

app

Technology > Computers

app

mobile device software

Ask the Chatbot a Question

More Actions

Also known as: mobile application

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Top Questions

What are mobile apps and how do they differ from Web and desktop applications?

When did mobile apps first appear and how did they evolve?

What are the main types of mobile applications?

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app.

application software

developed for use on a mobile device such as a

smartphone or tablet.

Mobile apps are distinct from Web applications, which run in

Web browsers, and from desktop applications, which are used on desktop

computers.

History and growth

Mobile apps were introduced in the

1980s with the release of the first

personal digital assistants (PDAs).

However, such apps did not evolve far

past the most basic and utilitarian of

functions (e.g., clocks and calculators)

until the 21st century, when smartphones

evolved to run larger programs.

Additionally, third-generation (3G)

mobile networks made it possible to

Sudoku on a smartphone

Gaming-based apps such as Sudoku have exploded in popularity.

Also called: mobile application

Related Topics: mobile telephone • PDA • tablet computer • smartpho...(Show more)

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Weather app on smartphone

Many smartphones come with a weather app preinstalled on the device.

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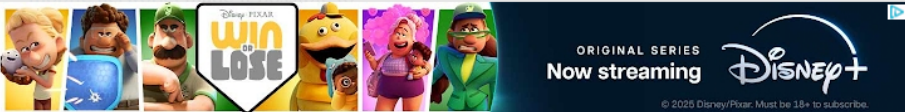
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[mobile networks](#) made it possible to download files larger than [e-mail](#) and [text message](#) apps. Once smartphone manufacturers allowed downloads of mobile apps created by third parties in the 2000s a new industry was born. The resulting explosion in mobile app options for [consumers](#) revolutionized how people work, play, shop, and travel.

As with desktop computers, smartphones are sold with many basic apps preloaded: an e-mail client, a calendar, a [Web browser](#), a weather forecaster, and so on. Additional apps are generally downloaded from online distribution platforms commonly referred to as app stores. The most popular app stores are operated by smartphone companies, such as [Samsung](#) or Huawei, or companies that design their own [operating systems](#) (OS), such as [Apple](#) or [Google](#). The Apple app store was introduced in 2008 and had about 500 apps available, but by 2022 that total had leapt to over 1.7 million apps. Companies that design their own OS have the advantage of preinstalling their store's apps on new devices. Some apps are free, while others require payment. Any revenue generated by an app—whether through an upfront transaction, a monthly subscription, microtransactions, or [advertising](#)—is usually shared between an app's creator and the app store. Consequently, an app's cost may vary based on where it is purchased.

Types of applications

Developers tend to group apps into three types: native, Web-based, and hybrid. Native apps are designed to run off a single [operating system](#) or platform. Since native apps are customized to specific operating systems, they are faster and more secure than [alternatives](#). They are also able to interact with mobile devices' [hardware](#) (e.g., a microphone or camera). Web-based mobile apps, or Web apps, rely on a mobile device's browser to access their features. As a result, they are slower and do not work offline, but they will work with any operating system. Finally, hybrid apps look and function much like native apps but are similar to Web-based apps in that they work on multiple operating systems. Their drawback is that they lack true native apps' power and speed.

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Mobile apps are traditionally characterized by their narrow functionality; they rarely offer as many features and options as their desktop and browser counterparts. One reason for this is that mobile apps have access to less processing power, [memory](#), and storage. Another [limiting factor](#) is connectivity: mobile apps are meant to be accessible over mobile networks, which have their own data and speed issues, particularly in rural areas or [developing countries](#). Finally, there is the [intrinsic](#) difficulty of offering more options on smaller screens while also providing a pleasant and intuitive interface. However, since each app offers only a few features, users can tailor the functionality of their mobile devices to their preferences by being selective with the apps they choose.

Popular Apps

- [TikTok](#) (short-form media)
- [Instagram](#) (photo sharing)
- [Duolingo](#) (language learning)
- [Tinder](#) (dating)
- [Zoom](#) (video-calling)
- [ChatGPT](#) (AI [artificial intelligence] chatbot)
- [Threads](#) (text posts)

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Super-apps

Some countries—particularly in [Asia](#)—have seen the rise of “super-apps,” or widely adopted mobile apps that provide services as varied as messaging, food delivery, [gaming](#), and paying [rent](#). Such apps run on top of the smartphone’s operating system as a secondary platform. While they do possess core features, most of their functionality is obtained by downloading third-party “mini-apps.” Super-apps are advantageous in that users create only one account to enjoy numerous services. However, the mini-apps are slower, since they are not directly running on the device’s operating system, and the user interfaces of super-apps with many mini-apps can be harder to navigate.



WeChat app Considered the oldest super-app, WeChat is used by the Chinese government to conduct mass surveillance.

Moreover, [privacy](#) advocates note that a user’s [data](#) from a super-app can give one



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week 4

Day 18

Day 19

Day 20

Day 21

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Super-apps

Some countries—particularly in [Asia](#)—have seen the rise of “super-apps,” or widely adopted mobile apps that provide services as varied as messaging, food delivery, [gaming](#), and paying [rent](#). Such apps run on top of the smartphone’s operating system as a secondary platform. While they do possess core features, most of their functionality is obtained by downloading third-party “mini-apps.” Super-apps are advantageous in that users create only one account to enjoy numerous services. However, the mini-apps are slower, since they are not directly running on the device’s operating system, and the user interfaces of super-apps with many mini-apps can be harder to navigate.

Moreover, [privacy](#) advocates note that a user’s [data](#) from a super-app can give one company—or a government—an exceptionally detailed picture of that user’s life. The [China](#)-based super-app [WeChat](#), considered to be the oldest super-app, is the primary example, as the service is known to be used by the Chinese government to conduct mass [surveillance](#).

30 DAY HOME WORKOUT CHALLENGE

week 1

Day 1

Day 2

Day 3

Day 4

Day 5

week 2

Day 6

Day 7

Day 8

Day 9

Day 10

week 3

Day 11

Day 12

Day 13

Day 14

Day 15

week 4

Day 16

Day 17

Day 18

Day 19

Day 20

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Adam Volle

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security and protection system

personal and property protection

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