

What's New?

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MacBook Pro refreshed

- Intel “Coffee Lake” CPUs (up to ~50-70% improved performance)
- 32GB maximum RAM in 15-inch
- Optional 2.9Ghz i9 CPU in 15-inch
- True Tone display (from latest iPhones)
- T2 (Secure Enclave, SMC, SSD controller, Touch Bar, Hey Siri and power switch)
- Quieter keyboard, silicone membrane fixes previous butterfly issues? (More on this in a moment)



MacBook Pro '18 cost

- 2.9GHz, 6-core i9 (~\$300 over base)
- Radeon Pro 560x (4GB) (~\$100)
- 32GB RAM (~\$400)
- 4TB SSD (~\$3300)

Customize your 15-inch MacBook Pro - Space Gray



2.9GHz 6-core 8th-generation Intel Core i9 processor, Turbo Boost up to 4.8GHz

Retina display with True Tone

Touch Bar and Touch ID

Radeon Pro 560X with 4GB of GDDR5 memory

32GB 2400MHz DDR4 memory

4TB SSD storage

Four Thunderbolt 3 ports

Backlit Keyboard - US English

Order today, delivers:

24 - Jul 26 - Fastest

26 - Jul 30 - Free

Shipping on all configurations

\$6,699.00

[Up to 18 months of special financing >](#)

Add to Bag

On the subject of keyboards...

- ❖ Keyboard Service Program for MacBook and MacBook Pro
- ❖ Possibly free keyboard (entire upper case, possibly including a battery) replacement, depending on reasons...
- ❖ MacBooks (2015+) and MB Pros (2016+)
- ❖ <https://www.apple.com/support/keyboard-service-program-for-macbook-and-macbook-pro/>

Blackmagic eGPU

- Sold exclusively through Apple
- \$699
- non-upgradable Radeon Pro 580 (8GB)
- not a traditional enclosure
- no Windows / Bootcamp support



Blackmagic eGPU

- 2 Thunderbolt 3 ports
- 4 USB 3.1 ports
- HDMI 2.0
- 85W of charging power
- ridiculously short Thunderbolt cable



Comparison with a traditional enclosure

- Sonnet eGFX Breakaway Box 350
- Radeon RX 580 (8GB)
- Single Thunderbolt 3 port
- Single PCIe 3.0 slot
- \$549 (Amazon)
- Nvidia GPUs not officially supported by Apple
- <https://support.apple.com/en-us/HT208544>





set-eGPU.sh

Accelerate macOS applications using external graphics.

- ❖ <https://github.com/mayankk2308/set-egpu>
- ❖ “Allows you to set graphics preferences for macOS applications, and force use of external GPUs, even on internal displays.”
- ❖ <https://9to5mac.com/2018/07/01/egpu-acceleration-internal-display-mac-apps-macos-video/>

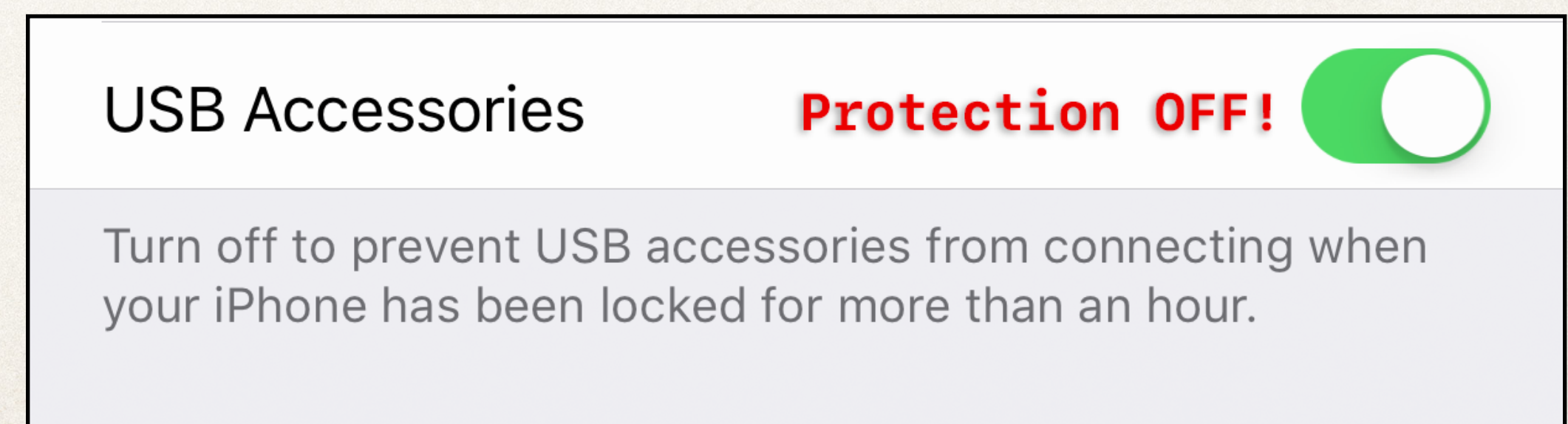
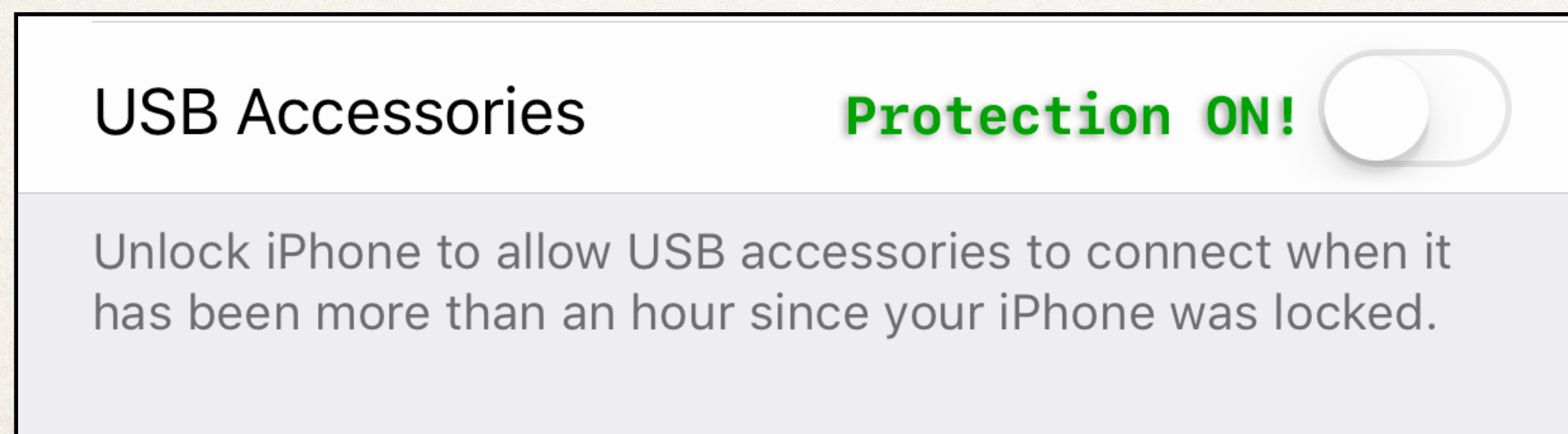
Whither AirPower?

- Due by June
- Now September?
- Difficulties managing multiple charging coils?



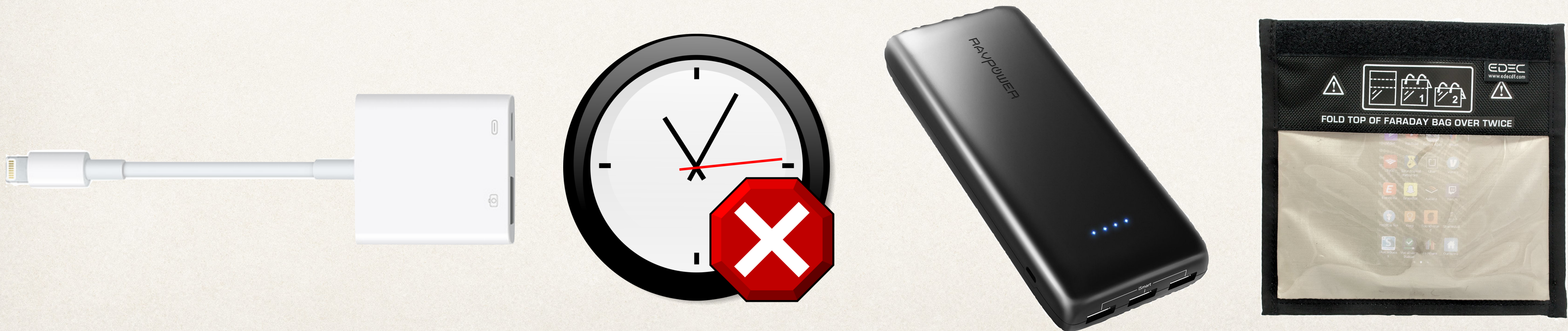
Using USB Restricted mode in 11.4.1

- ❖ **POSSIBLE** protection from Cellebrite and Grayshift Graykey types of devices
- ❖ Should be enabled by default.
- ❖ **Settings, {Face ID or Touch ID} & Passcode**
Enter passcode
Scroll down...



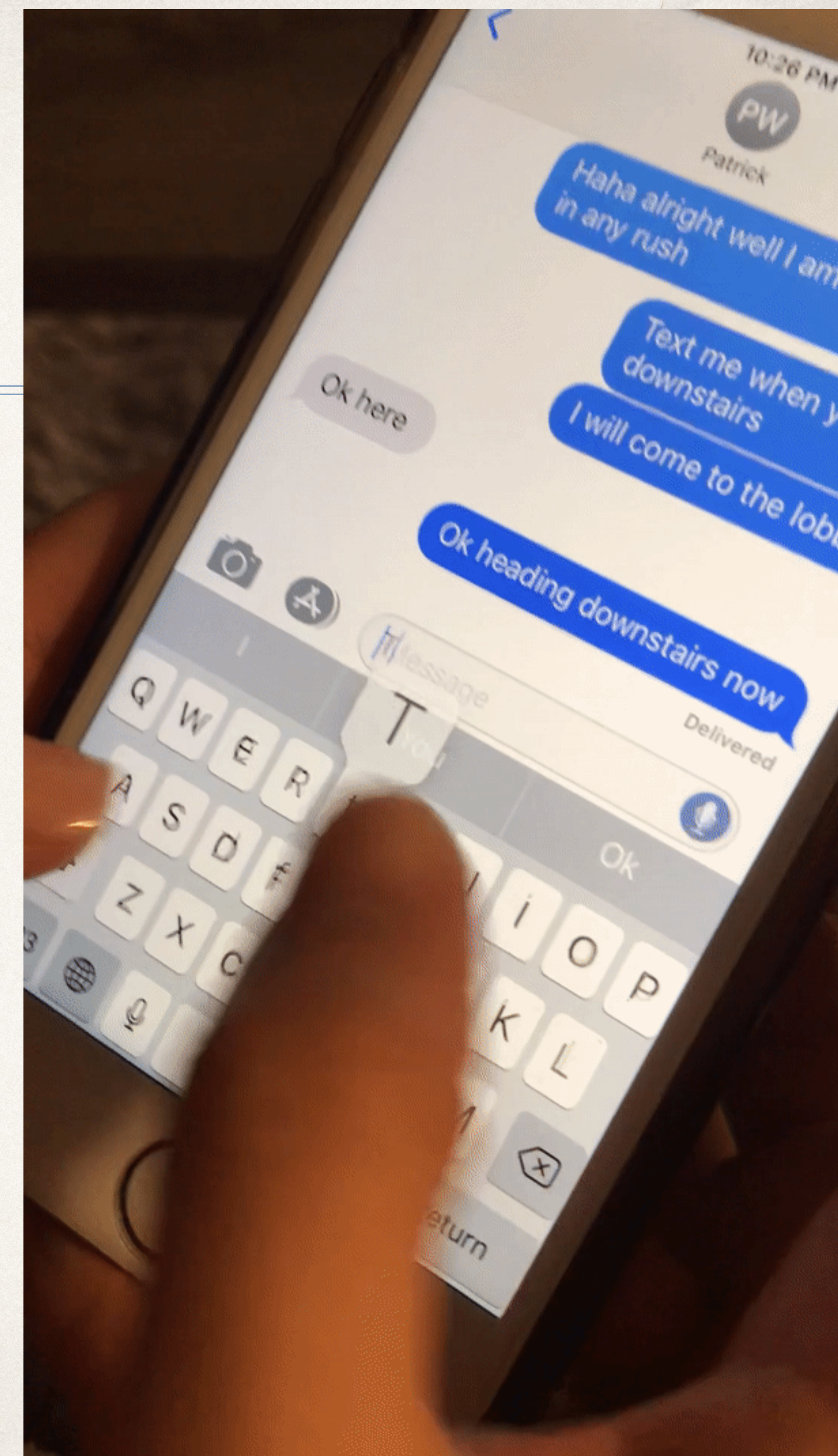
Defeating USB Restricted mode in 11.4.1

- ❖ <https://blog.elcomsoft.com/2018/07/this-9-device-can-defeat-ios-usb-restricted-mode/>
- ❖ <https://blog.elcomsoft.com/2018/07/usb-restricted-mode-inside-out/>



Taiwa... [crash]

- ❖ https://objective-see.com/blog/blog_0x34.html
- ❖ Only affected some “region-less” configurations
- ❖ corrected in iOS 11.4.1



Adobe Photoshop to iPad in 2019

- ❖ <https://www.bloomberg.com/news/articles/2018-07-13/adobe-is-said-to-plan-photoshop-for-ipad-in-app-strategy-shift>
- ❖ <https://arstechnica.com/gadgets/2018/07/adobe-plans-to-bring-full-version-of-photoshop-to-the-ipad-next-year/>
- ❖ Planned debut at Adobe MAX in October.

TLBleed

- ❖ <https://www.vusec.net/projects/tlbleed/>
- ❖ Intel Hyperthreading side-channel vulnerability leveraging the translation look-aside buffer (TLB)
- ❖ processes that share physical cores, but run on different logical cores, can inadvertently leak data to each other
- ❖ OpenBSD is disabling Hyperthreading, by default. Announcement at Black Hat in August
- ❖ <https://arstechnica.com/gadgets/2018/06/tlbleed-a-new-way-to-leak-crypto-keys-on-hyperthreaded-processors/>

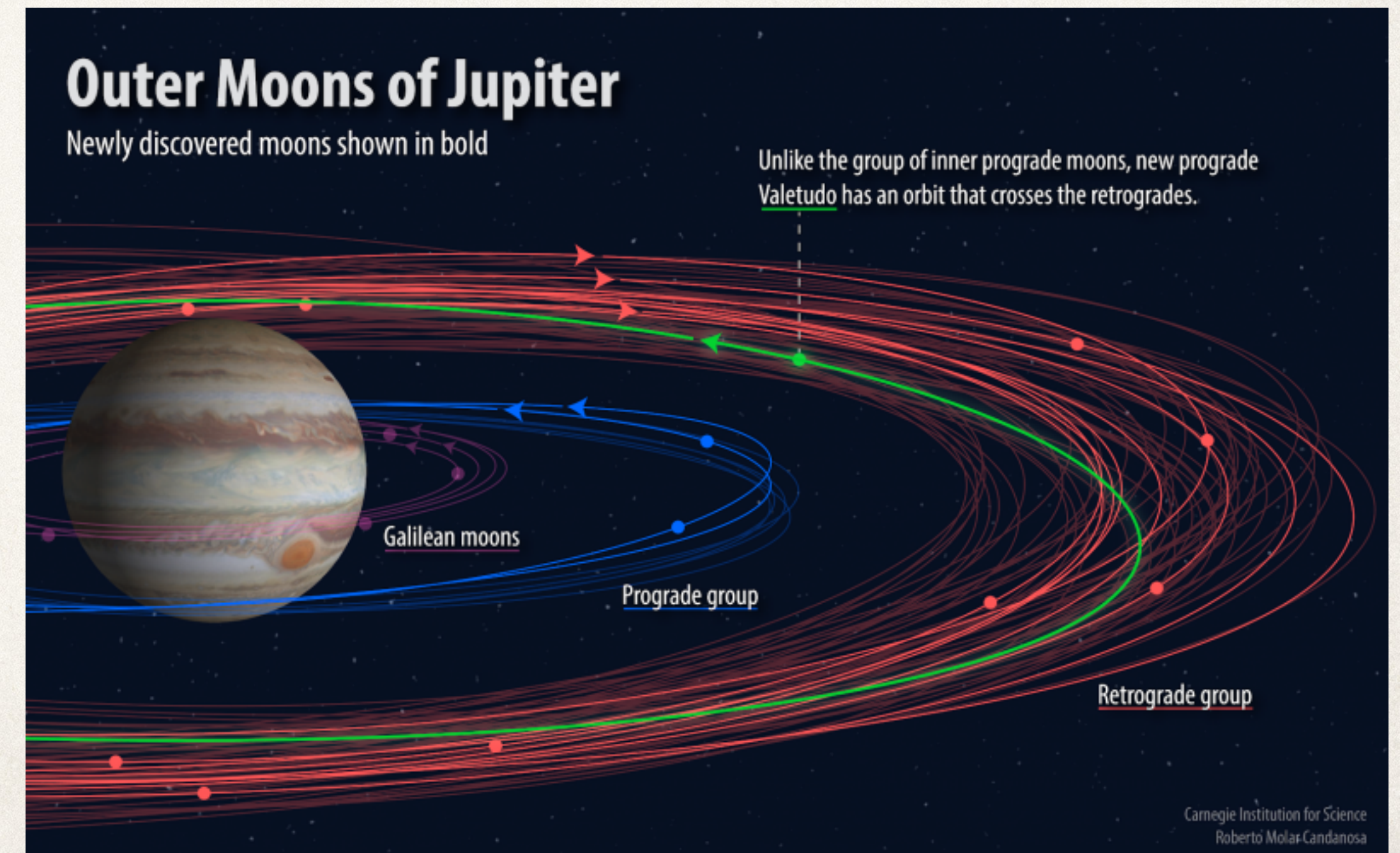
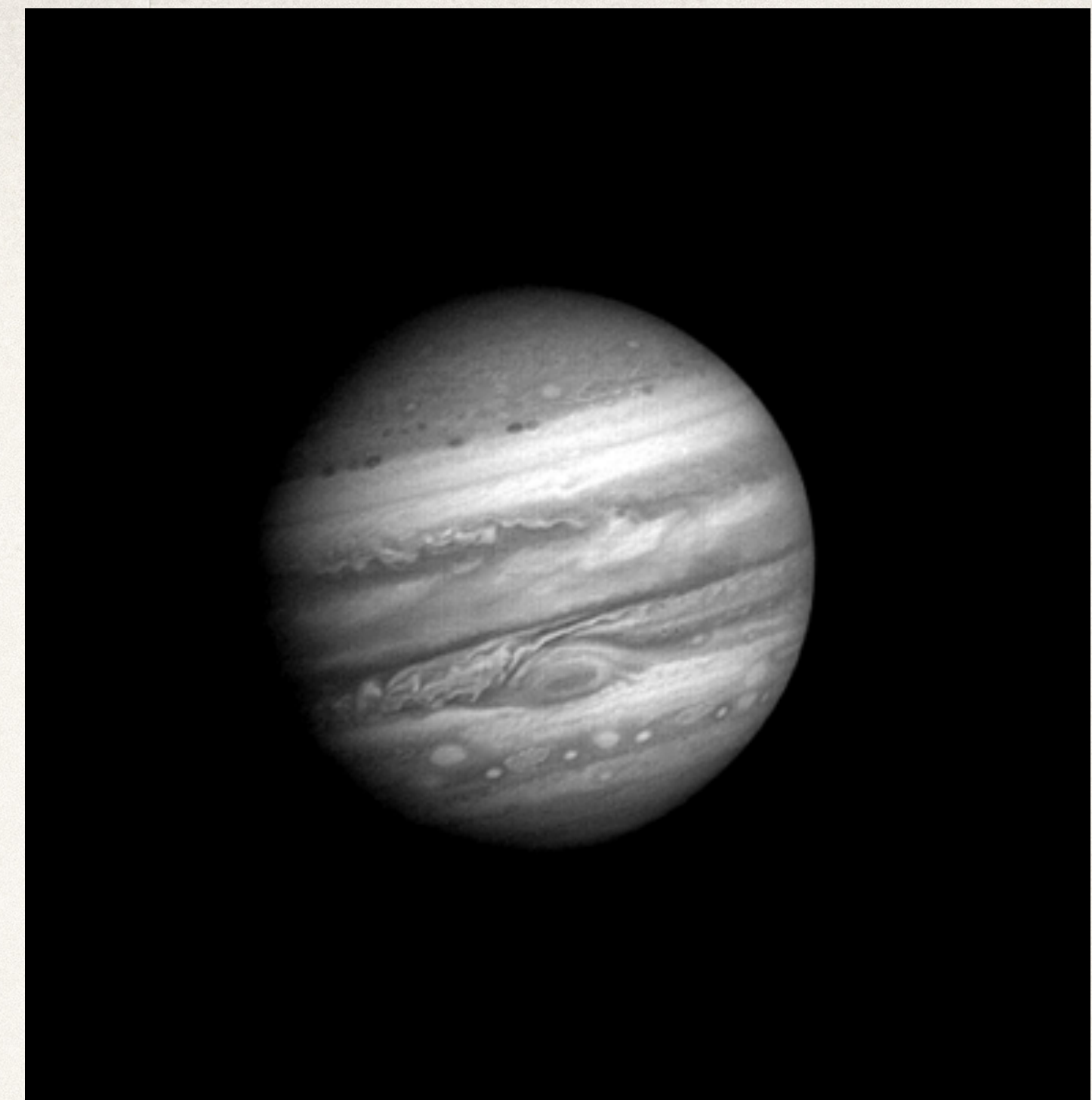
Python's *Benevolent Dictator for Life* steps down

- ❖ Guido van Rossum
- ❖ “But I'm basically giving myself a permanent vacation from being BDFL, and you all will be on your own.”
<https://lwn.net/Articles/759654/>
- ❖ https://en.wikipedia.org/wiki/Benevolent_dictator_for_life
- ❖ Thank you, Guido!!!



79!

- ❖ <https://carnegiescience.edu/news/dozen-new-moons-jupiter-discovered-including-one-%E2%80%9Coddball%E2%80%9D>





STRANGE PARTS

Adventures from the technological fringe

❖ <https://www.youtube.com/channel/UCO8DQrSp5yEP937qNqTooOw>

iPhone Adventures

PLAY ALL



How I Made My Own iPhone - in China

Strange Parts ✓ 14M views • 1 year ago

I built a like-new(but really refurbished) iPhone 6S 16GB from phone parts markets in Huaqiangbei. And it works! How

CC



Bringing BACK The iPhone Headphone Jack

Strange Parts ✓ 5.9M views • 10 months ago

I love my iPhone, but it doesn't have a headphone jack! So I made an iPhone in China video: <https://youtu.be/leFuF-7>

CC



Making a CUSTOM iPhone - in Shenzhen

Strange Parts ✓ 960K views • 5 months ago

Enough of these boring looking iPhones - let's make a custom iPhone in China. I headed out to the cell phone parts markets in H

CC



Making a Custom GLOWING iPhone Logo

Strange Parts ✓ 688K views • 4 months ago

Enough of that boring Apple logo - let's turn it into a glowing logo! On my quest to make a custom iPhone in Shenzhen, China Sha

CC

Questions, Comments?



J. Willard Marriott Library
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YEARS NEED