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# PROJECT 02: ENCODE TEXT AS IMAGE
# F11: MAIN EXECUTION FUNCTION
#
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f11_main_execute <- function(input_MSG, file_path) {
  # 01. Find N
  N <- f01_find_N(input_MSG, 10)

  # 02. Create word matrix
  mat_CWM <- f02_word_matrix(input_MSG, N)

  # 03. Replace reference
  df_ref_replace <- f03_replace_reference()

  # 04. Replace characters
  mat_RWM <- f04_replace_characters(mat_CWM, df_ref_replace)

  # 05. Shuffle reference
  df_ref_shuffle <- f05_shuffle_reference(mat_RWM)

  # 06. Shuffle characters
  mat_SWM <- f06_shuffle_characters(mat_RWM, df_ref_shuffle)

  # 07. ASCII reference
  df_ref_ascii <- f07_ascii_reference()

  # 08. Convert characters to RGB
  vec_RGB <- f08_rgb_values(mat_SWM, df_ref_ascii)

  # 09. Create plot
  f09_render_plot(mat_SWM, vec_RGB, file_path)

  # 10. Export
  f10_export_files(file_path, f1 = input_MSG, f2 = mat_CWM, f3 =
df_ref_replace, f4 = mat_RWM,
                    f5 = df_ref_shuffle, f6 = mat_SWM, f7 = df_ref_ascii, f8
= vec_RGB)
}

#
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file_path <- "C:\\Users\\NAVEEN\\Pictures\\TEXT_IMG_Messages\\
\\05_EXP_04_Jun_06_2021\\"
input_MSG <- "LIFEX Technologies India Private Limited. Naveen Prabhu, Co-
founder & CEO. Harish Gnanasekar, Co-founder & CTO. Arjun V Shenoy, Co-
founder & CPO."

# RUN THE MAIN FUNCTION
f11_main_execute(input_MSG, file_path)

```