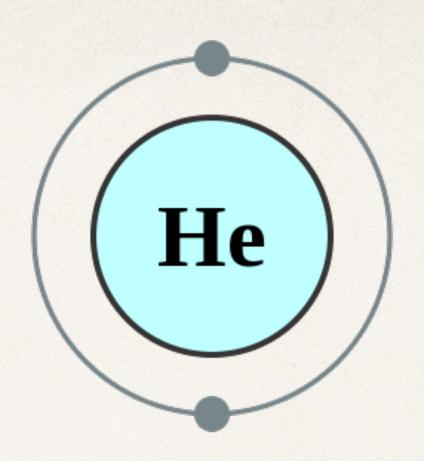
What's New?

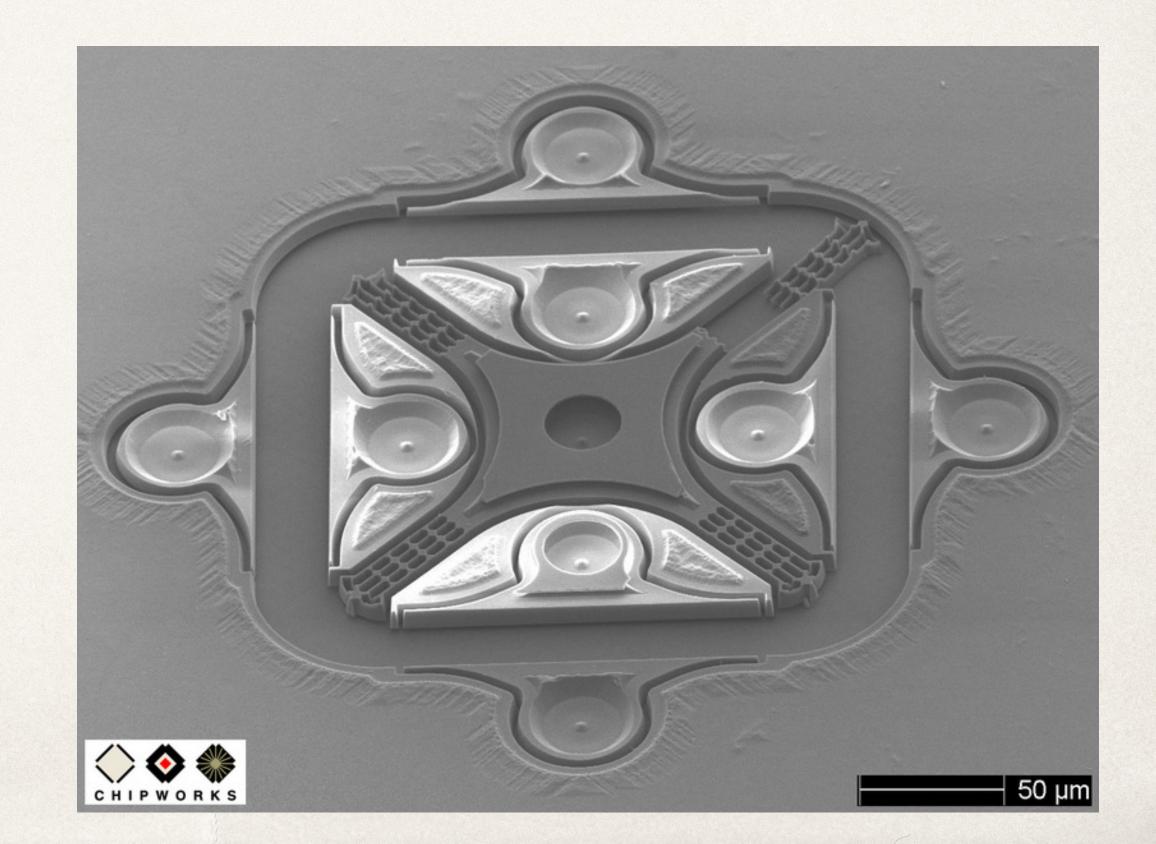
Todd McDaniel, Mac Group, Client Platform Services, Marriott Library



Helium and iPhones don't mix.

- https://www.reddit.com/r/sysadmin/ comments/9mk2o7/ mri_disabled_every_ios_device_in_facility
- https://www.reddit.com/r/sysadmin/
 comments/9si6r9/
 postmortem_mri_disables_every_ios_device_in
- https://ifixit.org/blog/11986/iphones-areallergic-to-helium/
- Large helium leak, possibly upset gyroscopes and/or clocks, oscillator





Fall Apple hardware event

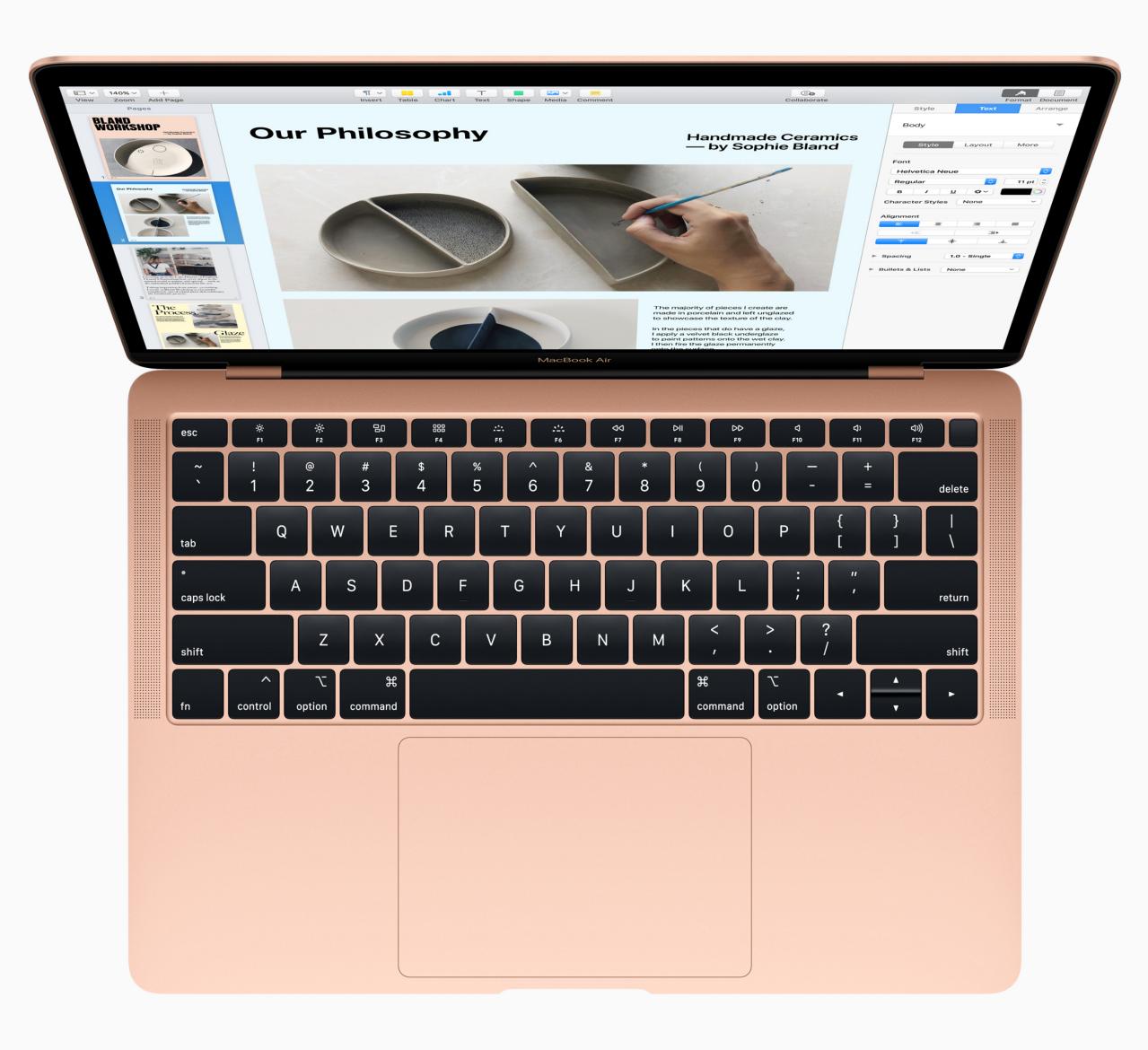
iPad Pro

- FaceID
- * Thinner bezels, Thinner cases
- * USB-C
- * 11" and 12.9", 64GB to 1TB
- New Pencil
- * No home button or headphone jack...



MacBook Air

- * i5, up to 16GB RAM, 1.5TB SSD
- Retina displays, 2560x1600, 48% more color
- No Touch Bar, but includes Touch ID
- Thinner bezels
- * 2x Thunderbolt 3 (USB-C)
- * T2



MacBook Pro w/Vega

- * Discrete Radeon Pro Vega 16 and 20
- * 4GB HBM2
- * \$250, \$350 added cost
- * BlackMagic eGPU with Radeon RX Pro Vega 56 GPU, \$1199



Mac Mini

- * T2, up to 64GB RAM, 6-core i7, 2 TB SSD, 10Gb Ethernet
- * CPU and SSD soldered to logic board.:(
- * https://www.ifixit.com/Guide/ Mac+mini+Late+2018+Memory+(RAM) +Replacement/115309
- https://www.apple.com/newsroom/ 2018/10/the-secret-world-of-mac-mini/



Side-channel Attacks

- https://en.wikipedia.org/wiki/Side-channel_attack
- * "...any attack based on information gained from the implementation of a computer system, rather than weaknesses in the implemented algorithm itself."
- * Targets include: caches, timing, power, electromagnetic radiation, sound, error handling, data persistence, software-initiated faults and optically
- * Spectre, Meltdown, Row Hammer, Van Eck phreaking, TEMPEST



PortSmash

- https://arstechnica.com/information-technology/2018/11/intel-cpus-fallto-new-hyperthreading-exploit-that-pilfers-crypto-keys/
- https://github.com/bbbrumley/portsmash



Additional Spectre/Meltdown attacks announced

https://arstechnica.com/gadgets/2018/11/spectre-meltdown-researchersunveil-7-more-speculative-execution-attacks/



IBM acquires Red Hat for \$34 Billion

- * "Red Hat to operate as a distinct unit within IBM's Hybrid Cloud team" https://newsroom.ibm.com/2018-10-28-IBM-To-Acquire-Red-Hat-Completely-Changing-The-Cloud-Landscape-And-Becoming-Worlds-1-Hybrid-Cloud-Provider
- * What will happen to RHEL, Fedora, etc...



Starman passes Mars

- https://arstechnica.com/science/ 2018/11/elon-musks-tesla-roadsterreaches-its-furthest-point-from-the-sun/
- https://twitter.com/SpaceX/status/ 1058518183064219648/photo/1





30th anniversary of the Morris Worm

- * 11/02/88, ~6,000 machines infected, up to \$10M in damages
- https://www.cyberscoop.com/morris-worm-mirai-scott-shackelfordindiana-university/
- https://en.wikipedia.org/wiki/Morris_worm
- * A Tour of the Worm, Donn Seeley, University of Utah



Happy Thanksgiving!!!



