

MODE 4201

# Introduction to Mobile Development

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## Mobile Operating Systems

### History

Mobile operating systems have only been around since 1993. From 1973 to 1993 mobile phones had embedded systems that were used to control the operations of the device. In April 1993, PenPoint OS was the first mobile operating system released and was developed by GO Corporation, which was available through AT&T's mobile device named the EO Personal Communicator. Shortly after GO's launch of their new mobile operating system, Apple launched their own mobile operating system named Newton OS in August of 1993. These two companies began the technological arms race to develop better mobile operating systems.

### Present

Today there are several different mobile operating systems but the two most used are Android OS and iOS. Android is an operating system based off a modified Linux kernel that was developed by Google and is the most installed mobile operating system in the world. iOS was created by Apple inc. and is the second most installed mobile operating system in the world. The operating systems today focus on a two-dimensional screen with relatively high processing power giving the user a fast, wait-free environment to work with.

### Future

Based on an article from computerworld.com the next generation of mobile operating systems will be more geared towards user-interface (UI). This will basically capture a timeline of your experience with the device. The direction of mobile phones is going towards a three-dimensional user-interface with instant response times. As mobile networks advance (currently in 5G), speeds of newer devices have increased drastically. This calls for more enhanced mobile operating systems, which can be expected to have increasingly new and better technology added to future operating systems.

## Mobile Manufacturer

<u>Manufacturer</u>	<u>Apple</u>	<u>Manufacturer</u>	<u>Samsung</u>
Model	Galaxy s21 5G	Model	iPhone 13 Pro
Photo		Photo	
Price	\$1097.99	Price	\$1399.00
Release Date	January 21 2021	Release Date	September 24 2021
Operating System	Android 11, One UI 3.1	Operating System	iOS 15
Chipset	Exynos 2100 (5 nm)	Chipset	Apple A15 Bionic (5 nm)
CPU	Octa-core	CPU	Hexa-core
Memory (RAM)	8GB	Memory (RAM)	6GB
Memory (Internal)	128GB – 256GB	Memory (Internal)	128GB – 1TB NVMe
Memory (External)	N/A	Memory (External)	N/A
Display	Dynamic AMOLED	Display	Super Retina XDR OLED
Camera (Rear)	Triple HDR 8K	Camera (Rear)	QUAD-LED HDR 4K
Camera (Front)	Single HDR 4K	Camera (Front)	Dual HDR 4K
GPS	Yes	GPS	Yes
Battery	Lithium Ion 4000mAh	Battery	Lithium Ion 4373mAh
Battery (Talk Time)	27hours 30minutes	Battery (Talk Time)	28hours
Battery (Standby)	93hours	Battery (Standby)	95hours

Network	GSM/CDMA/EVDO/HSPA/5G/LTE	Network	GSM/CDMA/EVDO/HSPA/5G/LTE
Sync	Samsung DeX	Synchronization	Apple TV
Voice Enabled	Yes	Voice Enabled	Yes
Browser	Chrome	Browser	Safari
Charging	Fast charging 25W	Charging	Fast charging 20W, 50% in 30 min (advertised)
Fingerprint Sensor	Yes	Fingerprint Sensor	Yes

## Mobile Plans

<u>Service Provider</u>	<u>Rogers</u>	<u>Service Provider</u>	<u>Freedom Mobile</u>
Plan	Unlimited Share 30	Plan	Big Gig Unlimited
Calls	Unlimited Canada-wide	Calls	Unlimited calls to Canada. Unlimited incoming calls
Data	35GB shareable data with reduced speeds after 35GB	Data	20GB speeds reduced after 20GB
Messaging	Unlimited	Messaging	Unlimited
Global Texting	Unlimited	Global Texting	Unlimited
Voice Mail	Enhanced voicemail	Voice Mail	Standard voicemail
Call features	Call forwarding, call waiting and group calling. Name and call display.	Call features	Call forwarding, call waiting and group calling. Name and call display.
Service Credits	Save 15\$ for every additional line	Service Credits	None
Fees	90\$ monthly	Fees	50\$ monthly
Usage Policy	Compatible device required	Usage Policy	One time connection fee of 35\$ may apply
Coverage	5G access Canada wide	Coverage	LTE Network
Roaming	Additional charges applied outside of Canada	Roaming	Additional charges applied outside of Canada
Subscription Bonuses	Sign up for apple music and/or Disney Plus and get 6 months free	Subscription bonuses	None

## References

[Mobile operating system - Wikipedia -](#)

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[www.computerworld.com/article/2580106/future-of-operating-systems--simplicity.html](http://www.computerworld.com/article/2580106/future-of-operating-systems--simplicity.html)

[Samsung Galaxy S21 5G - Full phone specifications \(gsmarena.com\)](#)

[Samsung Galaxy S21 5G 128GB \(Unlocked\) Phantom Gray SM-G991UZXAXAA - Best Buy](#)

[iPhone 13 Pro 128GB Sierra Blue - Apple \(CA\)](#)

[Apple iPhone 13 Pro Max - Full phone specifications \(gsmarena.com\)](#)

[Freedom Mobile | Cell Phone Plans - Fast LTE, Talk & Text](#)

[Smartphone Plans – Cell Phone Plans With Unlimited Data | Rogers](#)