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**Advantages and Disadvantages of Hacking**

The first reason people should be thankful for hackers is that not all hackers are fixated on breaking into your computer and stealing your data. In fact, hackers see themselves as a group with several subgroups. The black hat hackers are the ones who break into systems for material gain. Gray hat hackers, on the other hand, are in it for personal recognition mostly, but they still break important rules. The white hat hackers really do good work, however, by hacking into sites in order to help those sites test and improve their security so that the other types of hackers cannot gain access so easily. All three groups use the same methods, but their motives are very different

There are many **Benefits** of hacking, I'll list a few:

* Hacking can be used to retrieve lost or accidently encrypted data or information. This can be your some private images to a database of a hospital.
* Hacking can allow for the revelation of bugs and weaknesses in a particular software, which could in turn be used to make the software even stronger. For example, a programmer could test out his/her software by "hacking" it themselves or asking a professional hacker to do it for them.
* Hacking can allow nations to monitor/spy on other nations. Whenever national cybersecurity policy is discussed, the same stories come up repeatedly. Whether the examples are called acts of cyberwar, cyberespionage, hacktivism, or cyberterrorism, they all affect national interest, and there is a corresponding call for some sort of national cyberdefence. Unfortunately, it is very difficult to identify attackers and their motivations in cyberspace. As a result, nations are classifying all serious cyberattacks as cyberwar. This perturbs national policy and fuels a cyberwar arms race, resulting in more instability and less security for everyone. We need to dampen our cyberwar rhetoric, even as we adopt stronger law enforcement policies towards cybersecurity, and work to demilitarize cyberspace
* Hacking can help you become a really good programmer, as you would most likely be aware of the many security threats and weaknesses when creating/updating software. Out of the many skills a hacker has to master, programming is one such skill that tops the list. Hacking involves breaking protocols and exploiting a network; thus, being a hacker requires you to understand the languages of the software that you are focusing on. Having zero coding knowledge will limit your opportunities in the future. Hence, it is imperative to have a knack for programming
* Ethical hacking and legitimate Wi-Fi penetration testing – done in cooperation with the network owner – can help you learn more about the strengths and limitations of wireless security. Understanding potential Wi-Fi vulnerabilities can help you to better protect the networks you manage and ensure safer connections when you access other wireless networks

Keep in mind that there are many types of hackers, and you cannot judge all of them based on what a single one does. According to my understanding, when the general society today hears about a hacker on the news, they assume that all hackers are bad, bad people. This is why many true hackers prefer to be called "penetration testers" instead.

White hat hackers attempt to hack for good reasons, black hat hackers attempt to hack for malicious reasons, and grey hat hackers attempt to attack for both good and bad reasons.

**Drawbacks**

Hacking is quite dangerous if it is done with harmful intent. It can cause −

* Data breaches can be far more than a temporary terror — they may change the course of your life. Businesses, governments, and individuals alike can experience huge complications from having sensitive information exposed. Whether you are offline or online, hackers can get to you through the internet, Bluetooth, text messages, or the online services that you use. Without proper attention to detail, a small vulnerability can cause a massive data breach. Since many people are unaware of how common modern security threats work, they don’t give it enough attention.
* Unauthorized access, it a criminal action whereby someone uses a computer to knowingly gain access to data in a system without permission to access that data on private information..
* Many hackers breech inside a network and steal passwords, which will be used or sold, perform industrial espionage, or commit simple misuse.
* Another disadvantage to hacking is that hackers create viruses and worms that have code fragments and attach the, to other “programs” or “machines” and attempt to shut down networks by flooding them with massive amounts bogus traffic. These are usually done through email.
* Hackers also use Trojan horses that are attached to downloads, so once they are opened they kick of a virus, steal a password, and give the hacker control of the PC .
* Hackers do not even have to gain internal access to a network to bring it down. Instead they use denial of service (DOS) attacks by flooding the access routers with traffic, which tend to be more difficult to block because they use multiple, changing, source IP addresses.

Many of these disadvantages are more geared towards companies that have their own networks. On the other hand, people who do not belong to companies can also find themselves in danger.

* Hackers can find clients or customer information, from a company’s business. With this they can find credit card details and social security numbers .They can also access passwords for online bank and can even get children’s names, photographs, ages and other personal details on anyone’s computer.

Anyone who uses a computer connected to the Internet is susceptible to the threats that computer hackers and online predators pose. These online villains typically use phishing scams, spam email or instant messages and bogus websites to deliver dangerous malware to your computer and compromise your computer security.

Computer hackers can also try to access your computer and private information directly if you are not protected by a firewall. They can monitor your conversations or peruse the back-end of your personal website. Usually disguised with a bogus identity, predators can lure you into revealing sensitive personal and financial information, or much worse.

**Conclusion**

So far, hacking as a method for construction of information systems and software artifacts has been precluded from serious study and consideration. The term itself is also poorly understood, surrounded by much prejudice, folklore and mythology.

The word "hacker" carries weight. People strongly disagree as to what a hacker is. Hacking may be defined as legal or illegal, ethical or unethical. The media’s portrayal of hacking has boosted one version of discourse.

My belief is that "hacking" deserves to be put on the map as a viable method for the creation of construction of information systems and software artifacts. It should be studied alongside other system development methods, and practitioners in the field of system development should be aware of its applicability and able to take advantage of its "bag of tricks" when appropriate

Hacking is a good computing skill that can be used for good or bad intention. There is reason to do the hack, and there are ways to prevent it

In my own view understanding the different perspective of a hacker, we can develop a much more secure and much more sophisticated environment and provide a safer world for transactions and online shopping. The bad things of them should be taken into good only to benefit our country and its progress

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