aData MA 97 languages Contents hide Article Taik Read Edit View history Tools VV Appearance hide (Top, From Wikipedia, Ihe free encyclopedia Text among "Scientific data" redirects here. Not to be conflued with Scientific Data (control) of space and Datum (2) standara. <sup>14</sup> Data documents (disambiguation) is there and a collection in common usage, standara. <sup>14</sup> Data documents (disambiguation) of (1) standard and collection in common usage, standara in the computer science). For other uses, see Data (disambiguation) and Datum (2) of the collection of the computer science of the collection of the science of the common usage, and the collection of the computer science of the collection of the science of the collection of the collection of the collection of the collection of the science of the collection of

Before the development of computing devices and machines, people had to manually collect data and sort or inpose patterns on it. With the development of computing devices and machines, hese devices can also collect data. In the 2010s, computers were widely used in many fields to collect data and sort or process it, in disciplines ranging from marking, analysis of social service usage by citizena to acientific research. These patterns in the data are seen as information that can be used to enhance knowledge. These patterns may be interpreted as "thut influence black influence as ubjective concept) and may be authorized as aesihetic and ethical criteria in some disciplines or cultures. Events that leave beining proceedule physical our vitual remains can be traced back hirolyhold data. Marks are no longer considered data once the link between the mark and observation is broken [1] Mechanical computer source as binary aphabet, that is, an alphabet of two characters typically denoted "0" of "1". More familiar representiations, such as numbers or tetres are then constructed from the binary aphabet. Some special forms of data are distinguished. A computer program is a collection of data, that can be interpreted as instructions. Most computer bing magaes, notably Lips and similar languages programs are essentially indistinguishable from other data. It is also useful to distinguish metadata, that is, a description of chre data is she library catalog, which is a description of the contents of boots bad documents sci). Whenever data needs to be registered, data axisis in the torn of CRESS data documents. Hindle software) are indexed in Data Clains metadata, that can be interpreted as only any phase indexed on Data Clains metadata. In the contents of boots bad documents and the metadata is the library catalog, which is a description of the contents of boots bad documents and the metadata is the library catalog, which is a description of the contents of traditions ablogges and the scince of these data doc

go, Joris Toonders (July 23, 2014). "Data is the New Oil of the Digital Economy" ccumulate over time resulting from the synthesis of data into information, can then be described as nowledge. Data has been described as "the new oil of the digital economy" ["I¥] Data, as a general oncept, refers to the fact that some existing information or knowledge is represented or coded in some orm suitable for better usage or processing Advances in computing technologies have led to the dvent of big data, which usually refers to very large quantities of data, usually at the petabyte scale Using traditional data analysis methods and computing, working with such large (and growing) datasets is difficult, even impossible. (Theoretically speaking, infinite data would yield infinite information, which would render extracting insights or intelligence impossible.) In response, the relatively new field of data science uses machine learning (and other artificial intelligence (AI) methods that allow for efficient applications of analytic methods to big data. Etymology and terminology edt Further information: Data (word) The Latin word data is the plural of datum, "(thing) given," and the neuter past participle of dare, "to give" (€I The first English use of the word "data" is from the 1640s. The word "data" was first used

Theath transmissible and storable computer information in the storage short data processing was first used in 1954 [6] When "data" is used more generally as a synonym for "information, itis treated as a mass noun in singular form. This usage is common in everyday language and in technical and scientific fields such as software development and computer science. One example of this usage is the term "big data". When used more specifically to refer to the processing and analysis of sets of data, the term retains its plural form. This usage is common in the natural sciences, life sciences, social sciences, software development and computer science, and grew in popularity in the 20th and 21st centuries. Some style guides do not recognize the different meanings of the term and simply recommend the form that best suits the target audience of the guide. For example, APA style as of the 7th edition requires "data" to be treated as a plural form [7] Meaning edi] See also: DIKW pyramid = Data, information, knowledge, and wisdom are closely related concepts, but each | Sieg Sia = HE TS has its role concerning the other, and each term has its meaning. According to a Tr CA ee common view, data is collected and analyzed: data only becomes information SEE suitable for making decisions once it has been analyzed in some fashion [°] One BT fers can say that the extent to which a set of data is informative to someone depends EE FE on the extent to which its unexpected by that person. The amount of information [a ER] ho HI 53 contained in a data stream may be characterized by its Shannon entropy. EAE EI i i EI HFH TEE E REEL Knowledge is the awareness of the environment that communicates a ar SEE Er E precisely-measured value. This measurement may be included in a book along i EEE IY b with other data on Mount Everest to describe the mountain in a manner useful for [A + # " 2 § PR those who wish to decide on the best method to climb it. Awareness of the Adrien Auzout's "A TABLE of © characteristics represented by this data is knowl