



Introduction to Mobile Development
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Mobile Device History

Mobile Devices have changed and the market has grown massively over the past decade. First we are going to go over a brief history of mobile devices. The first reports of so-called “Mobile Devices” first dates back to the early 1940s. All though they were called mobile devices it was more of a radio that could connect for example ems with the fire department. These were primary car telephones that a person could not carry around with them but could only use in their vehicle. The next big stride in mobile devices was in the mid 1980s. This is when the first mobile home phones were released. See picture below.



The next big shift came in the 1990s where some of the first recognizable cell phones were released finally making use of a WAP network. From here the growth in this market is extremely rapid as new technology comes out every 6 months to a year. Soon the mobile phones were not the only devices on the market. As companies like Apple came out with products such as the Ipad and later the Ipad. With devices like these

being released another whole market came to the mobile device industry with software,



music and even games now being sold.

Now in 2021 today. We have countless different types of mobile devices to tablets that are essentially full computers at the touch of your fingertips to apple watches that are a mobile device that mounts to your wrist. As you can see the market has expanded massively over the past decade and mobile software development is at an all time high.

Comparing Pixel 5 and Iphone 13

Manufacturer	Google	Apple
Phone Model	Pixel 5	Iphone 13
Picture		
Price	\$1,159.50 CDN	\$799 USD
Release Date	2020, October 15	Released 2021, September 24
Operating System	Android 11	iOS 15
Chipset	Qualcomm SM7250 Snapdragon 765G 5G (7 nm)	Apple A15 Bionic (5 nm)

Processor(CPU)	Octa-core (1x2.4 GHz Kryo 475 Prime & 1x2.2 GHz Kryo 475 Gold & 6x1.8 GHz Kryo 475 Silver)	Hexa-core (2x3.22 GHz + 4xX.X GHz)
Memory(RAM)	8GB	4GB
Memory(Internal)	128GB	128, 256, 512 GB
Memory(Exteneral)	NA	NA
Display	1080 x 2340 pixels,OLED, 90Hz, HDR10+, 6.0 inches	6.1 inches 2532 x 1170/460
Camera(Front)	8 MP, f/2.0, 24mm (wide), 1/4.0", 1.12µm 1080p@30fps	12MP TrueDepth
Camera(Rear)	12.2 MP, f/1.7, 27mm (wide), 1/2.55", 1.4µm, dual pixel PDAF, OIS 16 MP, f/2.2, 107° (ultrawide), 1.0µm 4K@30/60fps, 1080p@30/60/120/240fps	Dual 12MP (Wide, ultrawide)
GPS	Yes, with A-GPS, GLONASS, GALILEO, QZSS, BDS	Yes, with A-GPS, GLONASS, GALILEO, BDS, QZSS
Battery	Li-Po 4080 mAh, non-removable	Li-Ion 3240 mAh, non-removable (12.41 Wh)
Battery(Talk Tlme)	11 hours and 41 minutes	10:33
Battery(Standby)	18 hours 30 minutes	19 h
Network	<u>GSM / CDMA / HSPA / EVDO / LTE / 5G</u>	GSM / CDMA / HSPA / EVDO / LTE / 5G
Synchronization with desktop	NA	Apple Sync
Vioce enabled	Yes	Yes
Browser	Google Chrome	Safari

GPU	Adreno 620	Apple GPU (4-core graphics)
Headphone Jack	NA	NA

Comparing two Phone Plans

Service Provider	Rogers	Bell
Plan	Unlimited Data Plan	Unlimited Share 35 Plan
Calls	Unlimited	Unlimited nationwide talk
Data	35GB of high-speed* shareable data, reduced speeds thereafter	35 GB speeds reduced after
Messaging	Unlimited text, picture and video messaging ²	Unlimited Canada-wide text, picture and video messages
Global Texting	Pay Per Text	Pay Per Text
Voice Mail	Enhanced voicemail	Call Display and Message Centre
Call features	Call waiting, forwarding and group calling	Call Waiting and Conference Calling ⁴
Service Credits	Save \$15/mo. on every additional line you add (after bill credit, up to 9 lines) ⁸ Purchase a tablet or	NA

	Apple Watch on financing and get a free tablet plan or Apple Watch plan for 24 months (currently \$10/mo) ⁹	
Fees	90\$/Month	90\$/month
Usage policy	Extended Return Policy - Worry-free returns within 30 days at no cost for online orders	Flat rate or unlimited use plans and services offered are subject to customer using the service under an ordinary range of use and in a way that does not consume excessive network capacity and/or adversely affect Bell MTS's ability to provide services to other users. By way of example and not limitation, the following are considered by Bell MTS to be outside of an ordinary range of use thereby consuming excessive network capacity:
Coverage	5G coverage.	Access to the Bell 5G network* on any 5G-capable device

References

https://www.bell.ca/Mobility/Smartphones_and_mobile_internet_devices

<https://www.rogers.com/plans#plans>

https://www.gsmarena.com/apple_iphone_13-11103.php

https://www.gsmarena.com/google_pixel_5-10386.php

[apple.com/ca/shop/buy-watch/apple-watch/40mm-gps-gold-aluminium-pink
sand-sport-band-sm-ml](https://apple.com/ca/shop/buy-watch/apple-watch/40mm-gps-gold-aluminium-pink-sand-sport-band-sm-ml)

<https://www.tigermobiles.com/evolution/#thirdPhone>