Why are android applications much less optimized than Apple?

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Apple iPad Pro 12.9 (2017)

Released 2017, June
677g (Wi-Fi) / 692g (LTE), 6.9mm thickness
iOS 10.3.2, up to iPadOS 15.4
64GB/256GB/512GB storage, no card slot

0.8%
1,067,270 HITS

115
BECOME A FAN

12.9"
2732x2048 pixels

12MP
2160p

4GB RAM
Apple A10X Fusion

10891mAh
Li-Ion

OnePlus 6T

Released 2018, November 01
185g, 8.2mm thickness
Android 9.0, up to 11, OxygenOS 11.1.1.1
128GB/256GB storage, no card slot

3.8%
5,707,689 HITS

729
BECOME A FAN

6.41"
1080x2340 pixels

20MP
2160p

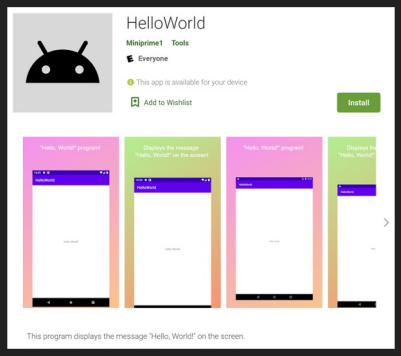
6/8GB RAM
Snapdragon 845

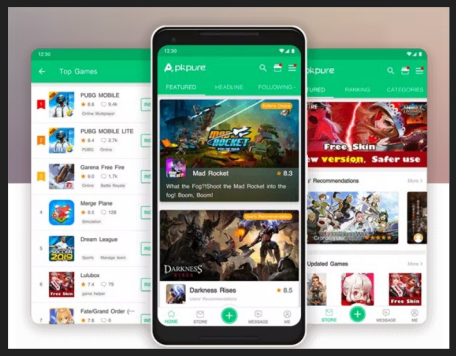
3700mAh
Li-Po

6	Cores	8
6	Threads	8
hybrid (big.LITTLE)	Core architecture	hybrid (big.LITTLE)
No	Hyperthreading	No
No	Overclocking ?	No
2.36 GHz	A-Core Frequency	2.80 GHz
1.30 GHz	B-Core Frequency	1.80 GHz
--	C-Core Frequency	--

Why android applications are less optimized than iOS

1. Android is used in a variety of devices. iOS only used in Apple mobile devices.
2. Google Play store’s loose application requirements vs Apple store’s strict requirements.
3. Android can download apps outside of the google play store.



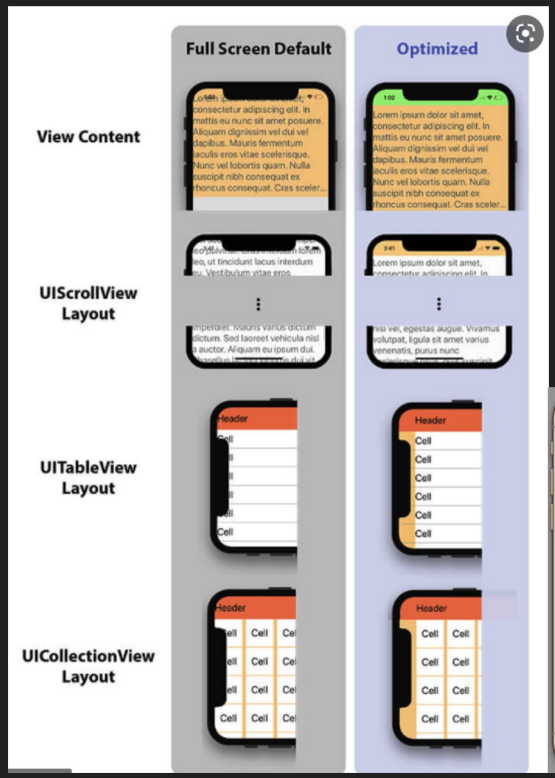


The difficulty of adapting to screen resolution (android)

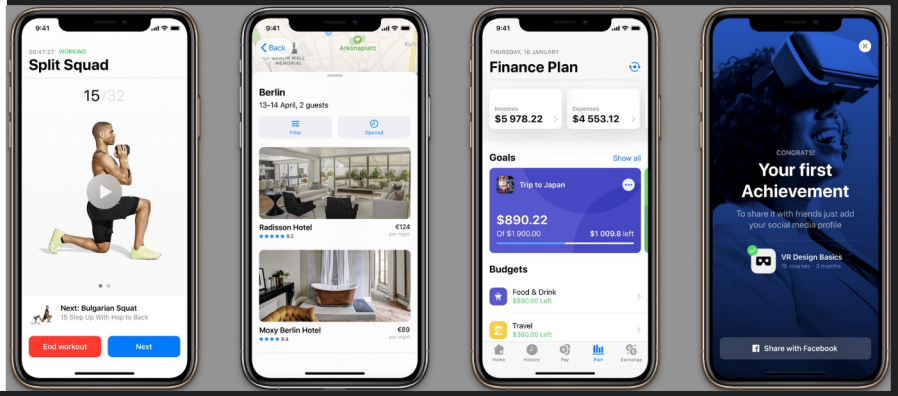
Contents in an application should avoid the front camera, but for android, the camera can be everywhere.

- Extra work for CPU
- Extra work for app developer
- Reduce the reliability.

The difficulty of adapting to screen resolution (ios)



- Consistent design make it easier to optimize the display of an application



Apple Store is more optimized than Google play/android stores

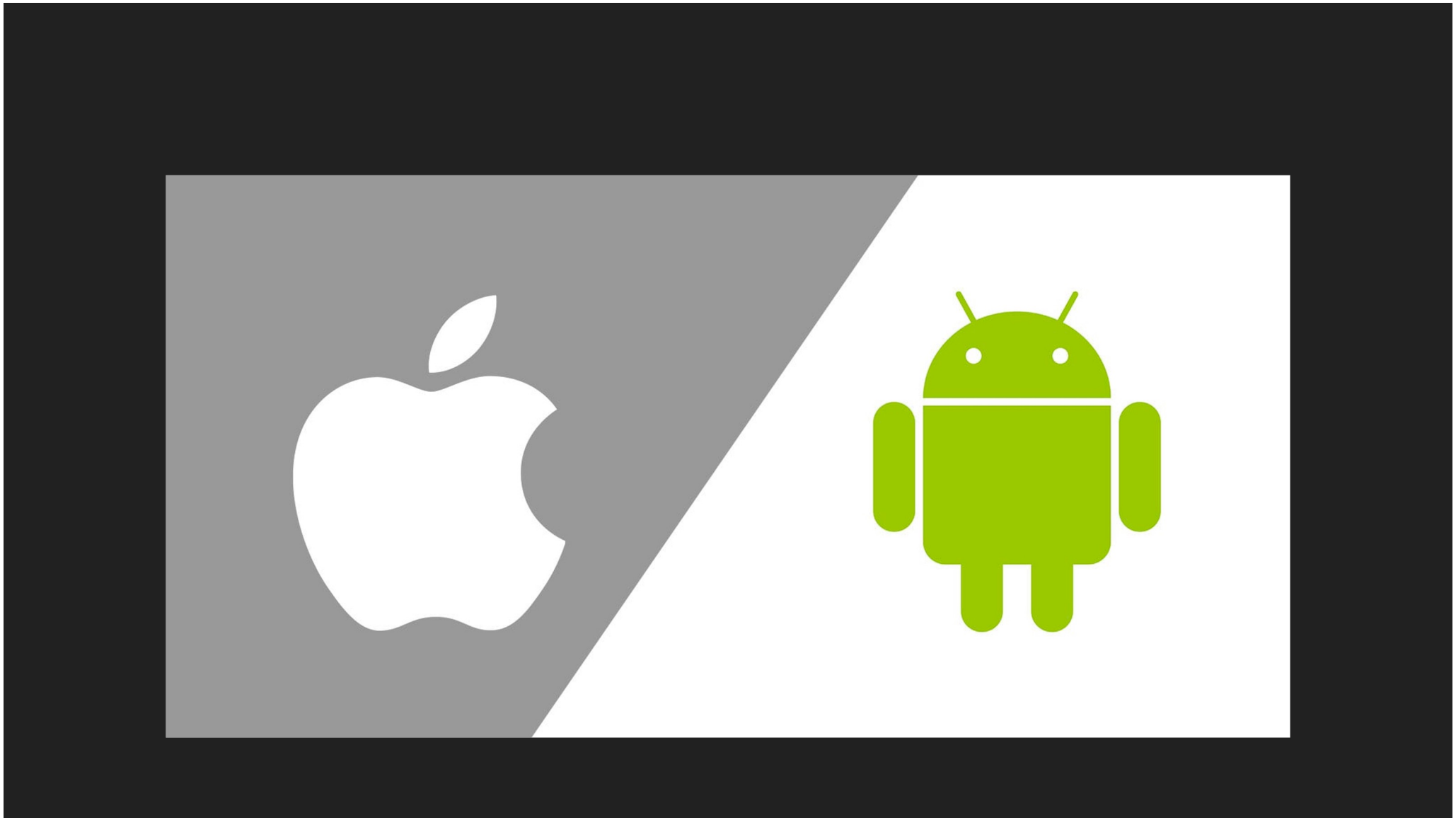
- Apple stores has higher standards to ensure quality and protect security.
- Google Play doesn’t check the quality of applications as much as apple. This means android phones are more susceptible to malware. According to Apple CEO Tim Cook, “Android has 47 times more malware than iOS does”.
- Apple takes 48 hours to approve an application while Google play takes 2 hours or less.

Android Allows applications from various sources

- IOS system only allows downloading applications from the authorized APP store.

- Android allows installing APKs from unknown (third party) sources when the play store is just not enough

- Both Google play and App stores have app ratings that will encourage the developer to update and optimize their application.



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