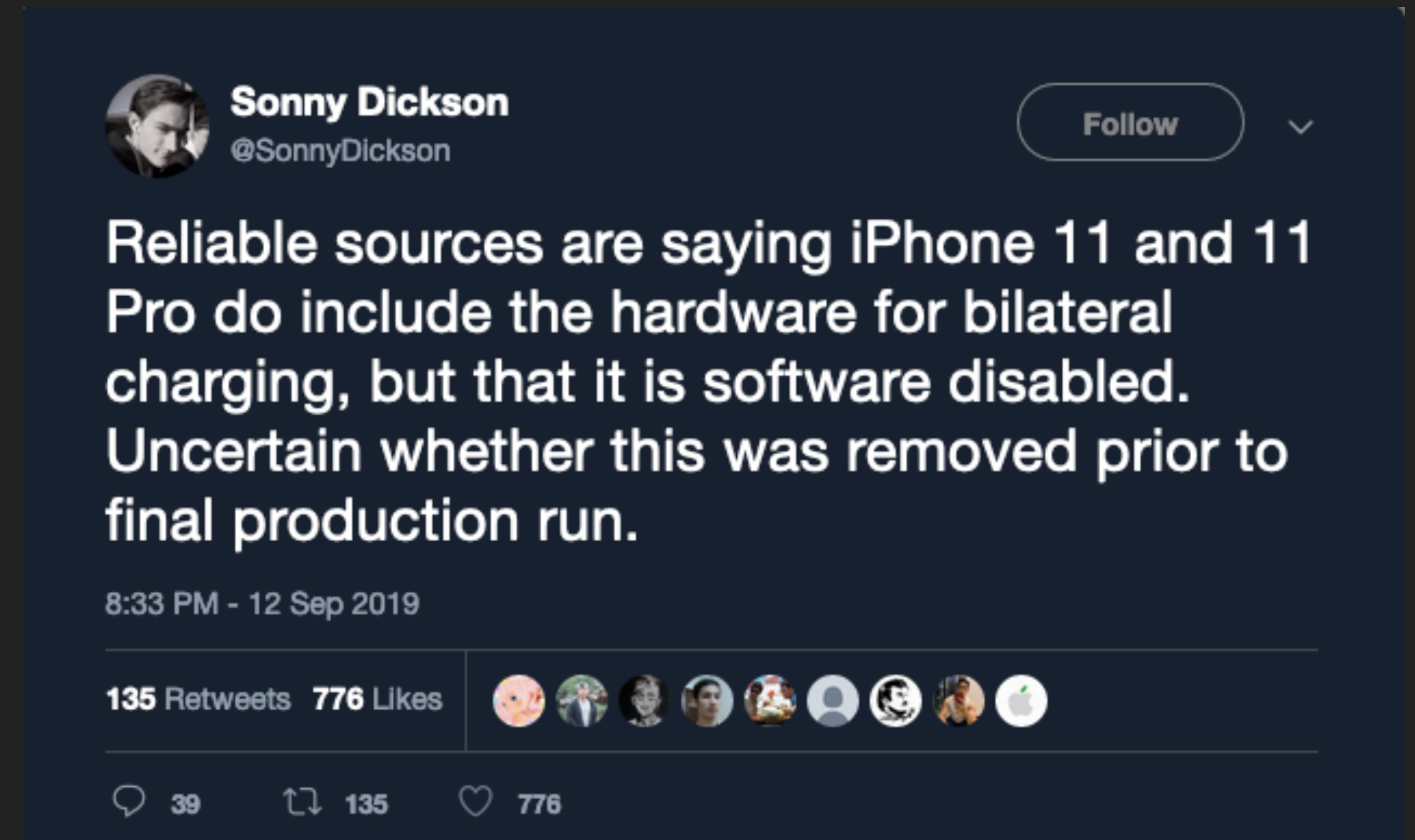
OS	Estimated release date
macOS 10.15 Catalina	end of October?
iOS 13/13.1	September 19/September 30
iPadOS 13	September 30
watchOS 6	September 19
tvOS 13	September 19?

U1 CHIP, ULTRA WIDE BAND

- ▶ <https://mjtsai.com/blog/2019/09/13/the-apple-u1-chip-in-iphone-11/>
- ▶ <https://sixcolors.com/post/2019/09/the-u1-chip-in-the-iphone-11-is-the-beginning-of-an-ultra-wideband-revolution/>
- ▶ <https://www.wired.com/story/apple-u1-chip/>

2-WAY CHARGING HARDWARE IN IPHONE 11?

- ▶ <https://www.macrumors.com/2019/09/13/iphone-11-two-way-charging-software-disabled/>
- ▶ <https://daringfireball.net/linked/2019/09/13/dickson-iphone-11-charging>
"And I've been told by a reliable little birdie that in years past Apple has shipped hardware that wound up *never* enabled in software."
- ▶ Waiting for an iFixit teardown...



APPLE INDEPENDENT REPAIR PROVIDER PROGRAM

- ▶ "Apple will provide more independent repair businesses – large or small – with the same genuine parts, tools, training, repair manuals and diagnostics as its Apple Authorized Service Providers (AASPs)."
- ▶ <https://support.apple.com/irp-program/>
- ▶ <https://support.apple.com/en-us/HT205332>

GOOGLE ZERO EXPOSES IOS EXPLOIT

- ▶ <https://googleprojectzero.blogspot.com/2019/08/a-very-deep-dive-into-ios-exploit.html>
- ▶ <https://mjtsai.com/blog/2019/09/05/significant-ios-vulnerabilities-used-against-uyghur-muslims-in-china/>
- ▶ <https://www.apple.com/newsroom/2019/09/a-message-about-ios-security/>
- ▶ <https://mjtsai.com/blog/2019/09/06/apple-responds-to-project-zero/>
- ▶ <https://arstechnica.com/information-technology/2019/09/for-the-first-time-ever-android-0days-cost-more-than-ios-exploits/>

ANOTHER IOS 13 EXPLOIT

- ▶ <https://www.theverge.com/2019/9/13/20863993/ios-13-exploit-lockscreens-bypass-security>
- ▶ <https://appleinsider.com/articles/19/09/12/complex-ios-13-exploit-allows-viewing-of-contacts-without-unlocking-iphone>
- ▶ Fixed in iOS 13.1?

CHANGES TO SIRI LISTENING HABITS

- ▶ Eliminated human review of recordings in July
- ▶ <https://www.apple.com/newsroom/2019/08/improving-siris-privacy-protections/>
- ▶ <https://arstechnica.com/tech-policy/2019/08/apple-will-stop-storing-your-siri-voice-recordings-by-default/>

THIRTY YEARS OF FETCH

- ▶ <https://fetchsoftworks.com/fetch/news/thirty-years-of-fetch>
- ▶ <https://fetchsoftworks.com/fetch/free>
- ▶ <https://daringfireball.net/linked/2019/09/03/30-years-of-fetch>
"And speaking of Macworld, [the December 1988 edition](#) cited in several instances above was so chockablock with ads that it ran **324 pages**."



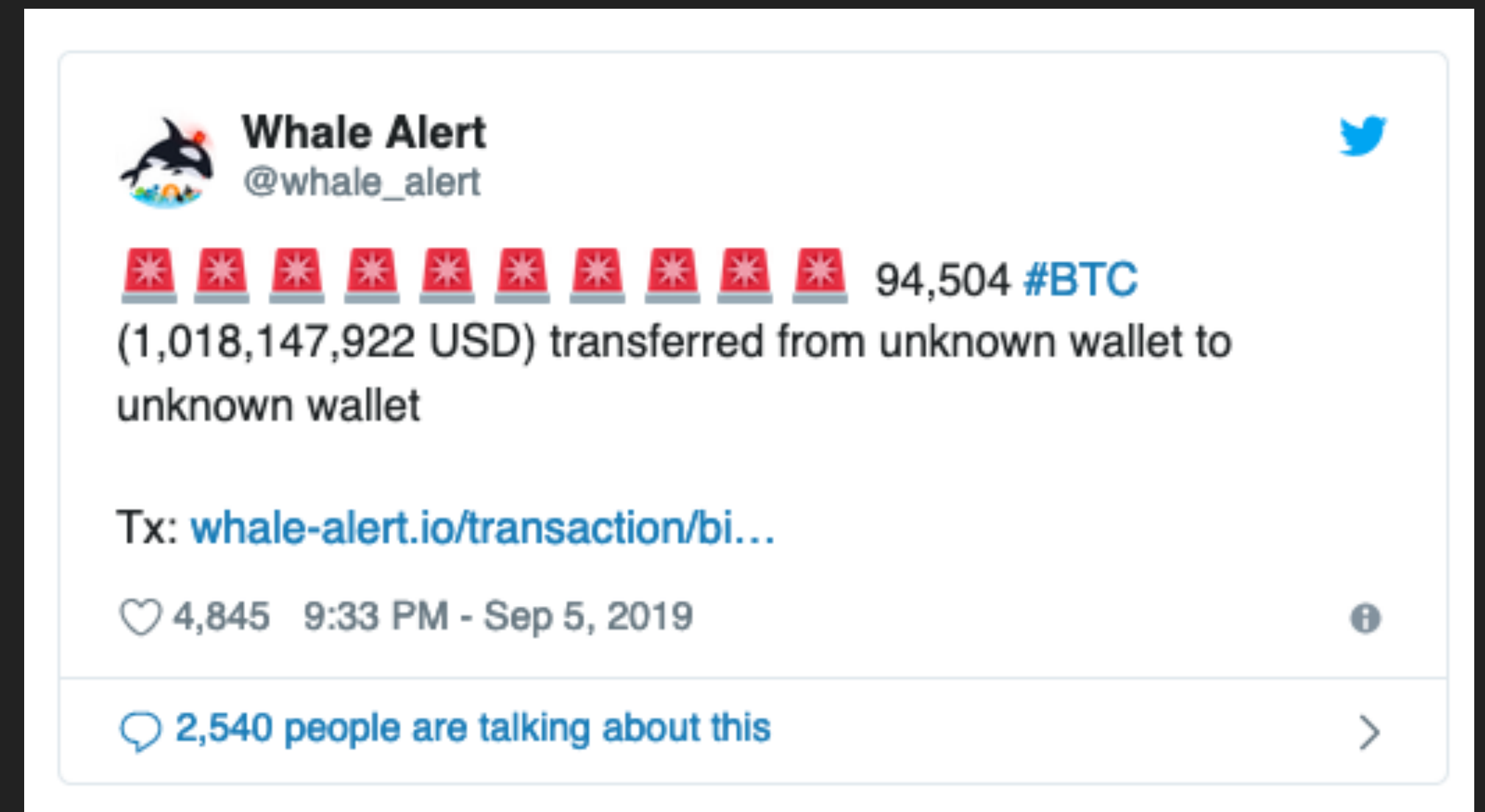
UNIX TURNS 50

- ▶ Led by Ken Thompson (seated) and Dennis Ritchie
- ▶ <https://en.wikipedia.org/wiki/Unix>
- ▶ Originally called Unics (Uniplexed Information and Computing Service)
- ▶ Little agreement over who came up with the changed spelling



BILLION DOLLAR BITCOIN TRANSACTION

- ▶ <https://arstechnica.com/tech-policy/2019/09/someone-moved-1-billion-in-a-single-bitcoin-transaction/>
- ▶ Singapore currency exchange?
- ▶ 149,993 BTC in 2013 (~\$147m)
- ▶ 550,000 BYC in 2011 (~\$1.5m)



CHROMEBOOKS HAVE AN EXPIRATION DATE, WHO KNEW?

- ▶ <https://arstechnica.com/gadgets/2019/09/some-chromebooks-mistakenly-declared-themselves-end-of-life-last-week/>
- ▶ <https://support.google.com/chromebook/answer/9367166?hl=en>
- ▶ <https://chrx.org/>

WI-FI 6, AKA 802.11AX

- ▶ <https://www.wi-fi.org/discover-wi-fi/wi-fi-certified-6>
- ▶ <https://arstechnica.com/gadgets/2019/09/say-hello-to-802-11ax-wi-fi-6-device-certification-begins-today/>
- ▶ <https://arstechnica.com/gadgets/2019/03/802-eleventy-who-goes-there-wpa3-wi-fi-security-and-what-came-before-it/>



NETCAT, NETWORK CACHE ATTACK

- ▶ <https://www.vusec.net/projects/netcat/>
- ▶ DDIO, Data-Direct I/O
- ▶ <https://software.intel.com/security-software-guidance/insights/more-information-netcat>
- ▶ https://www.schneier.com/blog/archives/2019/09/another_side_ch.html

PYTHON 2

- ▶ <https://www.python.org/doc/sunset-python-2/>
- ▶ <https://pythonclock.org/>
- ▶ <https://mjtsai.com/blog/2019/09/12/sunsetting-python-2/>
- ▶ <https://docs.python.org/3/howto/pyporting.html>
- ▶ <https://realpython.com/lessons/main-differences-between-python-2-and-python-3/>
- ▶ <https://www.fullstackpython.com/python-2-or-3.html>
- ▶ https://python-future.org/compatible_idioms.html
- ▶ https://www.digitalocean.com/community/tutorial_series/how-to-code-in-python-3



ZSH

- ▶ Default shell for macOS 10.15 Catalina
- ▶ <https://support.apple.com/en-us/HT208050>
- ▶ <http://www.zsh.org/>
- ▶ <https://github.com/robbyrussell/oh-my-zsh/wiki/Installing-ZSH>
- ▶ <https://ohmyz.sh/>

```
u0942941@t-mcdaniel-mac ~$ cd gitlab/xmlmetamerge
u0942941@t-mcdaniel-mac ~/gitlab/xmlmetamerge$ master$ dir
total 488
drwxr-xr-x@ 11 u0942941 staff   352 Sep 20 2018 ./
drwxr-xr-x@  6 u0942941 staff   192 Sep 20 2018 ../
-rw-r--r--@  1 u0942941 staff  8196 Sep 20 2018 .DS_Store
drwxr-xr-x@ 12 u0942941 staff   384 Sep 17 10:30 .git/
-rw-r--r--@  1 u0942941 staff    13 Sep 20 2018 README.md
drwx-----@ 33 u0942941 staff  1056 May 11 2018 icon/
drwx-----@ 15 u0942941 staff   480 Apr 12 2018 logo/
-rw-r--r--@  1 u0942941 staff  2794 Feb 27 2018 notes.txt
-rw-r--r--@  1 u0942941 staff   816 Sep 20 2018 setup.py
-rw-r--r--@  1 u0942941 staff 194255 Apr 18 2018 xmlMetaMerge.icns
-rw-r--r--@  1 u0942941 staff  28653 Aug 28 2018 xmlMetaMerge_1.0b4.py
u0942941@t-mcdaniel-mac ~/gitlab/xmlmetamerge$ master$ return 127
u0942941@t-mcdaniel-mac ~/gitlab/xmlmetamerge$ master$
```


Hacktober

FEST

2019

presented by



DigitalOcean

and





COMMENTS, QUESTIONS?

