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character encoding wikipedia Jun 26 2022 character encoding is the process of assigning numbers to graphical characters especially the written characters of human language allowing them to be stored transmitted and transformed using digital computers the numerical values that make up a character encoding are known as code points and collectively comprise a code space a code page or a character map

trie wikipedia Jan 10 2021 in computer science a trie also called digital tree or prefix tree is a type of k ary search tree a tree data structure used for locating specific keys from within a set these keys are most often strings with links between nodes defined not by the entire key but by individual characters in order to access a key to recover its value change it or remove it the trie is traversed depth

knowledge distillation wikipedia Oct 07 2020 in machine learning knowledge distillation is the process of transferring knowledge from a large model to a smaller one while large models such as very deep neural networks or ensembles of many models have higher knowledge capacity than small models this capacity might not be fully utilized it can be computationally just as expensive to evaluate a model even if it utilizes little

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sampling signal processing wikipedia May 26 2022 in signal processing sampling is the reduction of a continuous time signal to a discrete time signal a common example is the conversion of a sound wave to a sequence of samples a sample is a value of the signal at a point in time and or space this definition differs from the usage in statistics which refers to a set of such values a sampler is a subsystem or operation that

classroom resources national council of teachers of mathematics Feb 20 2022 when students become active doers of mathematics the greatest gains of their mathematical thinking can be realized both members and non members can engage with resources to support the implementation of the notice and wonder strategy on this webpage

power supply wikipedia Nov 07 2020 power supplies are packaged in different ways and classified accordingly a bench power supply is a stand alone desktop unit used in applications such as circuit test and development open frame power supplies have only a partial mechanical enclosure sometimes consisting of only a mounting base these are typically built into machinery or other equipment

lossless compression wikipedia Jul 28 2022 lossless compression is a class of data compression that allows the original data to be perfectly reconstructed from the compressed data with no loss of information lossless compression is possible because most real world data exhibits statistical redundancy by contrast lossy compression permits reconstruction only of an approximation of the original

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row compression implementation sql server microsoft learn Sep 25 2019 nov 18 2022 when datetime is compressed like any other integer compression saves 2 bytes in the date date no uses the integer data representation by using 3 bytes this represents the date from 1 1 0001 for contemporary dates row compression uses all 3 bytes this achieves no savings time no uses the integer data representation by using 3 to 6 bytes

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data compression wikipedia Feb 08 2021 in information theory data compression source coding or bit rate reduction is the process of encoding information using fewer bits than the original representation any particular compression is either lossy or lossless lossless compression reduces bits by identifying and eliminating statistical redundancy no information is lost in lossless compression

computer science scitech connect elsevier Jan 28 2020 computer science computing functionality is ubiquitous today this logic is built into almost any machine you can think of from home electronics and appliances to motor vehicles and it governs the infrastructures we depend on daily telecommunication public utilities transportation

rfc 1951 deflate compressed data format specification Oct 26 2019 rfc 1951 deflate compressed data format specification may 1996 is compatible with the file format produced by the current widely used gzip utility in that conforming decompressors will be able to read data produced by the existing gzip compressor the data format defined by this specification does not attempt to allow random access to compressed data compress

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collage wikipedia Jun 22 2019 collage k ə ' l α: ʒ from the french coller to glue or to stick together is a technique of art creation primarily used in the visual arts but in music too by which art results from an assemblage of different forms thus creating a new whole compare with pastiche which is a pasting together a collage may sometimes include magazine and newspaper clippings

home page journal of the american college of radiology Nov 19 2021 jul 06 2022 the official journal of the american college of radiology jacr informs its readers of timely pertinent and important topics affecting the practice of diagnostic radiologists interventional radiologists medical physicists and radiation oncologists

medical imaging wikipedia Sep 05 2020 medical imaging is the technique and process of imaging the interior of a body for clinical analysis and medical intervention as well as visual representation of the function of some organs or tissues medical imaging seeks to reveal internal structures hidden by the skin and bones as well as to diagnose and treat disease medical imaging also establishes a database of normal