

STEGANOGRAPHY PROGRAM

The program merges a text message into a bitmap file or recovers a text message already merged into a bitmap file created with this program.

1. Main Window

- a. The program opens with the window shown in Figure 1.



Figure 1

- b. To create a new image file with a message merged into it, press the “New Image” button (marked as 1. in figure 1). This will open the new image window. See paragraph 2 below.
 - c. To recover a message from an image created by this program, press the “Recover Message” button (marked as 2. in figure 1). This will open the recover message window. See paragraph 3 below.
 - d. To exit the program, press the “Exit” button, shown as 3. in Figure 1.
- ### 2. Create New Image Window
- a. The new image window displays the window shown in Figure 2.

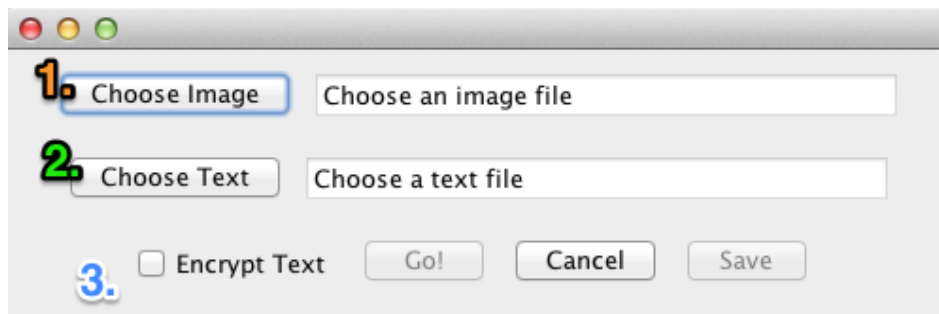


Figure 2

- b. Press the “Choose Image” button, marked as 1. in Figure 2, to open a dialog to select a bitmap file from the file system. Press the “Choose Text” button, marked as 2. in Figure 2, to open a dialog to select a text file from the file system. Encryption may be selected for the new file by checking the “Encrypt Text” check box, shown as 3. in Figure 2.

Upon selecting encryption, the program will present a dialog box to enter the pass phrase. See Figure 3. Enter a pass phrase that will encrypt the message and select the “OK” button. Choose the “Cancel” button at any time to cancel encryption.

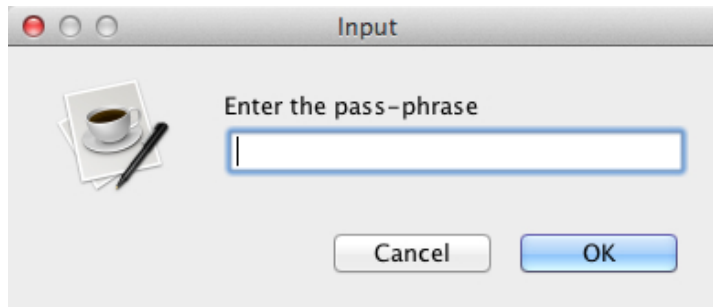


Figure 3

- c. Once both an image and a message have been selected, the “Go!” button will be enabled. Press the “Go!” button to merge the message into the image file, thus creating a new image. See figure 4.

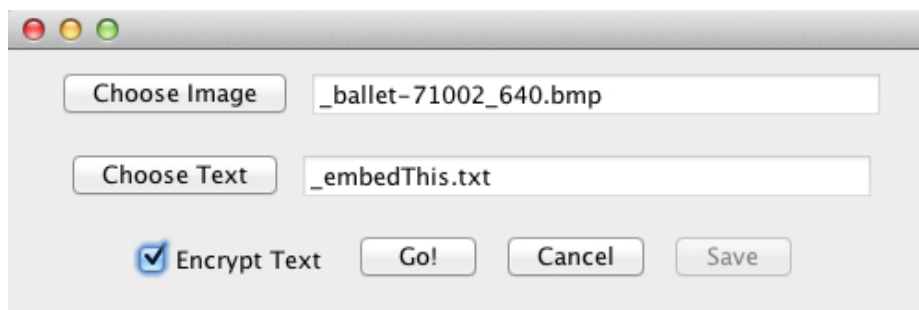


Figure 4

- d. Once the new image is created, save it to the local system by selecting the “Save” button, which is now enabled. See Figure 5. The create new image window will close upon saving.

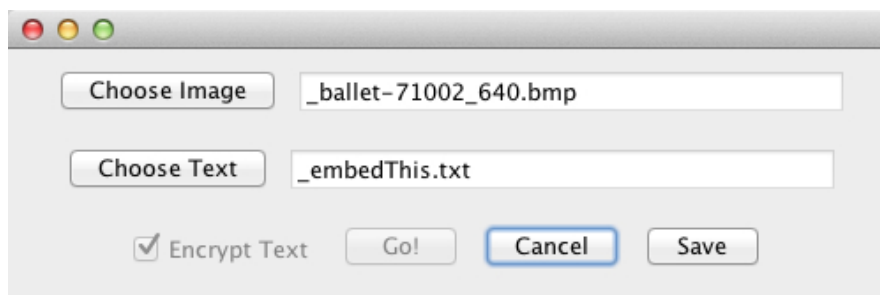


Figure 5

3. Recover Message Window

- a. The recover message window displays the window shown in Figure 5.

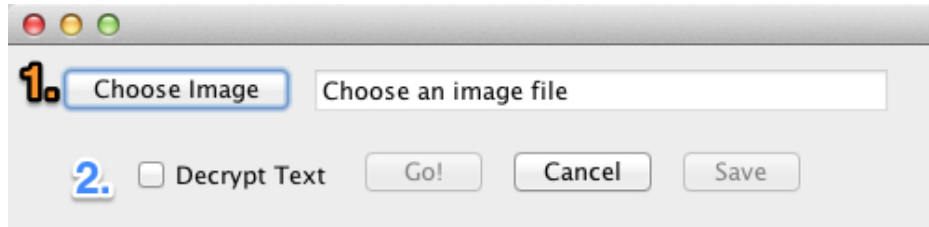


Figure 6

- b. To recover a message from an already created image. press the “Choose Image” button, marked as 1. in Figure 6. A dialog box opens to select the image file from the file system. If the message within the image is encrypted, select the “Decrypt Text” check box, marked as 2. in Figure 6, to enter the pass phrase associated with the message. See Figure 3.
- c. Once an image is selected, press the “Go!” button, now enabled, to recover the message from the image (see Figure 7). Once the message is recovered, the “Save” button is enabled. Press this button to save the recovered message to a text file on the file system (see Figure 8). The recover message window will close upon saving.

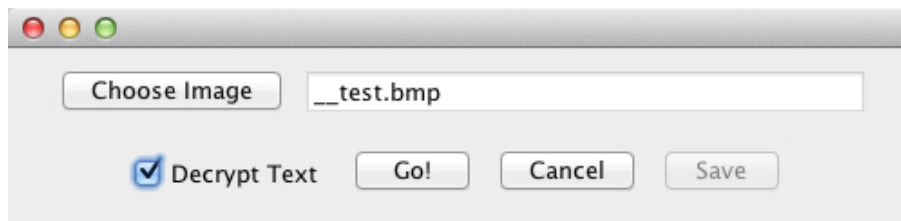


Figure 7

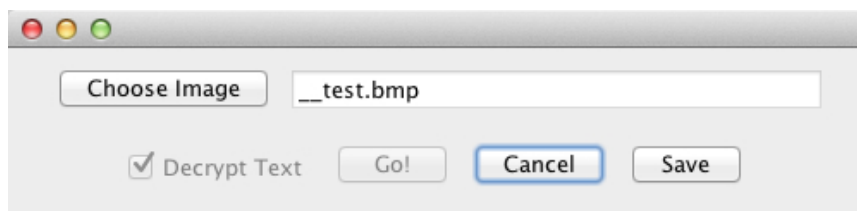


Figure 8