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| MODE 4201 |
| Introduction to Mobile Development |
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Table of Contents

[Mobile Operating Systems 2](#_Toc4444105)

[Past 2](#_Toc4444105)

[Present 2](#_Toc4444106)

[Future 2](#_Toc4444106)

[Mobile Manufacturer 3](#_Toc4444106)

Mobile Plans  [4](#_Toc4444105)

References  [5](#_Toc4444105)

# 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

|  |  |  |  |
| --- | --- | --- | --- |
| Manufacturer | Apple | Manufacturer | Samsung |
| Model | Galaxy s21 5G | Model | iPhone 13 Pro |
| Photo | Samsung Galaxy S21 5G 128GB (Unlocked) Phantom Gray SM-G991UZKAXAA - Best  Buy | Photo |  |
| Price | $1097.99 | Price | $1399.00 |
| Release Date | January 21 2021 | Release Date | September 24 2021 |
| Operating System | Android 11, One U1 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

|  |  |  |  |
| --- | --- | --- | --- |
| Service Provider | Rogers | Service Provider | Freedom Mobile |
| 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

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[Smartphone Plans – Cell Phone Plans With Unlimited Data | Rogers](https://www.rogers.com/plans)