

COMPUTER NETWORKS INTERNETS

6TH EDITION

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What is internet in computer networks? The internet, sometimes simply called the net, is a worldwide system of interconnected computer networks and electronic devices that communicate with each other using an established set of protocols.

What is computer network class 6? A computer network (Figure 10.2) is an interconnection among two or more computers or computing devices. Such interconnection allows computers to share data and resources among each other.

What is the difference between the internet and the computer network? A network is a connection of two or more computers or devices that allows for internal communication and collaboration between the users of those devices. The internet is a global connection of multiple networks that allows a user to access information and data remotely.

What are the nuts and bolts of internet in computer networks? The nuts and bolts of computer networking include data transmission, error detection, shared media, flow control, routing, network services, terminal support, file transfer, security, and standards.

What exactly is Internet? The internet is a worldwide computer network that transmits a variety of data and media across interconnected devices. It works by using a packet routing network that follows Internet Protocol (IP) and Transport Control Protocol (TCP). [5]

What type of network is Internet? Answer and Explanation: The internet is a very good example of a public WAN (Wide Area Network). One distinction of WAN as

compared to other types of networks is that it involves or covers a very large area, like a whole country or even the whole world.

How do you explain computer networking? Computer networking refers to interconnected computing devices that can exchange data and share resources with each other. These networked devices use a system of rules, called communications protocols, to transmit information over physical or wireless technologies. Let's answer some common computer networking FAQs.

What are examples of computer networks?

What are the four main types of computer networks?

How does internet and computer networks work together? Computers connect to each other and to the Internet via wires, cables, radio waves, and other types of networking infrastructure. All data sent over the Internet is translated into pulses of light or electricity, also called "bits," and then interpreted by the receiving computer.

Is Wi-Fi a computer network? Wi-Fi is a wireless networking technology that allows devices such as computers (laptops and desktops), mobile devices (smart phones and wearables), and other equipment (printers and video cameras) to interface with the Internet.

What does IP address mean? An Internet Protocol (IP) address is the unique identifying number assigned to every device connected to the internet. An IP address definition is a numeric label assigned to devices that use the internet to communicate.

What are the 3 major types of cable used in computer networking? Twisted pair, coaxial cables and fiber optic cable are three major network cable types in the communication systems. They have different cable structions, speed, bandwidth, and applications. All of them will benefit both in our daily life and in network construction work.

What two main pieces of hardware are needed to connect to the Internet? To connect to the internet, all you require is a modem, a wireless router, a computer or smartphone, and an internet connection from an internet service provider.

What are the main purpose of bolts and nuts? Main Use of Bolts and Nuts Bolts and nuts are used to permanently or semi-permanently fasten materials, usually metal. A nut is an attachment that fits the end of a bolt and strengthens its holding power. The bolt, which is non-tapered, then holds the part fastened with the nut.

Who keeps the Internet running? Background. No one person, company, organization or government runs the Internet. It is a globally distributed network comprising many voluntarily interconnected autonomous networks. It operates without a central governing body with each constituent network setting and enforcing its own policies.

Which is the most commonly used network protocol? While there are many different types of network protocols, Transmission Control Protocol (TCP) is one of the most widely used due to its ability to break down data into packets so they can be transferred (you can read more about TCP further below).

What is Internet in basic words? The Internet is a global network of billions of computers and other electronic devices. With the Internet, it's possible to access almost any information, communicate with anyone else in the world, and do much more.

Is internet a LAN or WAN? The Internet itself is a type of WAN, because it covers the entire globe. Although a network connecting LANs in the same city, like a group of offices belonging to the same company, are usually called metropolitan area networks.

What are the three things you need to access the Internet? There are three ingredients needed to access the Internet from a laptop or desktop computer: (1) an ISP, (2) a modem and (3) a Web browser.

What is the difference between the Internet and the network? A network refers to a collection of connected devices within a limited area, such as a home, office, or campus. On the other hand, the internet is a global network of networks, spanning the entire planet and connecting billions of devices across diverse locations.

What is the full meaning of Internet? What is the INTERNET? INTERNET stands for ~~Interconnected Network is a network system that connects millions of web~~

servers. The full meaning of the INTERNET can also be explained by the bunch of websites of different organisations, schools, institutions and more. With the help of the INTERNET, the world is connected.

What is the basic of the Internet? The basic function of the internet is to move computerized data from one place to another. This happens as the internet is decentralized, i.e. not under any control. Every computer or device is an independent host and the information just moves from one host to another via the internet.

What is the Internet of Things in computer networks? The term IoT, or Internet of Things, refers to the collective network of connected devices and the technology that facilitates communication between devices and the cloud, as well as between the devices themselves.

What is intranet in computer networks? An intranet is a private network contained within an enterprise that is used to securely share company information and computing resources among employees. An intranet can also be used for working in groups and teleconferences. Intranets encourage communication within an organization.

Under the Feet of Jesus by Helena Maria Viramontes

Paragraph 1:

Question: What is the novel "Under the Feet of Jesus" about?

Answer: The novel follows the struggles and experiences of a Mexican-American family living in East Los Angeles. It explores themes of poverty, social injustice, and the search for identity.

Paragraph 2:

Question: Who is the main protagonist of the novel?

Answer: Estrella, a young woman who is juggling her family responsibilities with her personal desires.

Paragraph 3:

Question: What is the significance of religion in the novel?

Answer: Religion plays a central role in the lives of the characters. While the family is devoutly Catholic, they also struggle to reconcile their faith with the harsh realities of their lives.

Paragraph 4:

Question: How does the novel depict the experiences of Mexican-Americans?

Answer: Viramontes vividly portrays the challenges faced by Mexican-Americans, including poverty, discrimination, and cultural assimilation. She highlights the strength and resilience of immigrant communities in the face of adversity.

Paragraph 5:

Question: What is the message of "Under the Feet of Jesus"?

Answer: The novel exposes the social and economic inequalities that marginalized communities face. It also emphasizes the importance of family, cultural identity, and the struggle for a better life. Through the experiences of Estrella and her family, Viramontes encourages readers to question social norms and fight for a more just society.

Schrödinger's Quantum Mechanics: Unraveling Mysteries with Precise Solutions

Question 1: What is Schrödinger's quantum mechanics? **Answer:** Schrödinger's quantum mechanics is a groundbreaking theory that describes the behavior of particles on a quantum level. It provides a mathematical framework for calculating the probability of finding a particle in a particular state, offering insights into the behavior of subatomic particles and atoms.

Question 2: How does Schrödinger's equation work? **Answer:** Schrödinger's equation is a differential equation that describes the temporal evolution of the quantum state of a particle. It allows scientists to determine the wave function of a particle, which contains information about its state and behavior. By solving Schrödinger's equation, they can predict the probability of various outcomes in

quantum experiments.

Question 3: What are some applications of Schrödinger's quantum mechanics? **Answer:** Schrödinger's quantum mechanics has numerous applications, including:

- Understanding the formation of atoms and molecules
- Explaining the behavior of semiconductors in electronic devices
- Designing laser technologies
- Developing quantum computing and entanglement-based communication

Question 4: What are the limitations of Schrödinger's equation? **Answer:** Schrödinger's equation does have some limitations, such as:

- It does not account for special relativity effects.
- It assumes a static potential, which may not always be true.
- It may not be applicable to all quantum systems, such as those involving many particles.

Question 5: What advancements have been made in solving Schrödinger's equation? **Answer:** Researchers have developed various techniques to solve Schrödinger's equation, including:

- Numerical methods, such as the finite element method
- Variational methods, such as the Hartree-Fock method
- Path integral methods, such as the Feynman-Kac formula

These advancements have enabled scientists to solve increasingly complex quantum systems and gain deeper insights into the behavior of matter on a subatomic level.

What are three methods of Jazz improvisation? There are four essential approaches: sequences, arpeggios, scalar improvisation and neighboring (and leading) tones. A sequence is a pattern played using the same intervallic and melodic structure on various degrees of a scale.

How to improve jazz improv?

How do jazz musicians learn improvisation? It's all about preparation and being in the moment. Just like a great conversationalist, an accomplished improviser is equal parts experience, practice, and creative inspiration. You must react and respond to the players and situations around you with your knowledge, ears, and practiced technique.

How to improvise jazz solo?

What are the 7 techniques of improvisation?

What are the 5 distinctive approaches to improvisation?

What happens to your brain during Jazz improvisation? Limb and Braun discovered that when musicians played memorized scales, their brains looked very different than when they were riffing off the same scale—when they were improvising, in other words. During improvisation, the dorsolateral prefrontal cortex decreased in activity and the medial prefrontal cortex increased.

What skills must jazz musicians have to improvise successfully?

How long does it take to learn to improvise jazz? Learning how to improvise is not an overnight process. It's a lifetime of practice, but that doesn't mean you can't rapidly improve and have a ton of fun in the process! There is a TON of information here about learning how to improvise, so take your time and don't feel overwhelmed.

Is jazz just random notes? Can You Just Play Any Note in Jazz? (Why Jazz is Literally Not Random) The answer, of course, is no. But yes. As we've seen, spontaneity and improvisational soloing are key features of the jazz genre, but there is a lot of skill – both theory and practice – that goes into being an effective improvisational jazz player.

Are jazz solos always improvised? In fact, spontaneity has always characterized Jazz music's finest improvisers. But there's more to Jazz than just improvisation. Composers such as Duke Ellington and Charles Mingus wrote occasional Jazz compositions practically devoid of improvisation.

What is improvised jazz singing called? Scat-singing is a common technique employed by jazz singers, in which they improvise melodic lines over the chord changes to form a vocal solo, much like horn players. Scat lines are usually wordless, instead using syllables to create articulation and rhythmic flow.

What is the key of Jazz improvisation? If you want to become a great jazz improviser, just learn jazz standards. Jazz standards are the vehicles in which jazz musicians use to improvise and communicate with each other. They contain all the common chord progressions and language you need to be able to communicate.

Should you clap after a jazz solo? What the-? It's all about tradition. Audiences generally show their appreciation for jazz soloists immediately after each solo. For orchestral or symphonic band works with multiple movements, wait until the end of the entire piece to applaud.

How can I practice jazz technique? Practice everything – scales, licks, voicings, improvisation and songs – in every key, especially your weak keys. Accuracy is more important than speed – so practice everything slowly. Speed will come naturally if you are accurate. Only gradually build up speed – this will help you learn to think fast.

What are the three main types of improvisation? Based on this data, we first identified three types of improvisation skills: imitative, reactive, and generative improvisation. Imitative improvisation, exhibited by the least-experienced players, consists of observing what more-experienced people are doing and matching their responses with minimal variation.

What are the 3 parts of an improvisation scene? The audience immediately connects with a character by what they see on stage. Improv characters are quickly built on three common elements: how they move, how they sound, how they think. Moving beyond these three elements usually requires more time than a usual improv scene has.

What are the 3 elements of the jazz style? The distinctive elements of jazz include characteristic rhythm patterns, harmonic practices related to, but not identical with, functional harmony, and the practice of improvisation.

What are the 3 fundamentals of jazz? The key elements of Jazz include: blues, syncopation, swing and creative freedom.

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