Types of Data Compression

Types of Data Compression

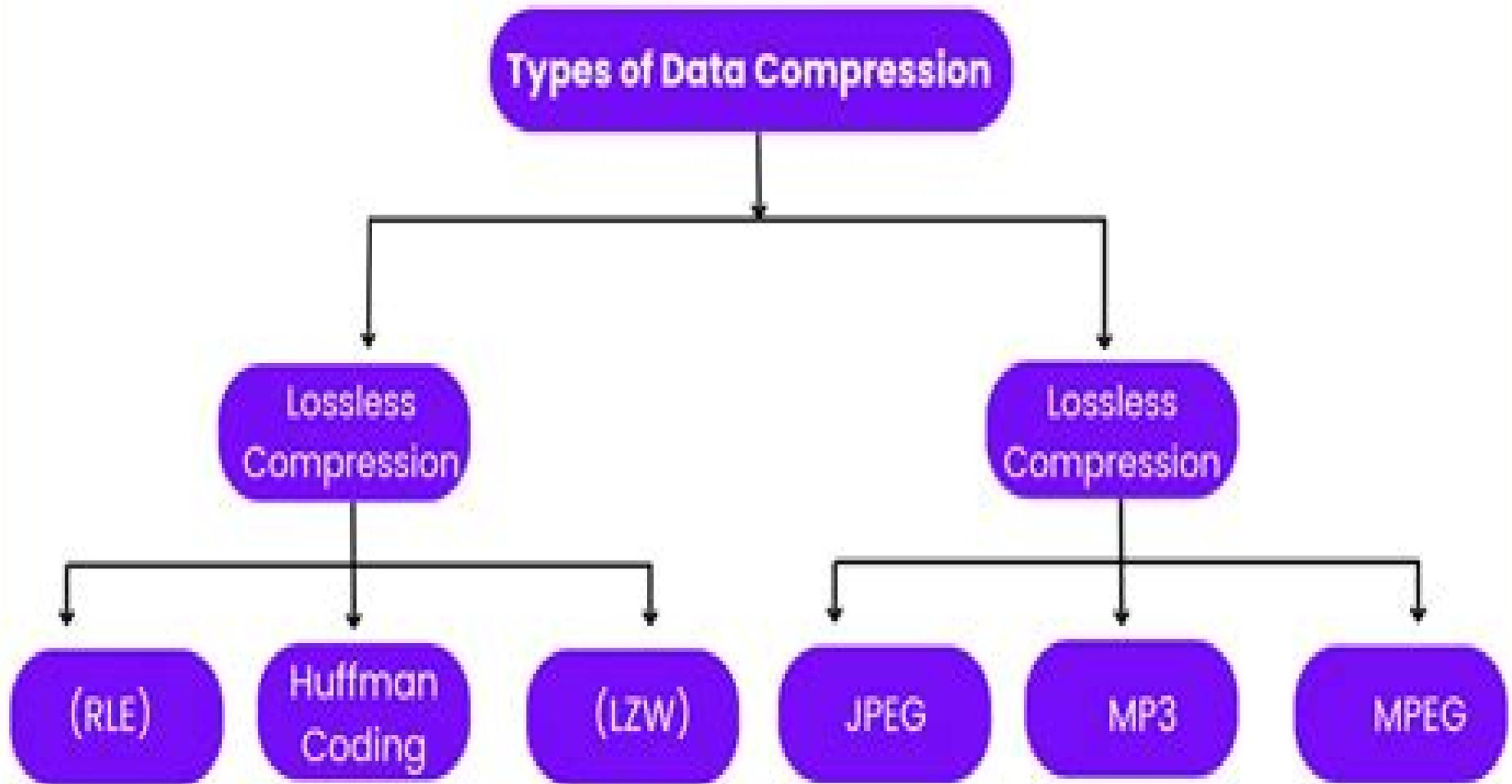Lossless Compression

Lossless Compression

(RLE)

Huffman Coding

(LZW)

JPEG

MP3

MPEG

The Data Compression

Sabine Zange

The Data Compression:

Introduction to Data Compression Khalid Sayood,2000 And the downloadable software gives you the opportunity to see firsthand how various algorithms work to choose and implement appropriate techniques in your own applications and to build your own algorithms BOOK JACKET   Data Compression David Salomon,2004-02-26 A comprehensive reference for the many different types and methods of compression including a detailed and helpful taxonomy an analysis of the most common methods and discussions on their use and comparative benefits The presentation is organized into the main branches of the field run length encoding statistical methods dictionary based methods image compression audio compression and video compression Detailed descriptions and explanations of the most well known and frequently used methods are covered in a self contained fashion with an accessible style and technical level for specialists and nonspecialists In short the book provides an invaluable reference and guide for all computer scientists computer engineers electrical engineers signal image processing engineers and other scientists needing a comprehensive compilation for a broad range of compression methods

Data Compression David Salomon,2013-03-09 Data compression is one of the most important techniques in computing engineering From archiving data to CD ROMs and from coding theory to image analysis many facets of computing make use of data compression in one form or another This book is intended to provide an overview of the many different types of compression it includes a taxonomy an analysis of the most common systems of compression discussion of their relative benefits and disadvantages and their most common usages Readers are presupposed to have a basic understanding of computer science essentially the storage of data in bytes and bits and computing terminology but otherwise this book is self contained The book divides naturally into four main parts based on the main branches of data compression run length encoding statistical methods dictionary based methods and lossy image compression where in contrast to the other techniques information in the data may be lossed but an acceptable standard of image quality retained Detailed descriptions of many of the most well known compression techniques are covered including Zip BinHex Huffman coding GIF and many others   *A Concise Introduction to Data Compression* David Salomon,2007-12-18 This clearly written book offers readers a succinct foundation to the most important topics in the field of data compression Part I presents the basic approaches to data compression and describes a few popular techniques and methods that are commonly used to compress data The reader will discover essential concepts Part II concentrates on advanced techniques such as arithmetic coding orthogonal transforms subband transforms and Burrows Wheeler transform This book is the perfect reference for advanced undergraduates in computer science and requires a minimum of mathematics An author maintained website provides errata and auxiliary material   Data Compression in Digital Systems Roy Hoffman,2012-12-06 Data compression is now indispensable to products and services of many industries including computers communications healthcare publishing and entertainment This invaluable resource introduces this area to information system managers and others who need to understand how it is

changing the world of digital systems For those who know the technology well it reveals what happens when data compression is used in real world applications and provides guidance for future technology development   *The Data Compression Book* Mark Nelson,Jean-Loup Gailly,1995-12-14 The Data Compression Book Second Edition The Data Compression Book is the most authoritative guide to data compression techniques available This second edition has been updated to include fractal compression techniques and all the latest developments in the compression field All the code in the previous edition has been updated to run with today s compilers and has been tested on multiple platforms to ensure flawless performance You ll learn to write C programs for nearly any environment as you explore different compression methods Nelson and Gailly discuss the theory behind each method and apply the techniques involved to shrink data down to a minimum Each technique is illustrated with a complete functional C program that not only demonstrates how data compression works but it also can be incorporated into your own data compression programs You ll also get detailed benchmarks demonstrating the speed and compression ability of each technique The code in this book has been tested on a variety of platforms and compilers including Microsoft Visual C 1 5 with MS DOS 5 0 and 6 22 Borland C 4 0 and 4 5 with MS DOS 5 0 and 6 22 Symantec C 6 0 and 7 0 with MS DOS 5 0 Interactive Unix System 3 2 with the portable C compiler Solaris 2 4 with the SunSoft compiler and Linux 1 1 with the Gnu C Compiler Topics Include The Shannon Fano and Huffman coding techniques Adaptive Huffman coding techniques Lossy compression The JPEG compression algorithm Fractal compression techniques Arithmetic coding Dictionary compression methods   Data Compression--a Comparison of Methods Jules Aronson,1977   Handbook of Data Compression David Salomon,Giovanni Motta,2010-01-18 Data compression is one of the most important fields and tools in modern computing From archiving data to CD ROMs and from coding theory to image analysis many facets of modern computing rely upon data compression This book provides a comprehensive reference for the many different types and methods of compression Included are a detailed and helpful taxonomy analysis of most common methods and discussions on the use and comparative benefits of methods and description of how to use them Detailed descriptions and explanations of the most well known and frequently used compression methods are covered in a self contained fashion with an accessible style and technical level for specialists and non specialists   *The Data Compression Book* Mark Nelson,1991 An authoritative guide for advanced C programmers Details various data compression techniques explaining the theory behind each and showing readers how to apply them to significantly increase their system s storage capacity MS PC DOS disk contains sample source code   A Guide to Data Compression Methods David Salomon,2013-03-20 In 1829 Louis Braille a young organist in a Paris church blind since age 3 invented the well known code for the blind still in common use today all over the world and named after him Braille himself modified his code in 1834 and there have been several modifications since However the basic design of this code where each character is represented by a group of 3 x 2 dots has remained intact The dots are embossed on thick paper and each can be raised or flat i e present or absent Each dot

is therefore equivalent to one bit of information As a result the Braille code Figure 1 is a 6 bit code and can therefore represent 64 symbols the code of six flat dots indicates a blank space Braille s followers extended the capabilities of his code in several ways One im portant extension is contractions These are letters that when they stand alone mean words For example the letter b standing alone or with punctuation means the word but the letter e standing alone means every and p means people Another extension is short form words These are combinations of two or more codes that mean an entire word short form words may contain contractions For example ab means about rcv means receive and the mvs means themselves The the in parentheses is a contraction dots 2 3 4 6 Figure 2 shows some examples of these special codes **Data Compression Techniques and Applications** Thomas J. Lynch,1985 There is a growing interest in applying data compression techniques to actual data and communication systems in the commercial military and government agency sectors In each potential application there is a need to learn what compression techniques are available how they operate and what the implementation considerations are for each technique This book provides this information and serves as a reference for practicing communication engineers computer scientists information scientists and data systems managers No experience in data compression is necessary to use this book each compression technique is described separately and fully and the theoretical background developed so outside references are not needed **Understanding Compression** Colt McAnlis,Aleks Haecky,2016-07-13 If you want to attract and retain users in the booming mobile services market you need a quick loading app that won t churn through their data plans The key is to compress multimedia and other data into smaller files but finding the right method is tricky This witty book helps you understand how data compression algorithms work in theory and practice so you can choose the best solution among all the available compression tools With tables diagrams games and as little math as possible authors Colt McAnlis and Aleks Haecky neatly explain the fundamentals Learn how compressed files are better cheaper and faster to distribute and consume and how they ll give you a competitive edge Learn why compression has become crucial as data production continues to skyrocket Know your data circumstances and algorithm options when choosing compression tools Explore variable length codes statistical compression arithmetic numerical coding dictionary encodings and context modeling Examine tradeoffs between file size and quality when choosing image compressors Learn ways to compress client and server generated data objects Meet the inventors and visionaries who created data compression algorithms **Image and Text Compression** James A. Storer,2012-12-06 James A Storer Computer Science Dept Brandeis University Waltham MA 02254 Data compression is the process of encoding a body of data to reduce stor age requirements With Lossless compression data can be decompressed to be identical to the original whereas with lossy compression decompressed data may be an acceptable approximation according to some fidelity criterion to the original For example with digitized video it may only be necessary that the decompressed video look as good as the original to the human eye The two primary functions of data compression are Storage The capacity of a storage device can be

effectively increased with data compression software or hardware that compresses a body of data on its way to the storage device and decompress it when it is retrieved Communications The bandwidth of a digital communication link can be effectively increased by compressing data at the sending end and decom pressing data at the receiving end Here it can be crucial that compression and decompression can be performed in real time   **Introduction to Data Compression** Khalid Sayood,2012-10-04 Introduction to Data Compression Fourth Edition is a concise and comprehensive guide to the art and science of data compression This new edition includes all the cutting edge updates the reader will need during the work day and in class It provides an extensive introduction to the theory underlying today s compression techniques with detailed instruction for their applications using several examples to explain the concepts Encompassing the entire field of data compression this book covers lossless and lossy compression Huffman coding arithmetic coding dictionary techniques context based compression scalar and vector quantization New to this fourth edition is a more detailed description of the JPEG 2000 standard as well as speech coding for internet applications A source code is also provided via a companion web site that gives readers the opportunity to build their own algorithms choose and implement techniques in their own applications This text will appeal to professionals software and hardware engineers students and anyone interested in digital libraries and multimedia New content added to include a more detailed description of the JPEG 2000 standard New content includes speech coding for internet applications Explains established and emerging standards in depth including JPEG 2000 JPEG LS MPEG 2 H 264 JBIG 2 ADPCM LPC CELP MELP and iLBC Source code provided via companion web site that gives readers the opportunity to build their own algorithms choose and implement techniques in their own applications   *Data Compression* Gilbert Held,Thomas R. Marshall,1991-08 Provides professionals and students with a path to faster data transmission times and reduced transmission costs with its in depth examination of practical and easy to implement data compression techniques Retaining all data compression fundamentals from the first two editions the Third Edition expands to include information on the structure and operation of several popular compression algorithms new to the market including Microcom Networking Protocol MNP Class 5 data compression and MNP Class 7 Enhanced Data Compression Numerous methods to enhance the efficiency of both character oriented and statistical compression techniques are included as is a new chapter on character compression that discusses three methods to be used to obtain the special compression indicating character   **Fundamental Data Compression** Ida Mengyi Pu,2005-11-03 Fundamental Data Compression provides all the information students need to be able to use this essential technology in their future careers A huge active research field and a part of many people s everyday lives compression technology is an essential part of today s Computer Science and Electronic Engineering courses With the help of this book students can gain a thorough understanding of the underlying theory and algorithms as well as specific techniques used in a range of scenarios including the application of compression techniques to text still images video and audio Practical exercises projects and exam questions reinforce learning along with

suggestions for further reading Dedicated data compression textbook for use on undergraduate courses Provides essential knowledge for today s web multimedia applications Accessible well structured text backed up by extensive exercises and sample exam questions **Data Compression** Gilbert Held,1991 **Data Compression - Exploring New Techniques** Debashis Chakraborty,Sandipan Bera,Sutirtha Ghosh,2012-05 Our project comprises of analysis of the existing algorithms for data compression so that we can utilize some features of these algorithms use them to build a more efficient algorithm We have also considered detailed study to observe the efficiency of the algorithms for different document types with the intention of building a comprehensive data compression technique We need to study and analyze all the algorithms separately to incorporate the positives from each of them and try to rectify the flaws that exist in these algorithms For clear elucidation of the data compression concepts we try to discuss each standard algorithm in detail There is a close connection between machine learning and compression a system that predicts the posterior probabilities of a sequence given its entire history can be used for optimal data compression by using arithmetic coding on the output distribution while an optimal compressor can be used for prediction by finding the symbol that compresses best given the previous history This equivalence has been used as justification for data compression as a benchmark for general intelligence **1995 Science Information Management and Data Compression Workshop** James Charles Tilton,1995 Abstract This workshop explored promising computational approaches for handling the collection ingestion archival and retrieval of large quantities of data in future Earth and space science missions It consisted of fourteen presentations covering a range of information management and data compression approaches that are being or have been integrated into actual or prototypical Earth or space science data information systems or that hold promise for such an application **Data Compression in Digital Systems** R. Hoffman,2012-11-01 This book is about compressing data to make digital systems work more effi ciently According to the dictionary when something is compressed it is con densed squeezed constricted or pressed together to fit into less space Air is compressed for a variety of useful purposes Businesses are downsized to make them more efficient We pack our daily schedules tighter and tighter to accomplish more Who has not crushed an empty soda can for recycling Many different things can be compressed including the data in computers communications links consumer electronics gear and all sizes and shapes of digital systems Are you curious about how data compression squeezes the air out of digital bits Would you like to know where it is used and increasingly why the marketplace demands it be used Would you like to learn the right way to build data compres sion into your products Then this book is for you This exciting technology and its importance for current and future digital systems are explained in easy to understand terms No previous knowledge of data compression is required because the necessary technical background is carefully developed Neither is an extensive understanding of mathematics be cause there are few equations and important ideas are graphically illustrated If you read any of the popular or professional monthly magazines that cover the latest advances in digital systems your background is adequate If you

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