# Android Programming (03606351)

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# Introduction of Android

# History of Android

- Android Inc. was founded by **Andy Rubin, Rich Miner, Nick Sears, and Chris White** to develop smarter mobile devices.
- **Google acquired Android Inc. in 17th Aug 2005** for USD 50 million and marketed it as a platform for mobile manufacturers.

# What is an Android?

- Android was introduced in 2003 and had its first commercial release in 2008.
- Over the years, Android versions have evolved significantly, enhancing the user experience.
- The latest version, Android 15, has further improved the Android experience.
- Android is the most popular operating system, refined and optimized over time.
- It dominates the market and powers more than 3 billion active devices worldwide.
- The Android of today is vastly different and more advanced than its 2008 version.
- In 2007, the Open Handset Alliance, a consortium of 82 companies, was formed.
- The alliance included major companies like HTC, Samsung, Motorola, T-Mobile, Sprint, Qualcomm, Texas Instruments, and Google.
- The alliance enabled Android to compete against Apple's iPhone domination.

- Android has since become one of the most desirable operating systems worldwide.
- Early Android versions were named after confectioneries in alphabetical order.
- This naming convention was discontinued with Android 10(Version Q), though internal codenames are still used.

# List of Android Version with Releases

## List of Android Versions

1. Android 1.0 Alpha –2008
2. Android 1.1 Beta - 2009
3. Android 1.5 Cupcake - 2009
4. Android 1.6 Donut – 2009
5. Android 2.0/2.1 Éclair - 2009
6. Android 2.2 Froyo – 2009
7. Android 2.3 GingerBread - 2010
8. Android 3.0/3.1/3.2 Honeycomb - 2011
9. Android 4.0 Ice cream Sandwich - 2011
10. Android 4.1 Jelly Bean – 2012
11. Android 4.4 Kitkat - 2013
12. Android 5.0 Lollipop - 2014
13. Android 6.0 Marshmallow – 2015
14. Android N Nougat – Announced in 2016
15. Android 8.0 to 8.1: Oreo – Announced in August 2017
16. Android 9.0: Pie – 2018
17. Android 10 - Released in September 2019
18. Android 11 : Red Velvet Cake– 2020
19. Android 12 : Snow Cone– 2021
20. Android 13 : Tiramisu– 2022
21. Android 14 : Upside Down Cake– 2023
22. Android 15 : Vanila Icecream – 2024

# Features of Android

- Here are the most important features of Android:

**1. Open Source Platform**

- Android is open-source, allowing developers and manufacturers to modify and customize it.

**2. Customizable User Interface**

- Highly flexible UI that can be personalized for individual and brand-specific needs.

**3. Vast Application Ecosystem**

- Access to millions of apps through the Google Play Store, supporting diverse functionalities.

**4. Multi-Tasking**

- Ability to run multiple apps simultaneously, improving productivity and user experience.

**5. Regular Updates**

- Frequent updates ensure security, new features, and enhanced performance.

**6. Wide Hardware Compatibility**

- Works across various devices, including smartphones, tablets, smart TVs, wearables, and IoT gadgets.

**7. Robust Notification System**

- Delivers real-time notifications for messages, alerts, and updates, with customization options.

**8. Multi-Language Support**

- Supports numerous languages, catering to a global audience.

**9. Connectivity Features**

- Includes Wi-Fi, Bluetooth, NFC, 4G/5G, and USB connectivity for seamless communication.

**10. Integration with Google Services**

- Deep integration with Google apps like Maps, Gmail, Drive, and Google Assistant for a unified experience.