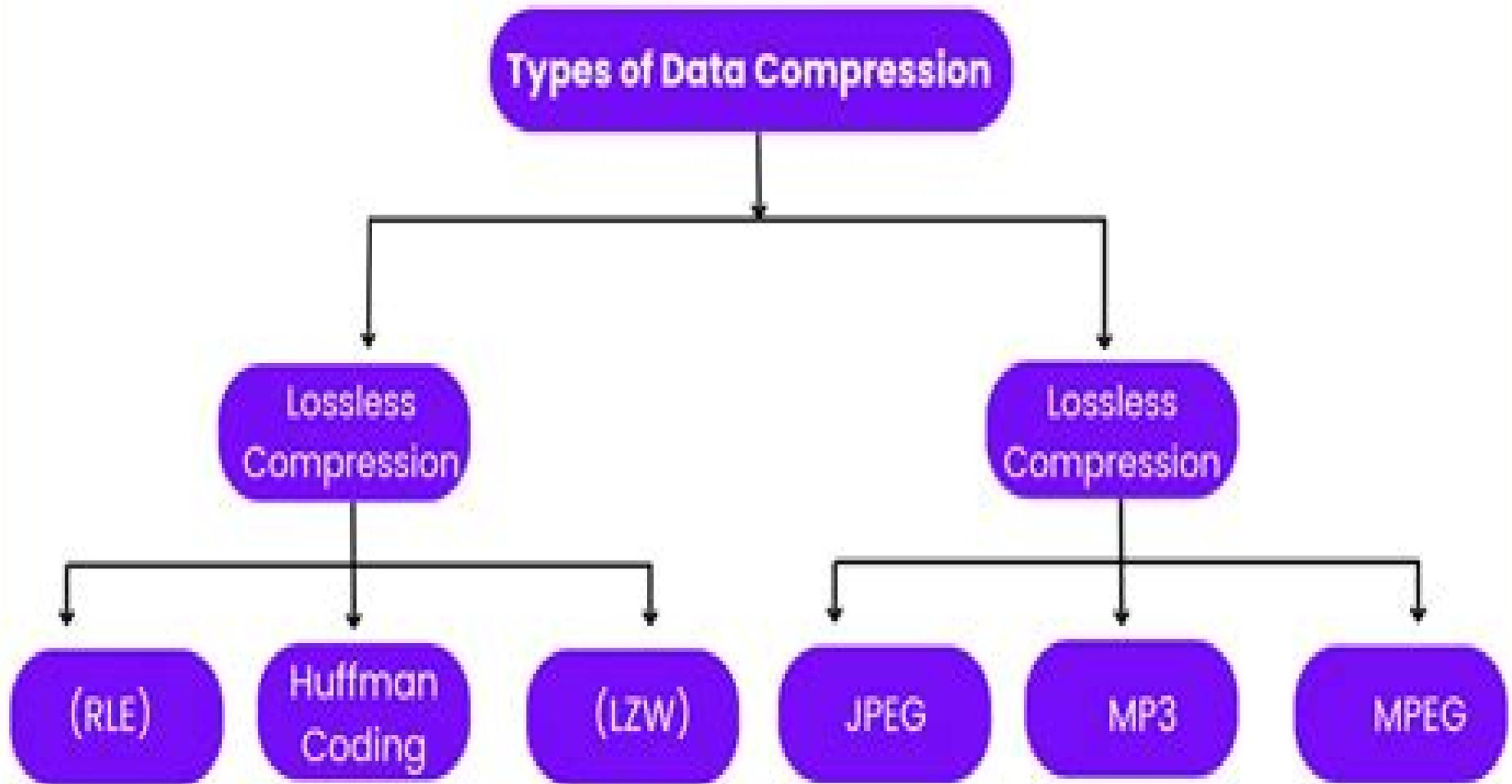


Types of Data Compression



The Data Compression

Gilbert Held, Thomas R. Marshall



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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

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--a Comparison of Methods](#) Jules Aronson,1977 *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

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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 decompressing data at the receiving end Here it can be crucial that compression and decompression can be performed in real time

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

Introduction to Data Compression Khalid Sayood, 2012-10-16 Mathematical preliminaries for lossless compression Huffman coding Arithmetic coding Dictionary techniques Context based compression Lossless image compression Mathematical preliminaries for lossy coding Scalar quantization Vector quantization Differential encoding Mathematical preliminaries for transforms subbands and wavelets Transform coding Subband coding Wavelets Wavelet based image compression Audio coding Analysis synthesis and analysis by synthesis schemes Video compression Probability and random processes A brief review of matrix concepts The root lattices

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 Data Compression in Digital Systems R. Hoffman,2012-11-01 This book is about compressing data to make digital systems work more efficiently According to the dictionary when something is compressed it is condensed 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 compression 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 because 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 understand this preface you are ready to tackle this book **Data compression : techniques and applications ; hardware and software considerations** Thomas R. Marshall,Gilbert Held,1983

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