

Computer Science for High School

(CS4HS) Cybersecurity Virtual Workshop



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Cyber Ethics

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About Maria

- Recipient of the President's Caring Bengal Award – April 2018
- What personal philosophy about working with others guides your day-to-day work? My personal philosophy about working with others is to practice ethical judgment and to put my best efforts forward with integrity.
- <https://professionaldevelopment.buffalostate.edu/maria-garrity>



Why teach Cyber Ethics in Schools

- **Why?** We believe in defining and exhibiting moral and ethical courage to make positive judgements with the use of computer technology.
- **How?** We teach and grow by being visionaries, having strong communication skills and setting a moral example for everyone.
- **Who am I?**
- Want to be a Cyber Ethics Educator

Keep these points in mind as we further explore Cyber Ethics



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Words have impactful meanings...

- **First, we are going to start out by defining the words CYBER and ETHICS**
- **Cyber** - relating to, or involving computers or computer networks (such as the Internet)
- The earliest extraction from the word cyber that came into common usage was cyberspace.

<https://www.merriam-webster.com/dictionary/cyber>



Some Cyber words...

- **Cyberspace** – First used in 1982 in a short story, cyberspace now refers to anything associated with the internet.
- **Cybersecurity** – The first use of cybersecurity as a word dates to 1989.
- **Cybercrime** – There are many forms of cybercrime from financial fraud to cyberstalking, cyberdefamation, theft, forgery, and any criminal mischief involving the internet.
- **Cyberdefense** – Also known as cybersecurity, it's the detection, prevention, and response to cybercrime. It more often relates to military and government systems.



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More cyber words...

- **Cyberops** – Short for cyber operations, is a specialization of information security that is in high demand within areas of the government and military, including the National Security Agency who have the knowledge needed prevent, detect, analyze, and respond to cybersecurity incidents
- **Cyberbullying**- the use of electronic communication to bully a person, typically by sending messages of a hurtful or threatening nature.
- **CyberEthics** – defined in upcoming slides

https://en.wiktionary.org/wiki/Category:English_words_prefixed_with_cyber-



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What is Ethics

- **Ethics** from Merriam-Webster dictionary - the discipline dealing with what is good and bad with moral duty and obligation.

Ethics vs Morals: Is there a difference?

- *Ethics* and *morals* are both used in the plural and are often regarded as synonyms, but there is some distinction in how they are used.



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Ethics moral principles that govern a person's behavior or the conducting of an activity.

- For example: Our class had a debate over the *ethics* of generic testing.

While ***Morals*** often describes one's particular values concerning what is right and what is wrong.

- For example: It would go against my *morals* to help you cheat on the test.

Put the two words together: Cyber Ethics

Cyber - relating to, or involving computers or computer networks

+

Ethics - moral principles that govern a person's behavior

=

CyberEthics - refers to the code of responsible behavior on the Internet.



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The Basic Rule

The basic rule of cyber ethics is "***Do not do something in cyberspace that you would consider wrong, hurtful or illegal in everyday life.***"

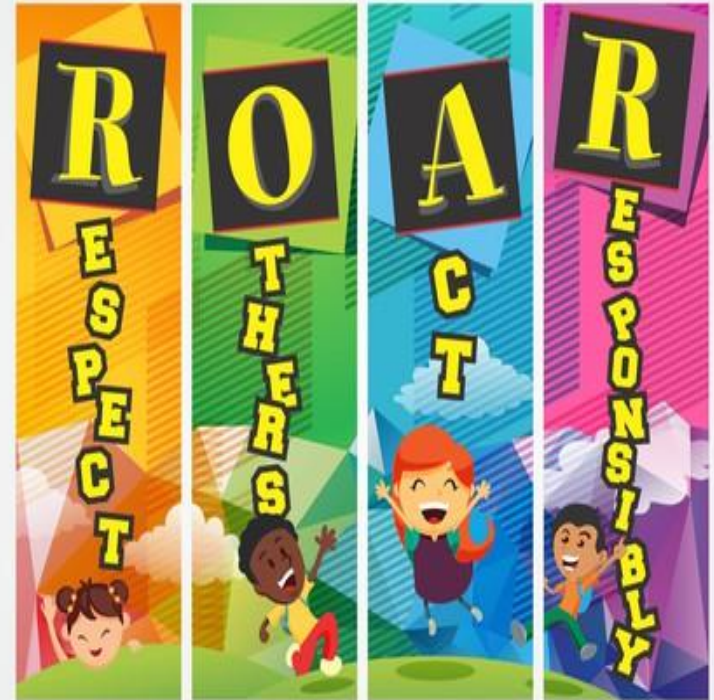


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Cyber ethics behavior

Behaving responsibly is a growing problem, and without using the resources available, it would be difficult to prepare future generations of internet users from being safe online.

Respect Others Act Responsibly



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Considerations When Determining Responsible Behavior

- Do not use rude or offensive language.
- Do not cyberbully.
- Do not plagiarize.
- Do not break into someone else's computer.
- Do not use someone else's password.
- Do not attempt to infect or in any way try to make someone else's computer unusable.
- Be careful downloading material

<https://www.cisecurity.org/daily-tip/know-the-rules-of-cyber-ethics/>



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Difference online vs offline

Is there a difference between ethics in the real world and ethics online? **NO!**

- While the answer to this question might seem obvious to teachers, for many students, there is a very real—and potentially dangerous—disconnect between ethics in the real world and cyberspace.
- A recent poll found that nearly half of the middle and high school students who responded said they don't believe hacking is a big crime. Therefore, we must teach cyber ethics in schools for better awareness.



What can parents/teachers do

- **Communication:** The most obvious strategy involves taking the time to talk with students about acceptable and unacceptable online behavior.
- **Modeling:** When online, model ethical behavior and point out areas where ethical behavior makes a difference. Show students right from wrong by example.

https://www.cerias.purdue.edu/assets/pdf/k-12/infosec_newsletters/07cyberethics.pdf



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Internet is a privilege not a right

- Educate the students by discussing these issues is the best way to make sure they don't use the Internet in a harmful or malicious way.

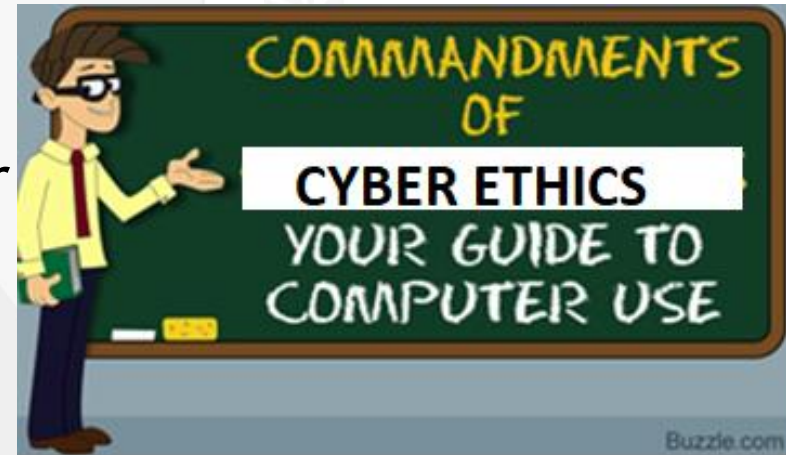
https://www.cerias.purdue.edu/assets/pdf/k-12/infosec_newsletters/07cyberethics.pdf



10 Commandments of Cyber Ethics

Ten Commandments of Cyber Ethics
Created by the Computer Ethics
Institute

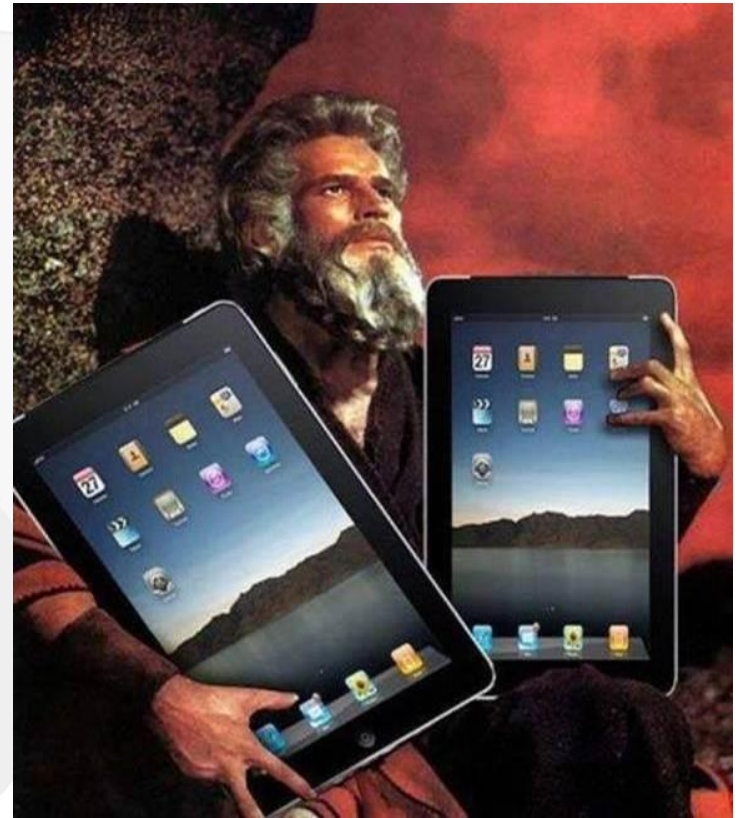
1. Thou Shalt Not Use A Computer To Harm Other People.
2. Thou Shalt Not Interfere With Other People's Computer Work.
3. Thou Shalt Not Snoop Around In Other People's Computer Files.
4. Thou Shalt Not Use A Computer To Steal.
5. Thou Shalt Not Use A Computer To Bear False Witness. Always tell the truth.



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10 Commandments of Cyber Ethics 6-10

6. Thou Shalt Not Copy Or Use Software For Which You have Not Paid.
7. Thou Shalt Not Use Other People's Computer Resources Without Authorization.
8. Thou Shalt Not Take Other People's Intellectual Output.
9. Thou Shalt Think About The Social Consequences Of The Program You Are Writing Or The System You Are Designing.
10. Thou Shalt Always Use A Computer In Ways That Insure Consideration And Respect For Your Fellow Humans.



<http://computerethicsinstitute.org/publications/tencommandments.html>

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CyberBullying

- Cyberbullying is a form of bullying using electronic means. Cyberbullying and cyberharassment are also known as online bullying. It has become increasingly common, especially among teenagers, as the digital avenue has expanded, and technology has advanced.

Resources on how to get help:

- <https://www.stopbullying.gov/resources/get-help-now>



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CyberBullying Contacts

Cyberbullying

A student is being bullied in school, contact a:

- Teacher
- School counselor
- School principal
- School superintendent
- State Department of Education



<https://www.stopbullying.gov/resources/get-help-now>



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CyberBullying Effects

Effects of Cyberbullying

- Depression
- Isolation
- Anger
- Illness
- Humiliation
- Suicidal



<https://www.verywellfamily.com/what-are-the-effects-of-cyberbullying-460558>



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CyberBullying Movies

5 Top movies on Cyberbullying

When parents or teachers want to open a discussion about bullying or, more specifically, cyberbullying, it's best to find a platform that teens can relate to. And what's better than something that they are already love: movies!

1. Cyberbully - Watch Cyberbully
Youtube: https://www.youtube.com/watch?v=D_glFO12QFs
2. The Duff - Watch the trailer: <https://www.youtube.com/watch?v=ci7eKlNRiuw>
3. The Odd girl out - Watch the movie
Youtube: <https://www.youtube.com/watch?v=dQFFp8tGdeA>
4. Adina's Deck - Learn more about Adina's Deck <https://adinadeck.com/>
5. Watch Cyberbully British TV
Youtube: <https://www.youtube.com/watch?v=SkGXzw9QzFI>



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CyberBullying Statistics for 2020

Cyberbullying is a real problem in today's society.

- Overall, **36.5 percent** of people feel they have been cyberbullied in their lifetime, and **17.4 percent** have reported it has happened at some point in the last 30 days. ^[1]
- These numbers are more than double what they were in 2007, and both represent an increase from **2018-2019**, suggesting we are heading in the wrong direction when it comes to stopping cyberbullying. ^[2]
- **87 percent** of young people have seen cyberbullying occurring online. ^[3]



<https://www.broadbandsearch.net/blog/cyber-bullying-statistics>



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CyberBullying internet usage

In total, 95 percent of teens are connected to the internet, and 85 percent are social media users, according to a study from the Pew Research Center.



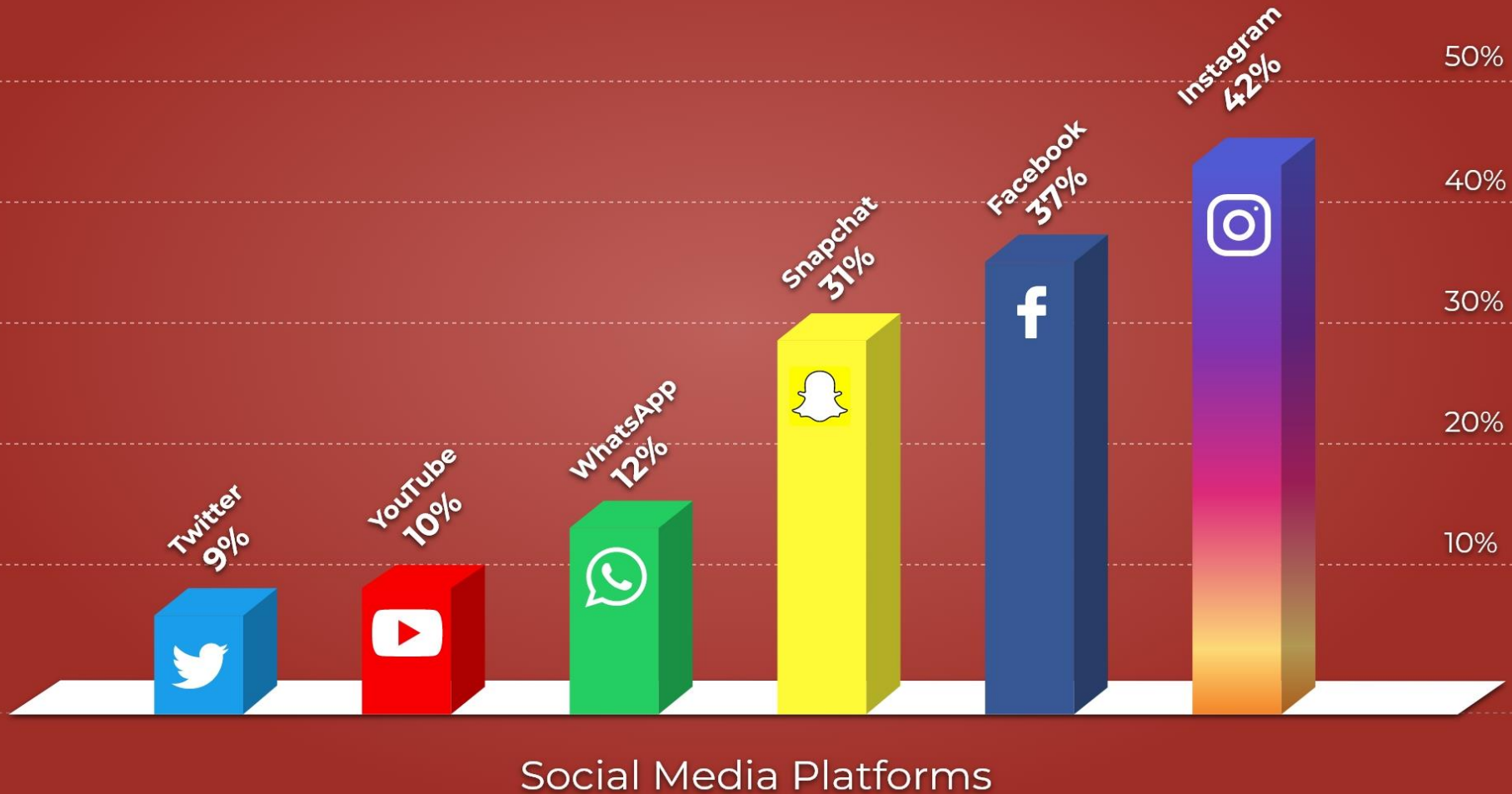
<https://www.broadbandsearch.net/blog/cyber-bullying-statistics>



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Social Media CyberBullying Stats

Where are People Cyberbullied?



CyberStalking

Cyberstalking is a form of Cyberbullying, but it is a criminal offense.

- It refers to the crime of using the Internet, email, or other types of electronic communications to follow, harass, or threaten another person. Cyberstalking most often involves sending harassing emails, instant or text messages, or social media posts, or creating websites for the sole purpose of tormenting the victim.



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Forms of CyberStalking

Cyberstalking cases differ from regular stalking in that it is technologically based, though some cyberstalkers escalate their harassment to include physical stalking as well. There are several forms of cyberstalking, including:

- Harassing and/or following the victim
- Embarrassing and humiliating the victim
- Exerting financial control by emptying the victim's bank accounts, or by ruining his credit
- Isolating the victim by harassing his family, friends, and employer
- Frightening the victim by using scare tactics and threats

<https://legaldictionary.net/cyberstalking/>



Example of CyberStalking - Taylor Swift

- A Florida man, who recently got out of jail for cyberstalking Taylor Swift in New York City, was arrested again for allegedly searching social media sites and finding out where she lived and where she was going and broke into the pop star's Manhattan home.
- He was booked on suspicion of burglary, criminal contempt, criminal mischief and possession of burglary tools, police said. He was released from jail Feb. 5, 2019, after serving a six-month sentence for breaking into Swift's home April 20, 2018.

<https://www.nbcnews.com/news/us-news/taylor-swift-stalker-arrested-again-breaking-her-nyc-home-n980511>



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Examples of Stalking and Cyberstalking

Usually it is a male that stalks a female, but there are cases where it's in reverse.

- **David Letterman** - The woman, Margaret Mary Ray, 46, was sentenced to prison several times for harassing David Letterman by trespassing on his property in Connecticut., breaking into his house, and trying to reach him by telephone and in person.
- **Alec Baldwin** - Canadian actress Genevieve Sabourin was sentenced 7-months in jail after a judge found her guilty of cyberstalking in Nov. 2013. The actress consistently hounded Baldwin with emails and insisted that they were involved in a romantic relationship, which Baldwin denied.

<https://www.nytimes.com/1998/10/07/nyregion/the-woman-who-stalked-letterman-is-a-suicide.html>



Interactive Review Discussion

- What is Cyber Ethics?
- Why is it important to teach cyber ethics in schools?
- What is the basic rule of cyber ethics?
- What is CyberBullying?
- Some effects of CyberBullying?
- Who do you talk to if you are being CyberBullied?
- What is CyberStalking?
- What does ROAR stand for?
- Is there a difference between ethics in the real world and ethics online?
- How many commandments of Cyber Ethics?



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Discussion 2

- You find your friend's mobile device unlocked and they left it on their desk. You are very curious to check out their emails or social media posts.
- You know no one will find out if you look at the content in the phone.
- **What do you do?**
- **What do you do if the phone rings?**



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Discussion 3

- You found a website that you can listen to songs from online.
- You know it is legal and ok to listen to the songs online for free.
- You discover that there is a bug in the website, and it is allowing you to download the songs to your personal device.



What will you do?

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Quick Cyber Ethics Quiz

Google forms quick quiz of 10 questions for review.

<https://forms.gle/19pc4ZjzdyK1tbgw7>



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Questions/ Comments



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