

## Code

Overview of various encoding techniques, focusing on transforming information into symbolic representations like Morse code, fixed-length, and variable-length codes. It also discusses the principles of encoding systems used in technology and communication.

### Shannon-Fano method

The Shannon-Fano method is a basic data compression technique where symbols are arranged by their probability of occurrence. The goal is to assign shorter codes to more frequent symbols, optimizing data encoding efficiency

### Encoding integers

Explains various methods for encoding integers, focusing on binary representation and how to handle both positive and negative numbers using sign-magnitude and two's complement methods. It includes practical examples, such as converting between decimal and binary systems and performing arithmetic with binary numbers.

### BCD encoding

### Fixed-Point Number Representation

### Floating-Point representation

### Parity Check

### Error detection and correction

### Reed-Solomon codes

### Huffman codes

### RLE coding

### LZW coding

### Multimedia compression

### Jpeg compression

### Mpeg compression

### Character encoding

### UTF-8 encoding

### Base64 coding

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