

# SOURCE CODING PROJECT

National School of applied  
sciences

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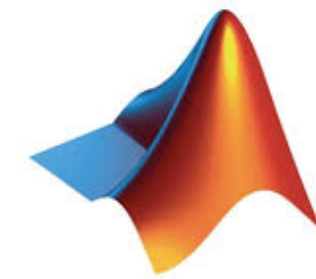
**01** Introduction and Objective

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**03** Demonstration Video

# INTRODUCTION

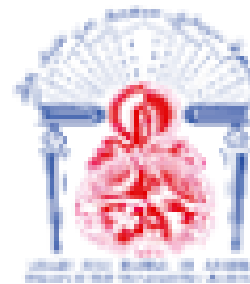
# MATLAB-APP-DESIGNER



The image shows a screenshot of a MATLAB App window. The window title bar reads "MATLAB App" with standard minimize, maximize, and close buttons. The main content area is a white rectangular box with a thin black border. Inside this box, the header contains the name of the institution in Arabic and French, followed by its logo (a red emblem with a crown and Arabic calligraphy), and then the name in French and Arabic again. The text "Ecole Nationale des Sciences Appliquées de Fès" and "Université Sidi Mohamed Ben Abdellah" is clearly visible. Below the header box, the text "Source Coding Project" is displayed in a large, bold, black font. The entire screenshot is set against a light gray background with decorative black wavy lines on the left and right sides.



المركز الوطني للأمن وإدارة الأزمات  
 +212 537 71 00 01 | +212 537 71 00 01 | +212 537 71 00 01  
 Ecole Nationale des Sciences Appliquées de Fès



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 Université Sidi Mohamed Ben Abdellah

# Source Coding Project

## Text Coding

Yes

No

## Image Coding

Yes

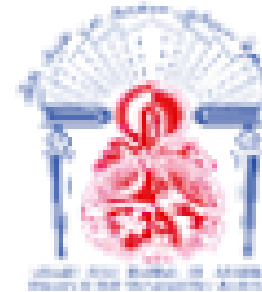
No

# TEXT CODING PAGE


 MATLAB App



المدرسة الوطنية للعلوم التطبيقية  
Ecole Nationale des Sciences Appliquées de Fès



جامعة سيدي محمد عبد الله  
Université Sidi Mohamed Ben Abdellah

 Go Back

## Text Coding

Insert text

 Encode

Huffman

Shanon Fano

Compression rate (%)

The best algorithm is :

Encoded phrase is :

# IMAGE CODING PAGE



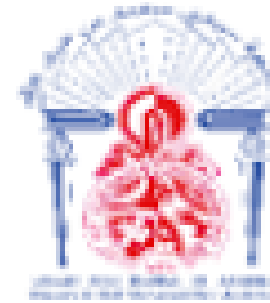
MATLAB App



المدرسة الوطنية للعلوم التطبيقية

ⵜⴰⵎⴰⵏⵜ ⵜⴰⵎⴰⵏⵜ ⵜⴰⵎⴰⵏⵜ ⵜⴰⵎⴰⵏⵜ

Ecole Nationale des Sciences Appliquées de Fès



جامعة سيدي محمد بن عبد الله

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Université Sidi Mohamed Ben Abdel

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## Image Coding

Insert Image...



Open...

Different Reading Algo's (Sequence Lengths)

Horizontal

Vertical

ZigZag

The longest sequence of 0's is done by



Execute

# **DEMONSTRATION VIDEO**