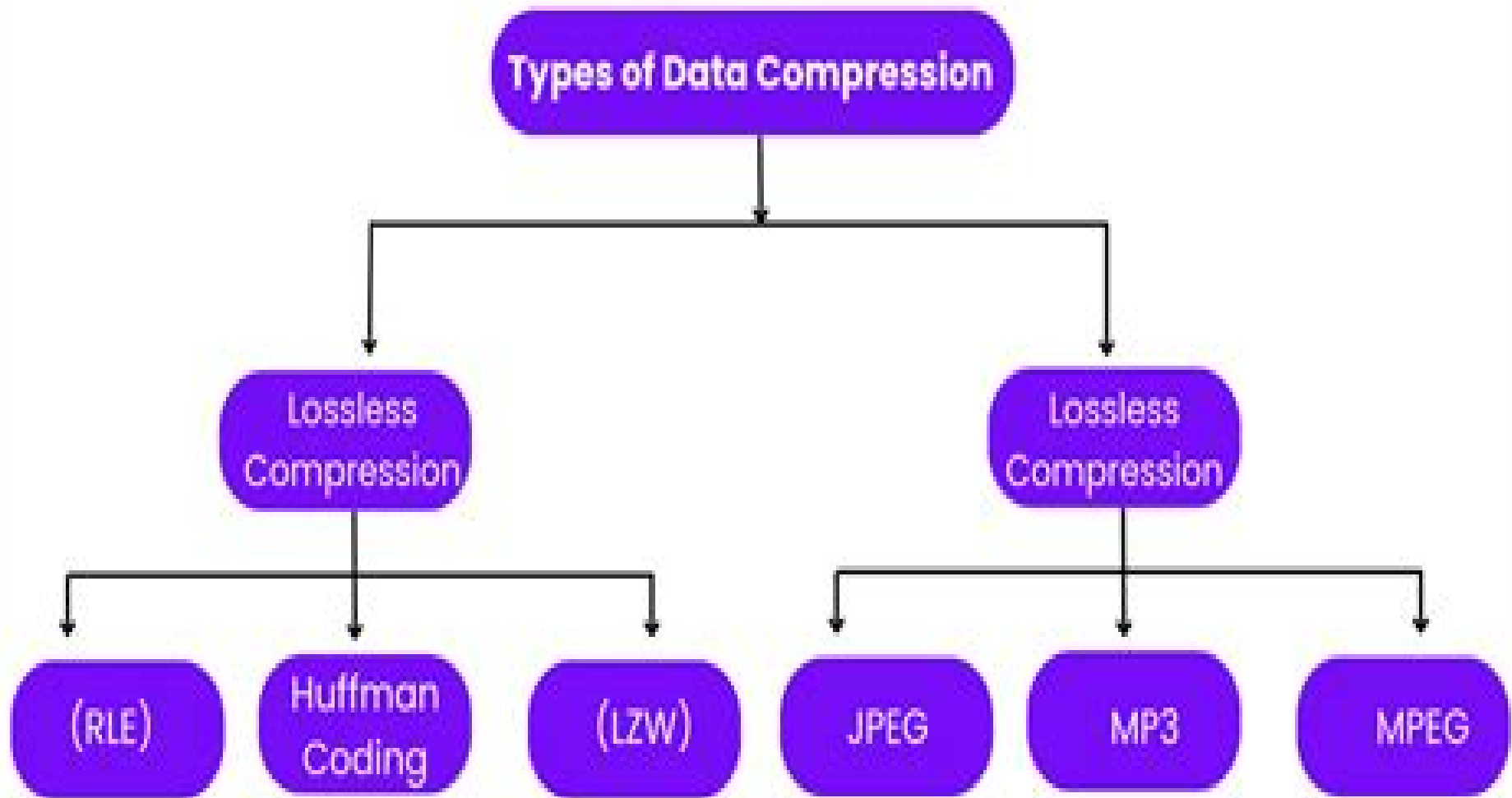


# Types of Data Compression



# The Data Compression

**David Salomon**



## **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, 2007-03-20 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 nonspecialists Comments and suggestions of many readers have been included as a benefit to future readers and a website is maintained and updated by the author *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 *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      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      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

**Data Compression--a Comparison of Methods** Jules Aronson, 1977      **Data Compression** David Salomon, 1998 Data compression is one of the most important tools in modern computing and there has been tremendous progress in all areas of the field This fourth edition of Data Compression provides an all inclusive thoroughly updated and user friendly reference for the many different types and methods of compression especially audio compression an area in which many new topics covered in this revised edition appear Among the important features of the book are a detailed and helpful taxonomy a detailed description of the most common methods and discussions on the use and comparative benefits of different methods The book's logical clear and lively presentation is organized around the main branches of data compression      **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 important 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

**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, Thomas R. Marshall, 1987 About 95% of all data transmission consists of blanks strings of spaces numeric and alphabetic repetitions not only buzzing through the airways but also embedded in a large number of data bases In this book the author shows how to increase the efficiency and cut the cost of data transmission and storage through the application of practical data compression routines

**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

**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 storage 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

**The Transform and Data Compression Handbook** Kamisetty Ramam Rao, Patrick C. Yip, 2018-10-03 Data compression

is one of the main contributing factors in the explosive growth in information technology. Without it, a number of consumer and commercial products such as DVD, videophone, digital camera, MP3, video streaming, and wireless PCS would have been virtually impossible. Transforming the data to a frequency or other domain enables even more efficient compression. By illustrating this intimate link, *The Transform and Data Compression Handbook* serves as a much needed handbook for a wide range of researchers and engineers. The authors describe various discrete transforms and their applications in different disciplines. They cover techniques such as adaptive quantization and entropy coding that result in significant reduction in bit rates when applied to the transform coefficients. With clear and concise presentations of the ideas and concepts as well as detailed descriptions of the algorithms, the authors provide important insight into the applications and their limitations. Data compression is an essential step towards the efficient storage and transmission of information. *The Transform and Data Compression Handbook* provides a wealth of information regarding different discrete transforms and demonstrates their power and practicality in data compression.

**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** Gilbert Held, 1991      **A Guide to Data Compression Methods** David Salomon, 2002-02-08 A concise guide of essential data compression methods and algorithms for text, audio, and imaging data.

**Studies on Techniques in Data Compression** Jarmo Ernvall, 1984      **Data Compression in Digital Systems** R. Hoffman, 2014-05-14 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

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