**Hacker**



A [computer](https://en.wikipedia.org/wiki/Computer) **hacker** is any skilled computer expert who uses their technical knowledge to overcome a problem. [While "hacker" can refer to any skilled computer programmer, the term has become associated in popular](https://en.wikipedia.org/wiki/Popular_culture) [culture with a](https://en.wikipedia.org/wiki/Popular_culture) ["security hacker",](https://en.wikipedia.org/wiki/Security_hacker) [someone who, with their technical knowledge, uses](https://en.wikipedia.org/wiki/Popular_culture) [bugs](https://en.wikipedia.org/wiki/Bug_(computing)) [or](https://en.wikipedia.org/wiki/Popular_culture) [exploits](https://en.wikipedia.org/wiki/Exploit_(computer_security)) [to break](https://en.wikipedia.org/wiki/Popular_culture) into computer systems.



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**Definitions**



**General definition**

Reflecting the two types of hackers, there are two definitions of the word "hacker":

1. an adherent of the technology and programming subculture; see [hacker culture.](https://en.wikipedia.org/wiki/Hacker_culture)
2. someone who is able to subvert [computer security.](https://en.wikipedia.org/wiki/Computer_security) If doing so for malicious purposes, the person can also be called a [cracker.](https://en.wikipedia.org/wiki/Security_hacker)[1]



Today, mainstream usage of "hacker" mostly refers to computer criminals, due to the mass media usage of the word since the 1980s. This includes what hacker slang calls ["script kiddies",](https://en.wikipedia.org/wiki/Script_kiddie) people breaking into computers using programs written by others, with very little knowledge about the way they work. This usage has become so predominant that the general public is largely unaware that different meanings exist.[[2]](#page6) While the self-



designation of hobbyists as hackers is generally acknowledged and accepted by computer security hackers, people from the programming subculture consider the computer intrusion related usage incorrect, and emphasize the difference between the two by calling security breakers "crackers" (analogous to a safecracker).

The controversy is usually based on the assertion that the term originally meant someone messing about with something in a positive sense, that is, using playful cleverness to achieve a goal. But then, it is supposed, the meaning of the term shifted over the decades and came to refer to computer criminals.[[3]](#page6)

As the security-related usage has spread more widely, the original meaning has become less known. In popular usage and in the media, "computer intruders" or "computer criminals" is the exclusive meaning of the word today. (For example, "An Internet 'hacker' broke through state government security systems in March.") In the computer enthusiast (Hacker Culture) community, the primary meaning is a complimentary description for a particularly brilliant programmer or technical expert. (For example, ["Linus Torvalds,](https://en.wikipedia.org/wiki/Linus_Torvalds) the creator of [Linux,](https://en.wikipedia.org/wiki/Linux_kernel) is considered by some to be a hacker.") A large segment of the technical community insist the latter is the "correct" usage of the word (see the [Jargon File](https://en.wikipedia.org/wiki/Jargon_File) definition below).



**Representation in mainstream media**

The [mainstream media's](https://en.wikipedia.org/wiki/Mainstream_media) current usage of the term may be traced back to the early 1980s. When the term was introduced to wider society by the mainstream media in 1983, even those in the computer community referred to computer intrusion as "hacking", although not as the exclusive definition of the word. In reaction to the increasing media use of the term exclusively with the criminal connotation, the computer community began to differentiate their terminology. Alternative terms such as ["cracker"](https://en.wikipedia.org/wiki/Security_cracking) were coined in an effort to maintain the distinction between "hackers" within the legitimate programmer community and those performing computer break-ins. Further terms such as ["black](https://en.wikipedia.org/wiki/Black_hat_hacking) hat", ["white hat"](https://en.wikipedia.org/wiki/White_hat_(computer_security)) and ["gray hat"](https://en.wikipedia.org/wiki/Gray_hat) developed when laws against breaking into computers came into effect, to distinguish criminal activities from those activities which were legal.



**Representation in network news**

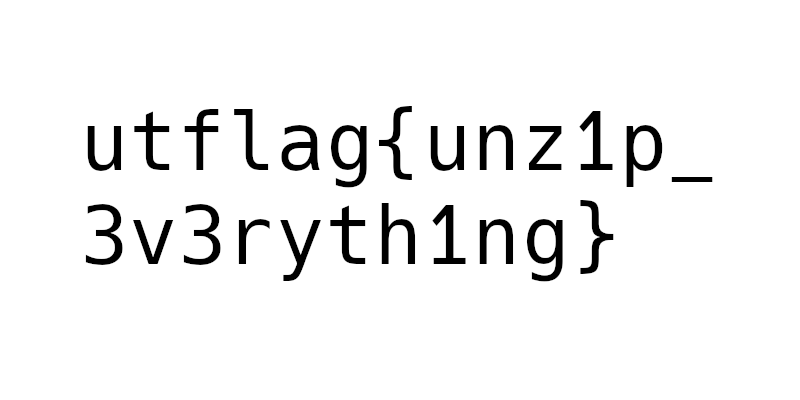
However, network news use of the term consistently pertained primarily to the criminal activities, despite the attempt by the technical community to preserve and distinguish the original meaning, so today the mainstream media and general public continue to describe computer criminals, with all levels of technical sophistication, as "hackers" and do not generally make use of the word in any of its non-criminal connotations. Members of the media sometimes seem unaware of the distinction, grouping legitimate "hackers" such as Linus Torvalds and [Steve Wozniak](https://en.wikipedia.org/wiki/Steve_Wozniak) along with criminal "crackers".[[4]](#page6)



As a result, the definition is still the subject of heated controversy. The wider dominance of the pejorative connotation is resented by many who object to the term being taken from their cultural [jargon](https://en.wikipedia.org/wiki/Jargon) and used



negatively,[[5]](#page6) including those who have historically preferred to self-identify as hackers. Many advocate using the more recent and nuanced alternate terms when describing criminals and others who negatively take advantage of security flaws in software and hardware. Others prefer to follow common popular usage, arguing that the positive form is confusing and unlikely to become widespread in the general public. A minority still use the term in both senses despite the controversy, leaving context to clarify (or leave ambiguous) which meaning is intended.

However, because the positive definition of hacker was widely used as the predominant form for many years before the negative definition was popularized, "hacker" can therefore be seen as a [shibboleth,](https://en.wikipedia.org/wiki/Shibboleth) identifying those who use the technically-oriented sense (as opposed to the exclusively intrusion-oriented sense) as members of the computing community. On the other hand, due to the variety of industries software designers may find themselves in, many prefer not to be referred to as hackers because the word holds a negative denotation in many of those industries.



A possible middle ground position has been suggested, based on the observation that "hacking" describes a collection of skills and tools which are used by hackers of both descriptions for differing reasons. The analogy is made to [locksmithing,](https://en.wikipedia.org/wiki/Locksmithing) specifically picking locks, which is a skill which can be used for good or evil. The primary weakness of this analogy is the inclusion of [script kiddies](https://en.wikipedia.org/wiki/Script_kiddies) in the popular usage of "hacker," despite their lack of an underlying skill and knowledge base.



Sometimes, "hacker" is simply used synonymously with "geek": "A true hacker is not a group person. He's a person who loves to stay up all night, he and the machine in a love-hate relationship... They're kids who tended to be brilliant but not very interested in conventional goals[...] It's a term of derision and also the ultimate compliment."[[6]](#page6)

Fred Shapiro thinks that "the common theory that 'hacker' originally was a benign term and the malicious connotations of the word were a later perversion is untrue." He found that the malicious connotations were

already present at MIT in 1963 (quoting [*The Tech*](https://en.wikipedia.org/wiki/The_Tech_(newspaper)), an MIT student newspaper), and at that time referred to unauthorized users of the telephone network,[[7][8]](#page6) that is, the [phreaker](https://en.wikipedia.org/wiki/Phreaker) movement that developed into the



computer security hacker subculture of today.

**Types**



**Hacker culture**

[Hacker culture](https://en.wikipedia.org/wiki/Hacker_culture) is an idea derived from a community of enthusiast [computer programmers](https://en.wikipedia.org/wiki/Computer_programmer) and [systems designers](https://en.wikipedia.org/wiki/Systems_designer)



in the 1960s around the [Massachusetts Institute of Technology's](https://en.wikipedia.org/wiki/Massachusetts_Institute_of_Technology) (MIT's) [Tech Model Railroad Club](https://en.wikipedia.org/wiki/Tech_Model_Railroad_Club) (TMRC)[[9]](#page6) and the [MIT Artificial Intelligence Laboratory.](https://en.wikipedia.org/wiki/MIT_Artificial_Intelligence_Laboratory)[[10]](#page6) The concept expanded to the hobbyist home computing community, focusing on hardware in the late 1970s (e.g. the [Homebrew Computer Club)](https://en.wikipedia.org/wiki/Homebrew_Computer_Club)[[11]](#page6) and on software



[(video games,](https://en.wikipedia.org/wiki/Video_game)[[12]](#page6) [software cracking,](https://en.wikipedia.org/wiki/Software_cracking) the [demoscene)](https://en.wikipedia.org/wiki/Demoscene) in the 1980s/1990s. Later, this would go on to encompass many new definitions such as art, and [life hacking.](https://en.wikipedia.org/wiki/Life_hacking)



**Security related hacking**

[Security hackers](https://en.wikipedia.org/wiki/Security_hacker) are people involved with circumvention of computer security. Among security hackers, there are several types, including:



[White hats](https://en.wikipedia.org/wiki/White_hat_(computer_security)) are hackers who work to keep data safe from other hackers by finding system [vulnerabilities](https://en.wikipedia.org/wiki/Vulnerability_(computing)) that can be mitigated. White hats are usually employed by the target system's owner and are typically paid (sometimes quite well) for their work. Their work is not illegal because it is done with the system owner's consent.



[Black hats](https://en.wikipedia.org/wiki/Black_hat_hacking) or crackers are hackers with malicious intentions. They often steal, exploit, and sell data, and are



usually motivated by personal gain. Their work is usually illegal. A cracker is like a black hat hacker,[[13]](#page6) but is specifically someone who is very skilled and tries via hacking to make profits or to benefit, not just to

vandalize. Crackers find exploits for system vulnerabilities and often use them to their advantage by either selling the fix to the system owner or selling the exploit to other black hat hackers, who in turn use it to steal information or gain royalties.

[Grey hats](https://en.wikipedia.org/wiki/Grey_hat) include those who hack for fun or to [troll.](https://en.wikipedia.org/wiki/Internet_troll) They may both fix and exploit vulnerabilities, but usually not for financial gain. Even if not malicious, their work can still be illegal, if done without the target system owner's consent, and grey hats are usually associated with [black hat](https://en.wikipedia.org/wiki/Black_hat_(computer_security)) hackers.



**Motives**



Four primary motives have been proposed as possibilities for why hackers attempt to break into computers and networks. First, there is a criminal financial gain to be had when hacking systems with the specific purpose of stealing [credit card numbers](https://en.wikipedia.org/wiki/Credit_card_number) or manipulating [banking systems.](https://en.wikipedia.org/wiki/Banking_system) Second, many hackers thrive off of increasing their reputation within the hacker subculture and will leave their handles on websites they defaced or leave some other evidence as proof that they were involved in a specific hack. Third, corporate espionage allows companies to acquire information on products or services that can be stolen or used as leverage within the marketplace. And fourth, state-sponsored attacks provide nation states with both wartime and intelligence collection options conducted on, in, or through [cyberspace.](https://en.wikipedia.org/wiki/Cyberspace)[[14]](#page6)



**Overlaps and differences**



The main basic difference between programmer subculture and computer security hacker is their mostly separate historical origin and development. However, the *Jargon File* reports that considerable overlap existed for the early phreaking at the beginning of the 1970s. An article from MIT's student paper *The Tech* used the term hacker in this context already in 1963 in its pejorative meaning for someone messing with the phone system.[[7]](#page6) The overlap quickly started to break when people joined in the activity who did it in a less responsible way.[[15]](#page6) This was the case after the publication of an article exposing the activities of Draper and Engressia.

According to Raymond, hackers from the programmer subculture usually work openly and use their real name, while computer security hackers prefer secretive groups and identity-concealing aliases.[[16]](#page6) Also, their activities in practice are largely distinct. The former focus on creating new and improving existing infrastructure (especially the software environment they work with), while the latter primarily and strongly emphasize the general act of circumvention of security measures, with the effective use of the knowledge (which can be to report and help fixing the security bugs, or exploitation reasons) being only rather secondary. The most visible difference in these views was in the design of the MIT hackers' [Incompatible Timesharing System,](https://en.wikipedia.org/wiki/Incompatible_Timesharing_System) which deliberately did not have any security measures.



There are some subtle overlaps, however, since basic knowledge about computer security is also common [within the programmer subculture of hackers. For example, Ken Thompson noted during his 1983 Turing](https://en.wikipedia.org/wiki/Turing_Award) [Award lecture that it is possible to add code to the](https://en.wikipedia.org/wiki/Turing_Award) [UNIX](https://en.wikipedia.org/wiki/UNIX) ["login" command that would accept either the](https://en.wikipedia.org/wiki/Turing_Award) intended encrypted [password](https://en.wikipedia.org/wiki/Password) or a particular known password, allowing a backdoor into the system with the latter password. He named his invention the ["Trojan horse".](https://en.wikipedia.org/wiki/Trojan_horse_(computing)) Furthermore, Thompson argued, the [C compiler](https://en.wikipedia.org/wiki/Compiler) itself could be modified to automatically generate the rogue code, to make detecting the modification even harder. Because the compiler is itself a program generated from a compiler, the Trojan horse could also be automatically installed in a new compiler program, without any detectable modification to the source of the new compiler. However, Thompson disassociated himself strictly from the computer security hackers: "I would like



to criticize the press in its handling of the 'hackers,' the [414 gang,](https://en.wikipedia.org/wiki/The_414s) the Dalton gang, etc. The acts performed by these kids are vandalism at best and probably trespass and theft at worst. ... I have watched kids testifying before Congress. It is clear that they are completely unaware of the seriousness of their acts."[[17]](#page6)



The programmer subculture of hackers sees secondary circumvention of security mechanisms as legitimate if it is done to get practical barriers out of the way for doing actual work. In special forms, that can even be an expression of playful cleverness.[[18]](#page6) However, the systematic and primary engagement in such activities is not one of the actual interests of the programmer subculture of hackers and it does not have significance in its actual activities, either.[[16]](#page6) A further difference is that, historically, members of the programmer subculture of hackers were working at academic institutions and used the computing environment there. In contrast, the prototypical computer security hacker had access exclusively to a home computer and a modem. However, since the mid-1990s, with home computers that could run Unix-like operating systems and with inexpensive internet home access being available for the first time, many people from outside of the academic world started to take part in the programmer subculture of hacking.

Since the mid-1980s, there are some overlaps in ideas and members with the computer security hacking [community. The most prominent case is Robert T. Morris, who was a user of MIT-AI, yet wrote the Morris](https://en.wikipedia.org/wiki/Morris_worm)



[worm. The *Jargon File* hence calls him "a true hacker who blundered".](https://en.wikipedia.org/wiki/Morris_worm)[[19]](#page6) [Nevertheless, members of the](https://en.wikipedia.org/wiki/Morris_worm) programmer subculture have a tendency to look down on and disassociate from these overlaps. They commonly refer disparagingly to people in the computer security subculture as crackers and refuse to accept any definition of hacker that encompasses such activities. The computer security hacking subculture, on the other hand, tends not to distinguish between the two subcultures as harshly, acknowledging that they have much in common including many members, political and social goals, and a love of learning about technology. They restrict the use of the term cracker to their categories of [script kiddies](https://en.wikipedia.org/wiki/Script_kiddie) and black hat hackers instead.



All three subcultures have relations to hardware modifications. In the early days of network hacking, phreaks were building [blue boxes](https://en.wikipedia.org/wiki/Blue_box) and various variants. The programmer subculture of hackers has stories about several hardware hacks in its folklore, such as a mysterious 'magic' switch attached to a PDP-10 computer in MIT's AI lab, that when turned off, crashed the computer.[[20]](#page6) The early hobbyist hackers built their home computers themselves, from construction kits. However, all these activities have died out during the 1980s, when the phone network switched to digitally controlled switchboards, causing network hacking to shift to dialing remote computers with modems, when pre-assembled inexpensive home computers were available, and when academic institutions started to give individual mass-produced workstation computers to scientists instead of using a central timesharing system. The only kind of widespread hardware modification nowadays is [case modding.](https://en.wikipedia.org/wiki/Case_modding)



An encounter of the programmer and the computer security hacker subculture occurred at the end of the 1980s, when a group of computer security hackers, sympathizing with the [Chaos Computer Club](https://en.wikipedia.org/wiki/Chaos_Computer_Club) (which disclaimed any knowledge in these activities), broke into computers of American military organizations and academic institutions. They sold data from these machines to the Soviet secret service, one of them in order to fund his drug addiction. The case was solved when [Clifford Stoll,](https://en.wikipedia.org/wiki/Clifford_Stoll) a scientist working as a system administrator, found ways to log the attacks and to trace them back (with the help of many others). [*23*](https://en.wikipedia.org/wiki/23_(film)), a German film adaption with [fictional elements, shows the events from the attackers' perspective. Stoll described the case in his book *The*](https://en.wikipedia.org/wiki/The_Cuckoo's_Egg) [*Cuckoo's Egg* and in the TV documentary *The KGB, the Computer, and Me* from the other perspective.](https://en.wikipedia.org/wiki/The_Cuckoo's_Egg)According to Eric S. Raymond, it "nicely illustrates the difference between 'hacker' and 'cracker'. Stoll's portrait



of himself, his lady Martha, and his friends at Berkeley and on the Internet paints a marvelously vivid picture of how hackers and the people around them like to live and how they think."[[21]](#page7)

**See also**



[Script kiddie,](https://en.wikipedia.org/wiki/Script_kiddie) an unskilled computer security attacker



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