

# Matlab code for lzw Compression Technique.

Posted on [April 5, 2012](#)

This code is for lzw compression technique. If you have any problem in understanding this code, do step by step execution and see what are the changes in variables shown in workspace window of matlab.

```
clear;
clear all;
close all;
datain=input('enter the string in single quote with symbol $ as End of string
='); %input data
lda=length(datain); %length of datainput
dictionary=input('enter the dictionary in single quote (symbol used in string
are to be included)='); %input dictionary
ldi=length(dictionary); %length of dictionary
j=1; %used for generating code
n=0; %used for
%loop used for string array to cell array conversion
for i=1:lda
    dictnew(i)=(dictionary(i));
end

p=datain(1); %first symbol
s=p; %current symbol
k=1; %used for generating transmitting output code
i=1; %for loop
n=0;
while datain(i) ~= '$' %end of symbol
    c=datain(i+1);
    if c ~= '$'
        comb=strcat(s,c); %just for see combination
        if strcmp(dictnew, strcat(s,c)) == 0
            dictnew(j+ldi)=(strcat(s,c));
            %loop and check used for generating transmitting
            %code array
            check=ismember(dictnew,s);
            for l=1:length(check)
                if check(l) == 1
                    tx_trans(k)=1;
                    k=k+1;
                    break;
                end
            end

            s=c;
            j=j+1;
            i=i+1;
            n=n+1;
        end
    end
end
```

# Matlab Code Lzw Image Compression

**Jicheng Xie**



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## **Table of Contents Matlab Code Lzw Image Compression**

1. Understanding the eBook Matlab Code Lzw Image Compression
  - The Rise of Digital Reading Matlab Code Lzw Image Compression
  - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Code Lzw Image Compression
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Matlab Code Lzw Image Compression
  - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab Code Lzw Image Compression
  - Personalized Recommendations
  - Matlab Code Lzw Image Compression User Reviews and Ratings
  - Matlab Code Lzw Image Compression and Bestseller Lists
5. Accessing Matlab Code Lzw Image Compression Free and Paid eBooks
  - Matlab Code Lzw Image Compression Public Domain eBooks
  - Matlab Code Lzw Image Compression eBook Subscription Services

- Matlab Code Lzw Image Compression Budget-Friendly Options
- 6. Navigating Matlab Code Lzw Image Compression eBook Formats
  - ePub, PDF, MOBI, and More
  - Matlab Code Lzw Image Compression Compatibility with Devices
  - Matlab Code Lzw Image Compression Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Matlab Code Lzw Image Compression
  - Highlighting and Note-Taking Matlab Code Lzw Image Compression
  - Interactive Elements Matlab Code Lzw Image Compression
- 8. Staying Engaged with Matlab Code Lzw Image Compression
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Matlab Code Lzw Image Compression
- 9. Balancing eBooks and Physical Books Matlab Code Lzw Image Compression
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Matlab Code Lzw Image Compression
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Matlab Code Lzw Image Compression
  - Setting Reading Goals Matlab Code Lzw Image Compression
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matlab Code Lzw Image Compression
  - Fact-Checking eBook Content of Matlab Code Lzw Image Compression
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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