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MAC GROUP, CLIENT PLATFORM SERVICES, MARRIOTT LIBRARY

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# WHAT'S NEW?



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# WWDC 2019

- ▶ MacOS 10.15 Catalina\* (removal of scripting languages in future OS')
- ▶ iOS 13\*
- ▶ iPadOS 13\*
- ▶ WatchOS 6\*
- ▶ tvOS 13\*
- ▶ iTunes split (Music, TV and podcasts)
- ▶ Swift, SwiftUI cross platform interface framework
- ▶ Mac Pro

\* Beta 2 released on Monday.

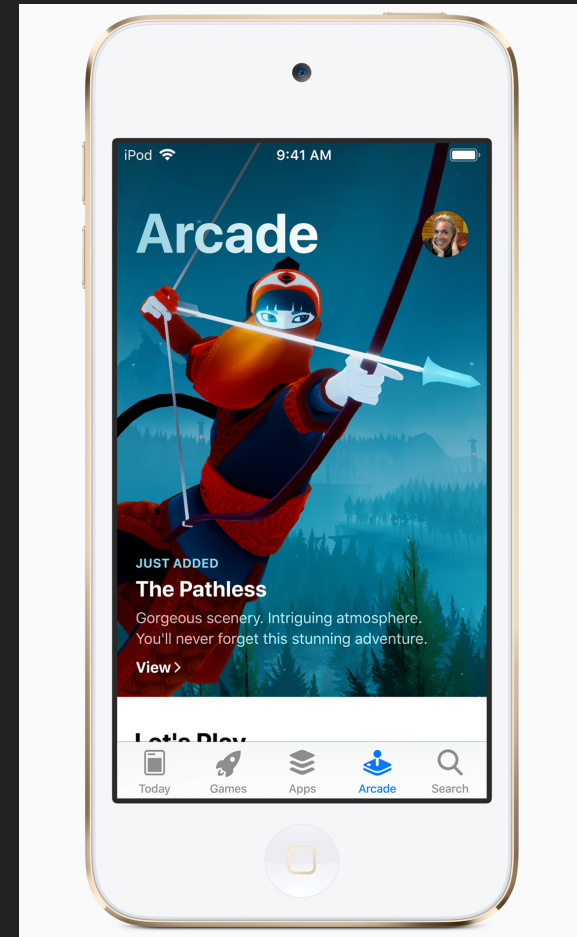
# MAC PRO

- ▶ Not what I'd personally hoped for...
- ▶ Custom SSD connector. :(
- ▶ Wheels!
- ▶ <https://appleinsider.com/articles/19/06/10/apple-is-using-a-custom-connector-for-the-ssd-in-the-new-mac-pro>



# NEW IPOD TOUCH ANNOUNCED

- ▶ <https://www.apple.com/ipod-touch/>
- ▶ 32 (\$199), 128 (\$299) or 256GB (\$399)
- ▶ Space gray, white, gold, blue, pink and (PRODUCT)RED.
- ▶ iOS 12, AR, Arcade



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## AIRPORT FIRMWARE UPDATE 7.9.1!!!!

- ▶ Most recent Airport Extreme and Time Capsules
- ▶ <https://support.apple.com/en-us/HT201519>
- ▶ <https://www.macrumors.com/2019/05/30/airport-base-station-firmware-7-9-1/>

## BURNING MBP

- ▶ White Panda's MBP caught fire
- ▶ [https://www.reddit.com/r/apple/comments/bulbhv/my\\_macbook\\_pro\\_exploded\\_and\\_burst\\_into\\_flames/](https://www.reddit.com/r/apple/comments/bulbhv/my_macbook_pro_exploded_and_burst_into_flames/)
- ▶ <https://www.macrumors.com/2019/05/30/smoking-macbook-pro-white-panda-video/>
- ▶ <https://appleinsider.com/articles/19/05/30/macbook-pro-catches-on-fire-demonstrating-potential-danger-of-batteries>



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## MAN SWALLOWS AIRPOD

- ▶ You know what happens next...
- ▶ <https://9to5mac.com/2019/05/03/accidentally-swallowed-airpod/>

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## APERTURE WILL NOT WORK UNDER 10.15

- ▶ <https://support.apple.com/en-us/HT209594>
- ▶ Development ceased in June, 2014. Ceased selling in App Store in April, 2015.
- ▶ <https://www.macrumors.com/2019/04/30/aperture-wont-run-beyond-macos-mojave/>



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## APPLE PENCIL BLOCKS KEY FOBs

► <https://support.apple.com/en-us/HT205236>

2. If you're charging your Apple Pencil (2nd generation) with your iPad Pro and your car's keyless entry device (key fob) is nearby, signal interference might prevent you from unlocking your car with your key fob. If this happens, you can simply move your iPad Pro away from the key fob or remove your Apple Pencil from your iPad Pro and store it separately. When Apple Pencil is finished charging, any resulting signal interference will cease.

► <https://appleinsider.com/articles/19/04/15/cant-unlock-your-car-a-charging-apple-pencil-might-be-to-blame>

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## NEW MACOS X GATEKEEPER BYPASS

- ▶ POC, requires some setup to operate.
- ▶ <https://www.fcvl.net/vulnerabilities/macosex-gatekeeper-bypass>

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## ZOMBIELOAD, MICROARCHITECTURAL DATA SAMPLING

- ▶ Another speculative execution bug
- ▶ <https://support.apple.com/en-us/HT210107>
- ▶ <https://support.apple.com/en-us/HT210108> (Full mitigation)
- ▶ <https://software.intel.com/security-software-guidance/software-guidance/microarchitectural-data-sampling>
- ▶ <https://software.intel.com/security-software-guidance/insights/deep-dive-intel-analysis-microarchitectural-data-sampling>

# How to enable full mitigation for MDS in macOS

To enable full mitigation of MDS [after installing security updates](#), start your Mac in macOS Recovery and then enter commands in the Terminal app.

1. Turn on or restart your Mac and immediately press and hold Command (⌘)-R or one of the other [macOS Recovery](#) key combinations on your keyboard.
2. From the Utilities menu in the menu bar, choose Terminal.
3. Type the following two commands, one at a time, at the Terminal prompt. Press Return after each one.

```
nvram boot-args="cwae=2 "
```

```
nvram SMTDisable=%01
```

4. From the Apple menu , choose Restart.

# 40% PERFORMANCE LOSS?!?

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## NEW ROWHAMMER SIDE CHANNEL ATTACK REVEALS KEYS FROM ECC RAM

- ▶ <https://rambleed.com/>
- ▶ <https://arstechnica.com/information-technology/2019/06/researchers-use-rowhammer-bitflips-to-steal-2048-bit-crypto-key/>

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## MICROSOFT SHOWS EDGE FOR MAC...

- ▶ <https://www.theverge.com/2019/5/6/18528881/microsoft-edge-macos-mac-browser-teaser-build-2019>
- ▶ <http://osxdaily.com/2019/05/08/download-microsoft-edge-beta-mac-now>

## BAT INFESTED IPAD CASE

- ▶ <http://www.loopinsight.com/2019/05/30/nh-man-bitten-by-rabid-bat-hiding-in-ipad-case/>
- ▶ <https://appleinsider.com/articles/19/05/30/new-hampshire-man-bitten-by-rabid-bat-hiding-in-ipad-case>





## CHASSEPOT / ROYAL KLUDGE DOUBLE-HEIGHT KEYBOARD

- ▶ \$170 or \$200 for full RGB lighting
- ▶ Full production in June?
- ▶ <https://www.engadget.com/2019/05/30/double-height-keyboard/>



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## GOOGLE RECALLS TITAN SECURITY KEYS DUE TO BLE VULNERABILITY

- ▶ <https://security.googleblog.com/2019/05/titan-keys-update.html>
- ▶ <https://www.cyberscoop.com/google-replace-titan-keys-free-uncovering-bluetooth-flaw/>

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## GOOGLE MELTDOWN

- ▶ <https://arstechnica.com/information-technology/2019/06/the-catch-22-that-broke-the-internet/>

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## ADOBE THREATENS LEGAL ACTION FOR USING OLDER VERSIONS OF CC

- ▶ <https://appleinsider.com/articles/19/05/13/adobe-warning-of-legal-problems-if-users-keep-using-old-versions-of-creative-cloud-apps>

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## USB4

- ▶ Final spec due soon, devices forecast for late-2020
- ▶ Based on Thunderbolt 3, 40Gbps bandwidth
- ▶ Backwards compatible to, but double the bandwidth of USB-C
- ▶ <https://www.anandtech.com/show/14526/usb-if-usb4-coming-in-late-2020>

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## VIM/NEOVIM VULNERABILITY

- ▶ Requires modelines to be enabled, not the default under macOS. Shipping version still vulnerable. Unlikely to be patched.
- ▶ [https://github.com/numirias/security/blob/master/doc/2019-06-04\\_ace-vim-neovim.md](https://github.com/numirias/security/blob/master/doc/2019-06-04_ace-vim-neovim.md)
- ▶ <https://arstechnica.com/information-technology/2019/06/if-you-havent-patched-vim-or-neovim-text-editors-you-really-really-should/>

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## FACEBOOK CRYPTOCURRENCY

- ▶ <https://arstechnica.com/tech-policy/2019/06/facebook-launches-cryptocurrency-with-visa-mastercard-uber-and-others/>

# 13 MINUTES TO THE MOON

- ▶ <https://www.bbc.co.uk/programmes/w13xttx2>





# COMMENTS, QUESTIONS?

