

Hidden In Plain Sight

GUI Testing Document

Table of Contents

Table of Contents	1
How to USE the GUI - Windows	2
Starting the program	2
Encrypting text	2
Decrypting an image	2
How to TEST the GUI - Windows	7
Test 1 (Testing for invalid length)	7
Test 2 (Testing for invalid character)	7
Test 3 (Testing .png file)	8
Test 4 (Testing .jpg file)	10
Test 5 (Testing for no customization)	12
Test 6 (Testing the saving file function and decrypting function)	13
How to USE the GUI - Linux	14
Starting the program	14
Encrypting text	14
Decrypting an image	14
How to USE the GUI - MacOSX	19

How to USE the GUI - Windows

1. Starting the program

- a. Start the program by double clicking on the “runme.bat” file.
- b. After a few moments, the Hidden in Plain Sight window will open.
- c. From here you may choose to encrypt text in the “Encrypt” tab or decrypt an image in the “Decrypt” tab.

2. Encrypting text

- a. To encrypt text, first select the “Encrypt” tab if you have not already done so.
- b. Enter your desired text into the text field.
- c. You may choose to encrypt to a specific image by clicking the “Choose Image” button and selecting your image. Otherwise, a default image is used. (The default is a red 10x12 .png image.)
- d. Click the “Encrypt” button to encrypt the text to the image. Your image will be previewed in the lower box.
(Figure 1 shows the resulting previewed image using the default image.)
- e. To save the encrypted image, click “Save Image”.
NOTE: You must save your image using either the .png or .jpg extension.
(Figure 2 shows the file explorer after clicking “Save Image”.)

3. Decrypting an image

- a. To decrypt an image, first select the “Decrypt” tab if you have not already done so.
- b. Browse to the image you wish to decrypt by clicking the “Browse” button.
NOTE: The selected image must have the .png or .jpg extension.
(Figure 3 shows the file explorer after clicking “Browse”.)
- c. Click “Decrypt” to decrypt the image. The decrypted text will display in the box.
(Figure 4 shows the resulting decrypted text after clicking “Decrypt”)



Figure 1. *Encrypting using the default image*

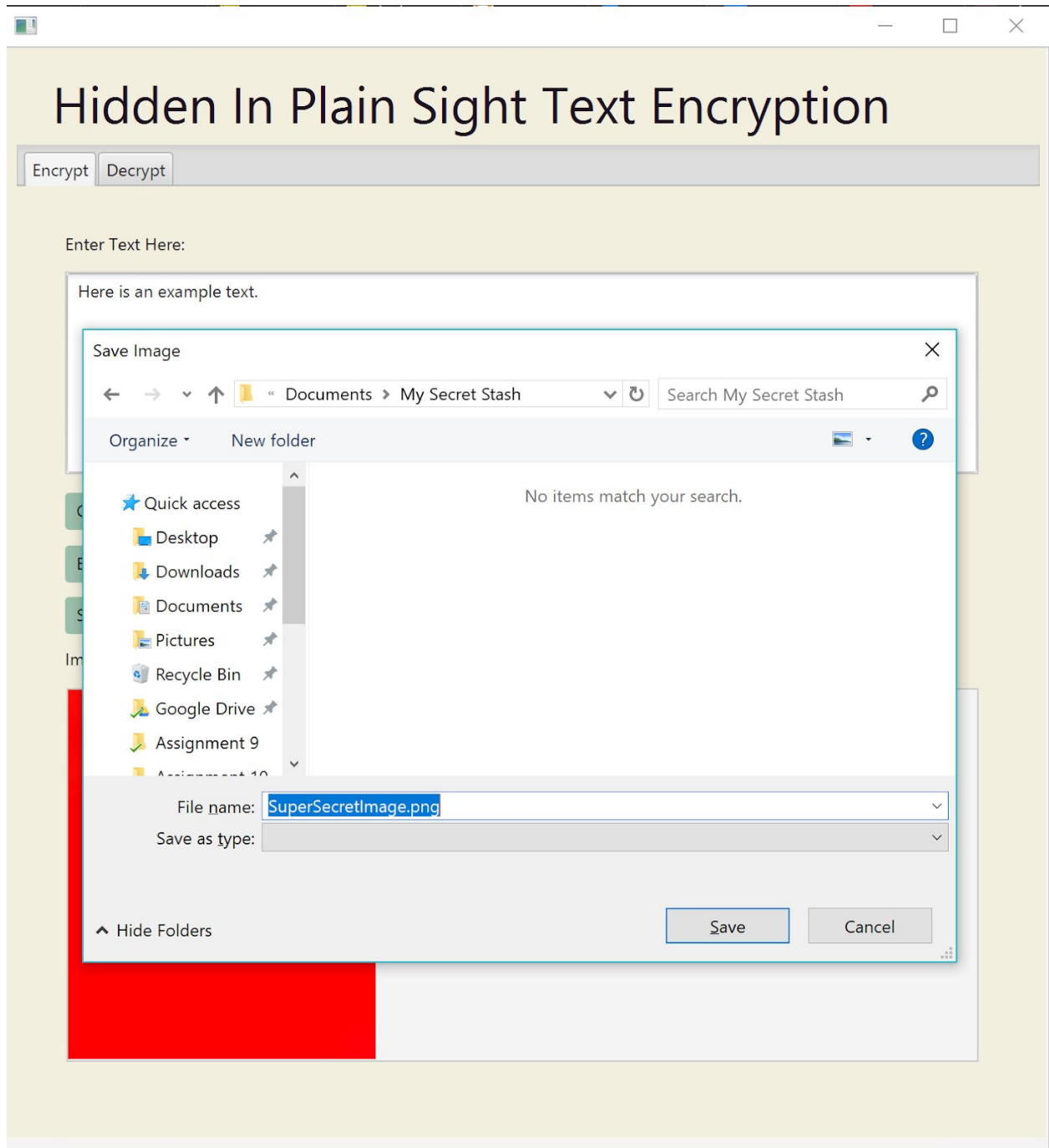


Figure 2. Saving the encrypted image

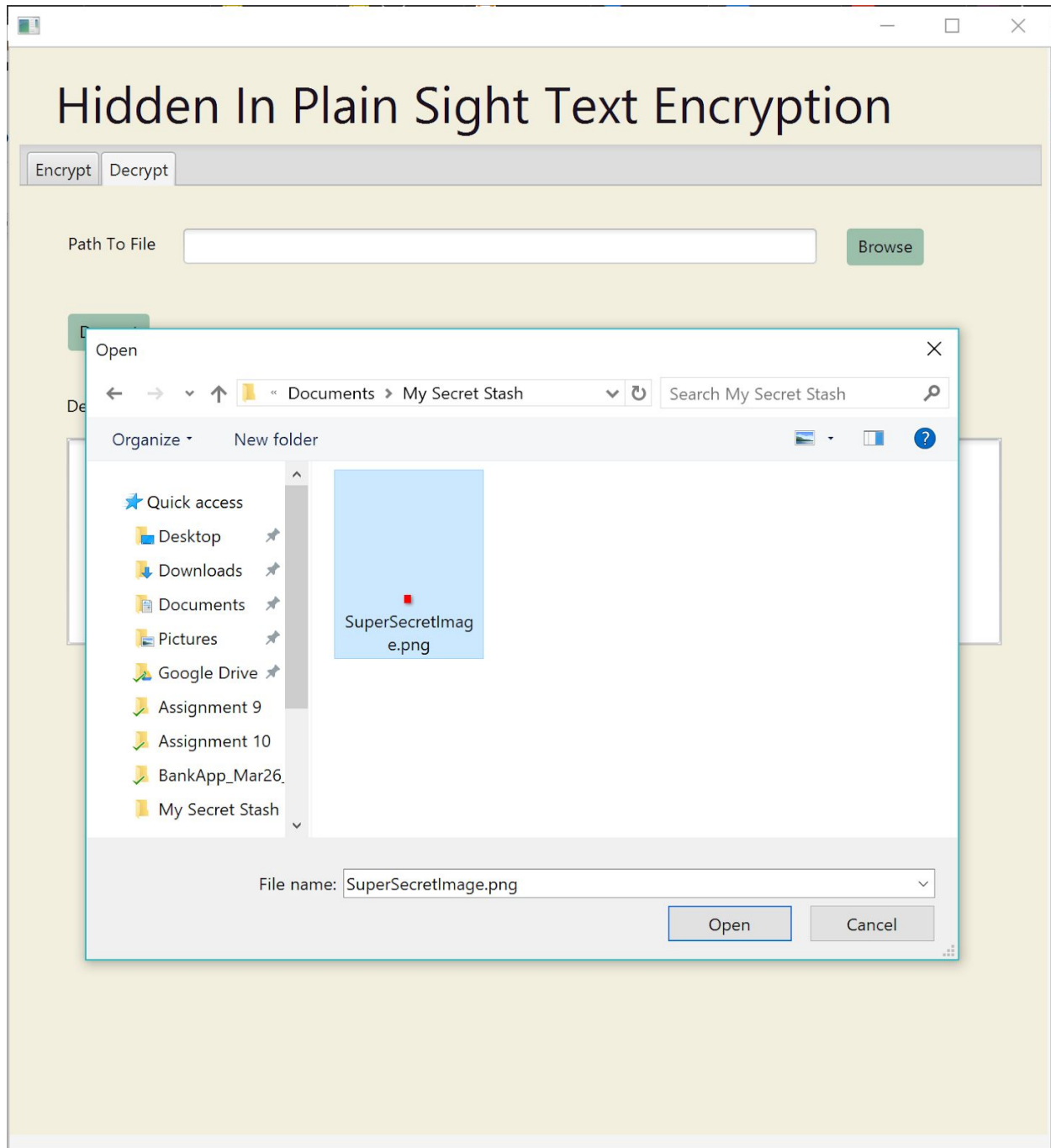


Figure 3. *Browsing and selecting an image to decrypt*

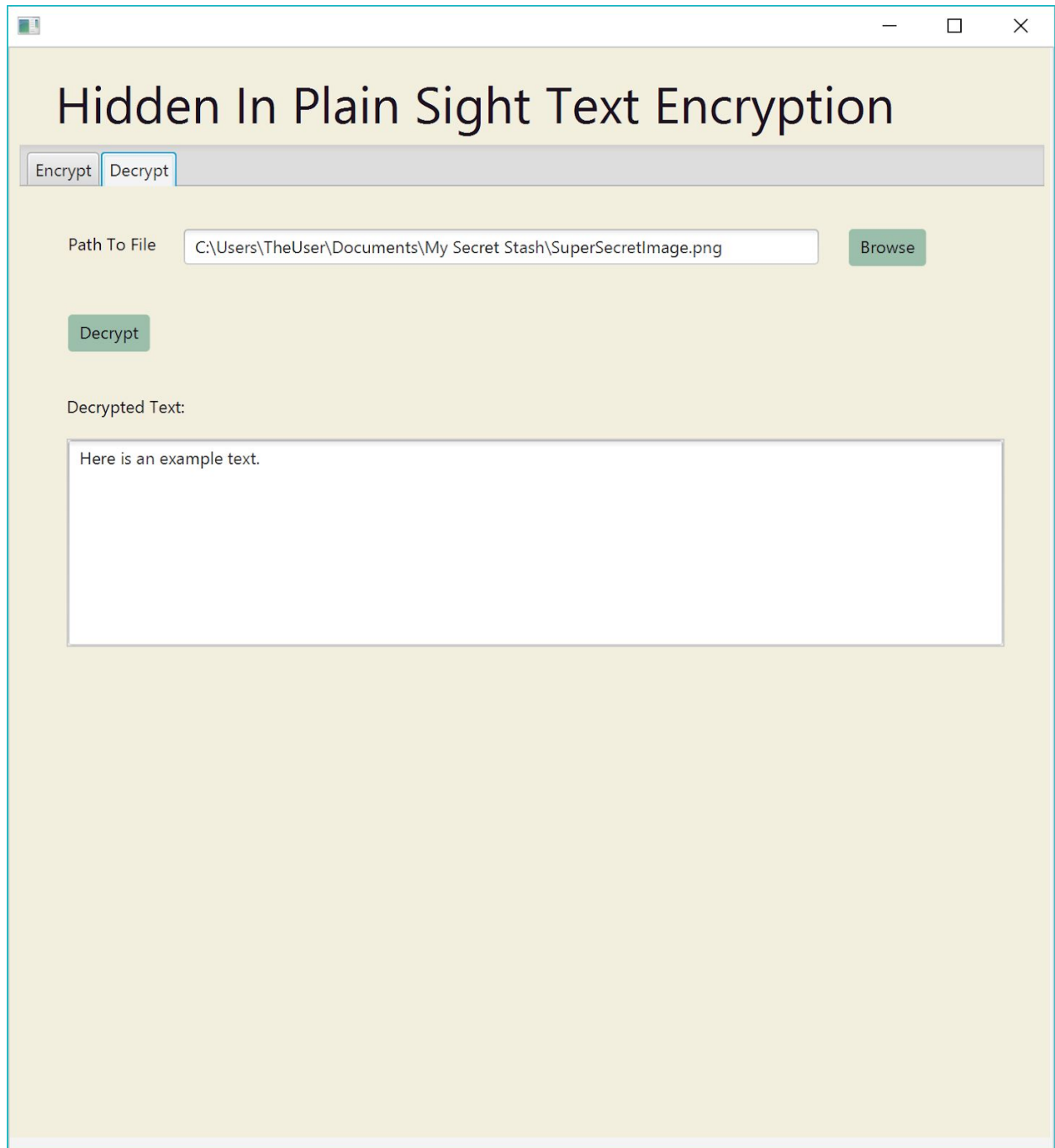


Figure 4. Decrypting a chosen image

How to TEST the GUI - Windows

Test 1 (Testing for invalid length)

- Open the Gui (instructions above)
- In the text box at the top under the text "Enter Text Here:" paste:
Test
TestTestTestTestTestTestTestTestTestTestTest
- Click the encrypt button
- A text box saying; "Message Length and Image are Not Compatible :(" should pop up on the screen (as seen below).

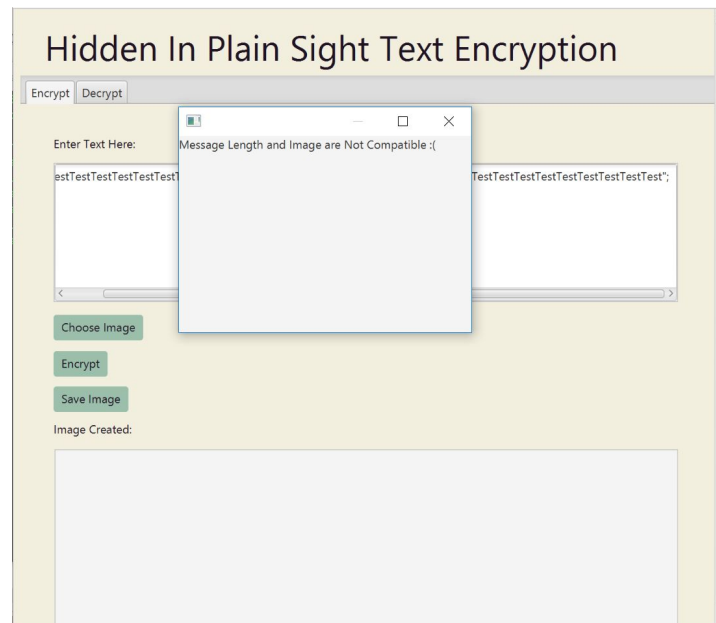


Figure 5. Error “Message Length and Image are Not Compatible : (“

Test 2 (Testing for invalid character)

1. Open the Gui (instructions above)
2. In the text box at the top under the text “Enter Text Here:” paste: Ä&ê
3. Click the encrypt button
5. A text box saying; “Please input basic Ascii text.” should pop up on the screen (as seen below).

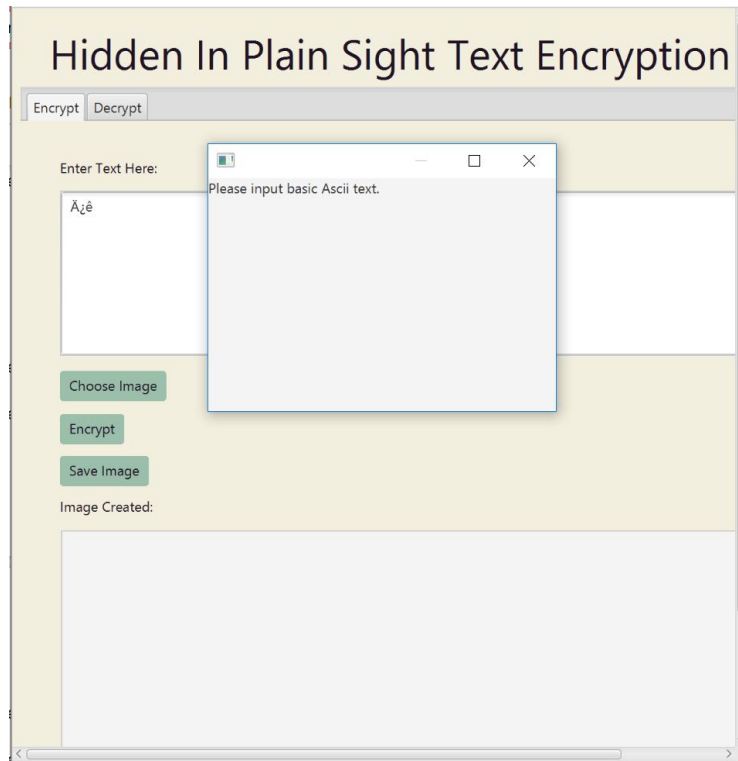


Figure 6. Error “Please input basic ascii text.”

Test 3 (Testing .png file)

1. Open the Gui (instructions above)
2. In the text box at the top under the text “Enter Text Here:” type: test
3. Click the Choose Image button and navigate to the Images folder and choose the testing image (this image is saved as a png).

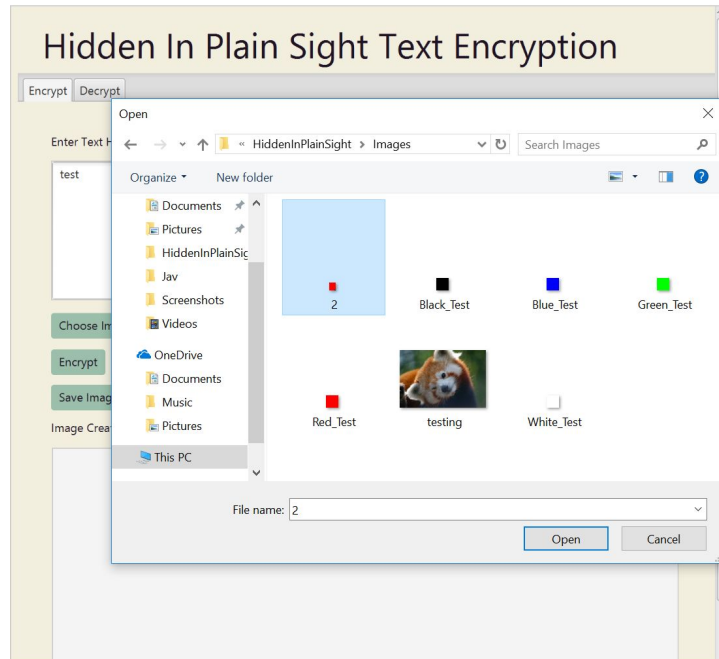


Figure 7. Choosing 2.png image

4. Next click the encrypt button (the Gui should now look like below image).



Figure 8. Encrypting 2.png

5. Next click the Decrypt tab at the top of the screen.
6. Once on the Decrypt page click the Decrypt button (should output “test” as seen below).



Figure 9. *"Test" outputted in decrypt tab*

Test 4 (Testing .jpg file)

1. Open the Gui (instructions above)
2. In the text box at the top under the text “Enter Text Here:” type: test
3. Click the Choose Image button and navigate to the Images folder and choose the testing image (this image is saved as a jpg).

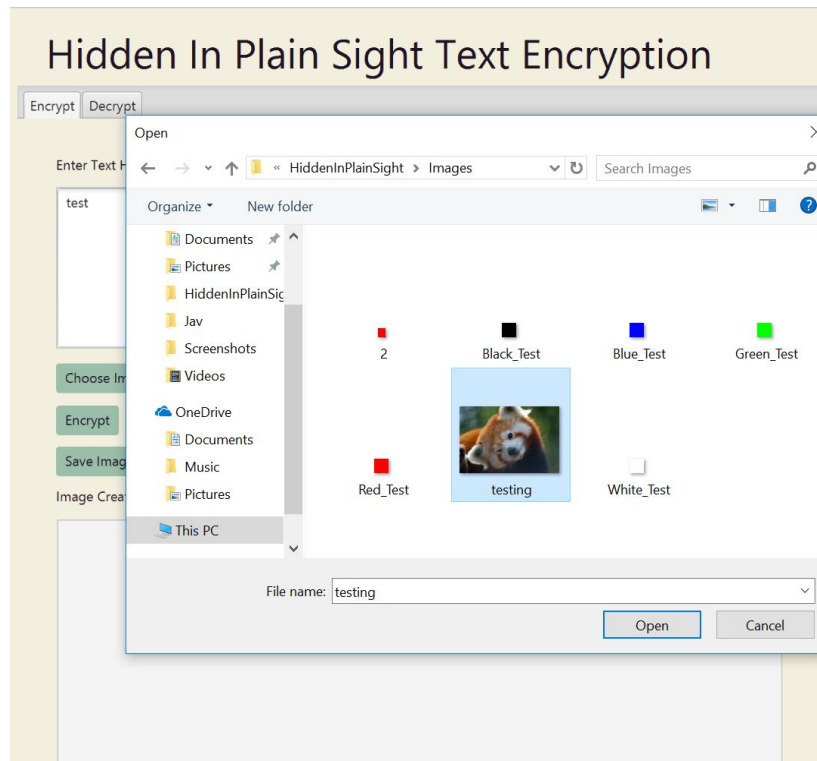


Figure 10. Choosing the testing.jpg image

4. Next click the encrypt button (the Gui should now look like below image).

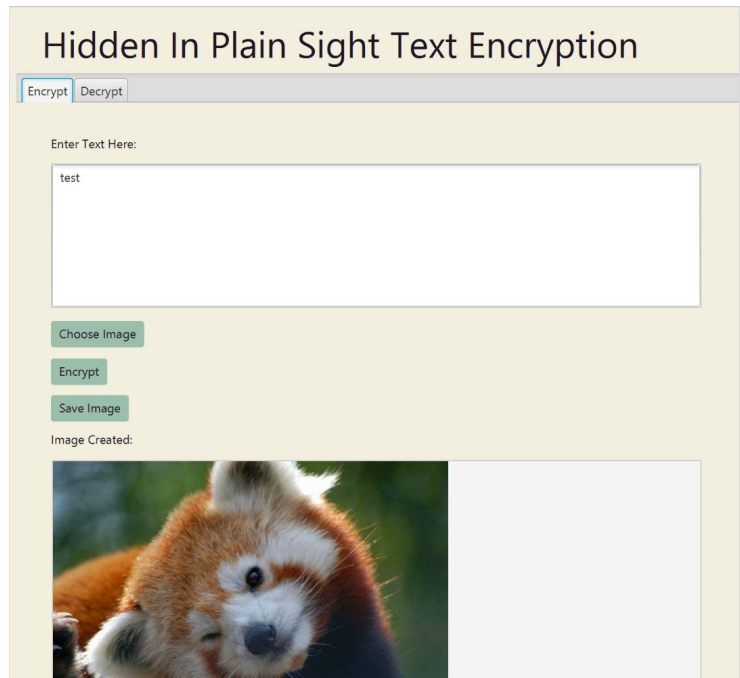


Figure 11. *Encrypting testing.jpg*

5. Next click the Decrypt tab at the top of the screen.
6. Once on the Decrypt page click the Decrypt button (should output "test" as seen below).

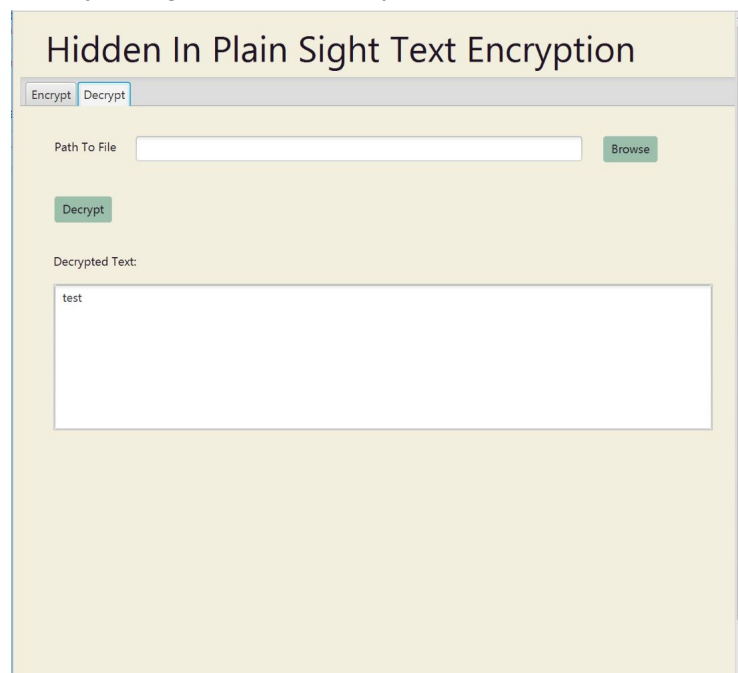


Figure 12. *"Test" outputted in decrypt tab*

Test 5 (Testing for no customization)

1. Open the Gui (instructions above)
2. In the text box at the top under the text “Enter Text Here:” type: test
3. Next click Encrypt without choosing an image

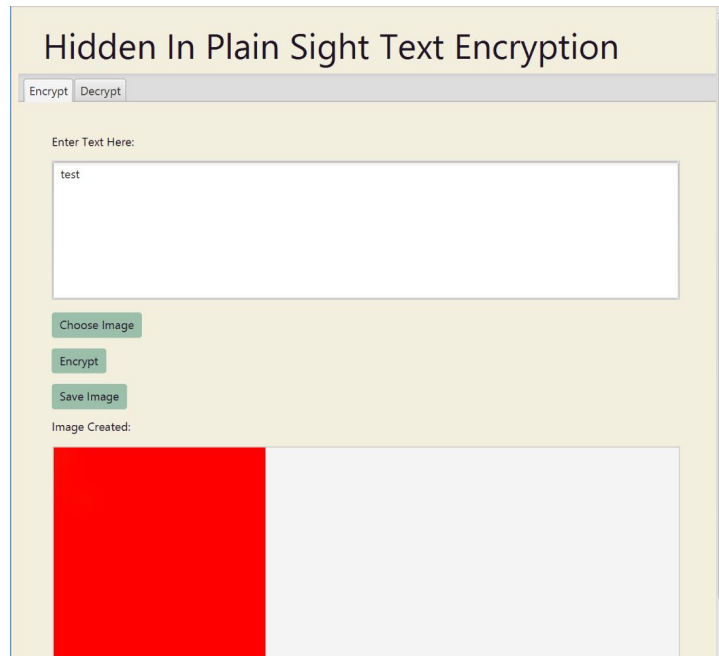


Figure 13. *Gui after encrypting without image selection*

5. Next click the Decrypt tab at the top of the screen.
6. Once on the Decrypt page click the Decrypt button (should output “test” as seen below).



Figure 14. “Test” outputted in decrypt tab

Test 6 (Testing the saving file function and decrypting function)

1. Open the Gui (instructions above)
2. In the text box at the top under the text “Enter Text Here:” type: test
3. Next click Encrypt and click “Save Image.” In the file explorer, save the image in your desired location and giving it a name.

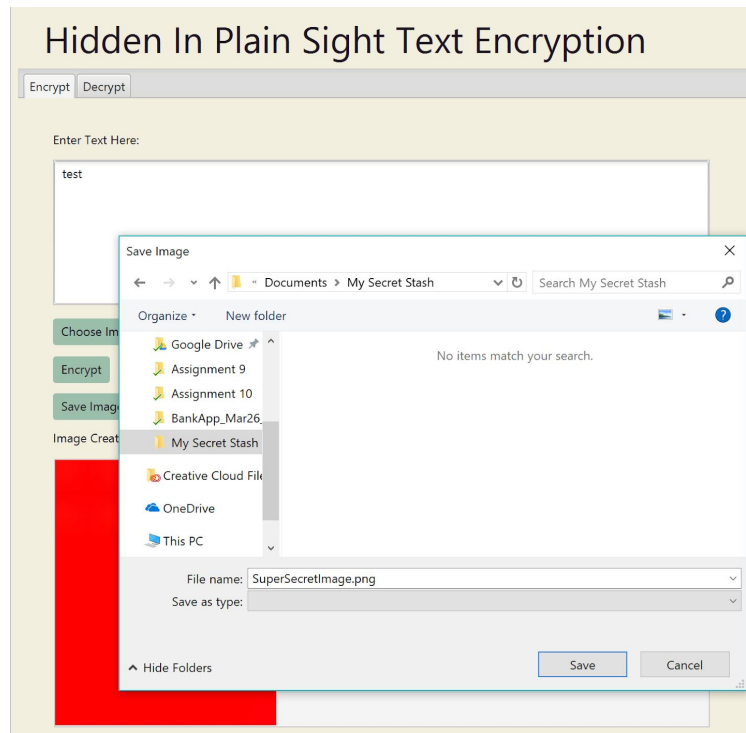


Figure 15. Saving the encrypted image

4. Click on the “Decrypt” tab.
5. Click the “Browse” button to open the file explorer and navigate to the image you just saved. Select the image and click “Open”.

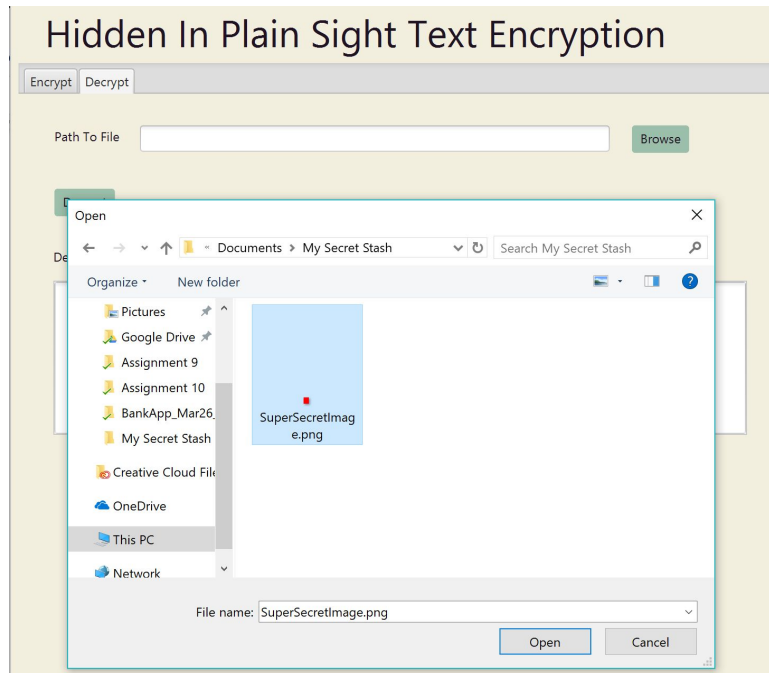


Figure 16. Opening the saved image

6. Click the “Decrypt” button. This should output “test” as seen below.

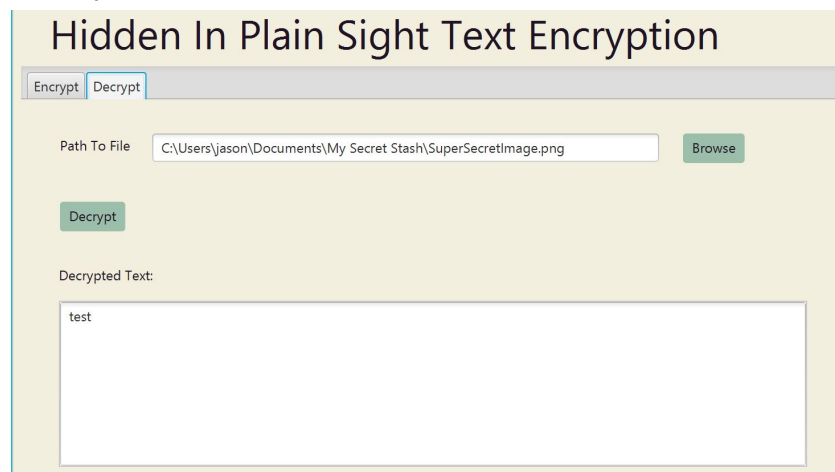


Figure 17. “Test” outputted in decrypt tab

How to USE the GUI - Linux

1. Starting the program

- d. Start the program by double clicking on the “runme.bat” file.
- e. After a few moments, the Hidden in Plain Sight window will open.
- f. From here you may choose to encrypt text in the “Encrypt” tab or decrypt an image in the “Decrypt” tab.

4. Encrypting text

- a. To encrypt text, first select the “Encrypt” tab if you have not already done so.
- b. Enter your desired text into the text field.
- c. You may choose to encrypt to a specific image by clicking the “Choose Image” button and selecting your image. Otherwise, a default image is used. (The default is a red 10x12 .png image.)
- d. Click the “Encrypt” button to encrypt the text to the image. Your image will be previewed in the lower box. (Figure 1 shows the resulting previewed image using the default image.)
- e. If you wish to save the encrypted image, click “Save Image”.

NOTE: You must save your image using either the .png or .jpg extension.

5. Decrypting an image

- a. To decrypt an image, first select the “Decrypt” tab if you have not already done so.
- b. Browse to the image you wish to decrypt by clicking the “Browse” button.
NOTE: The selected image must have the .png or .jpg extension.
- c. Click “Decrypt” to decrypt the image. The decrypted text will display in the box.

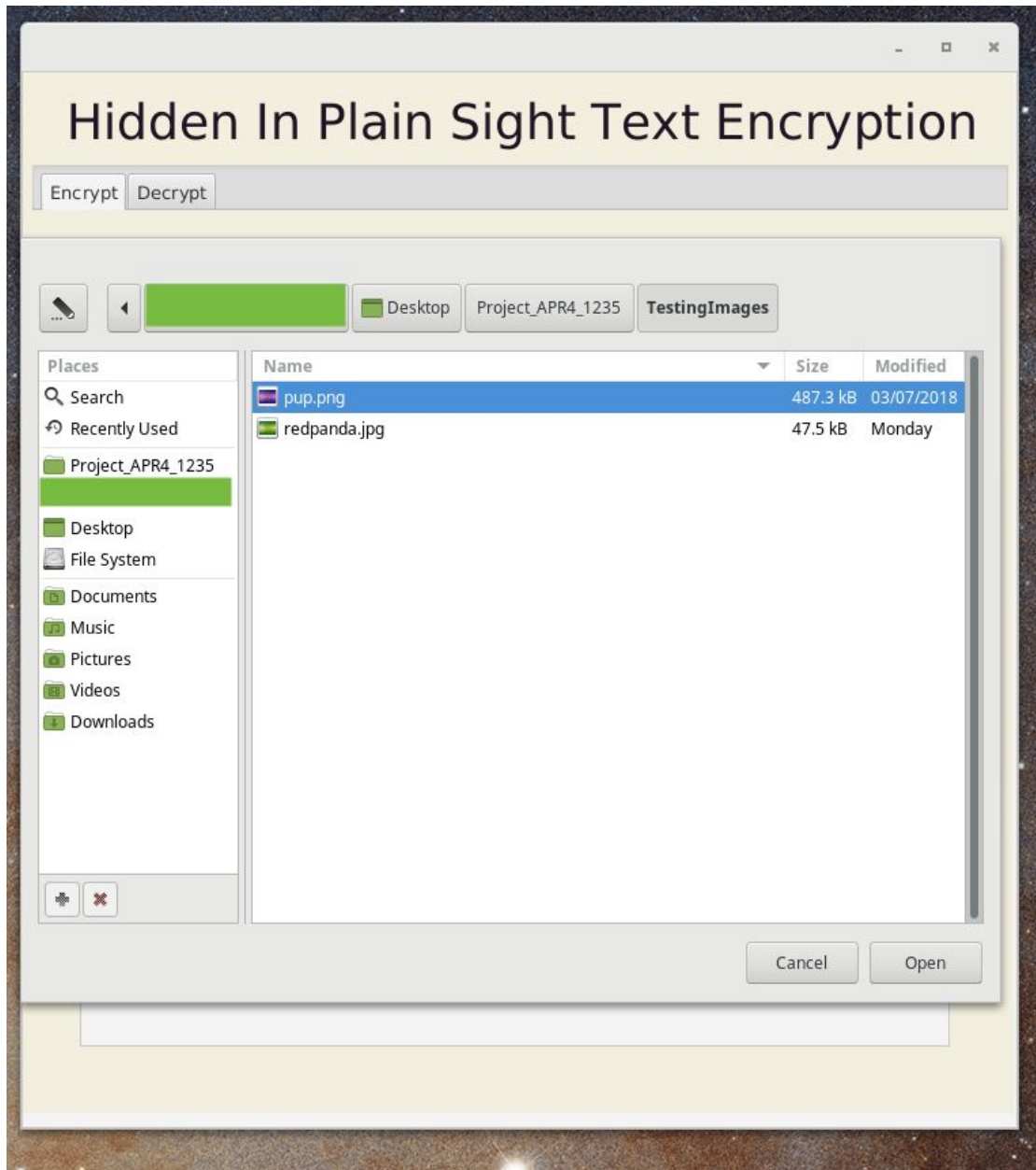


Figure 18. Choose Image Window

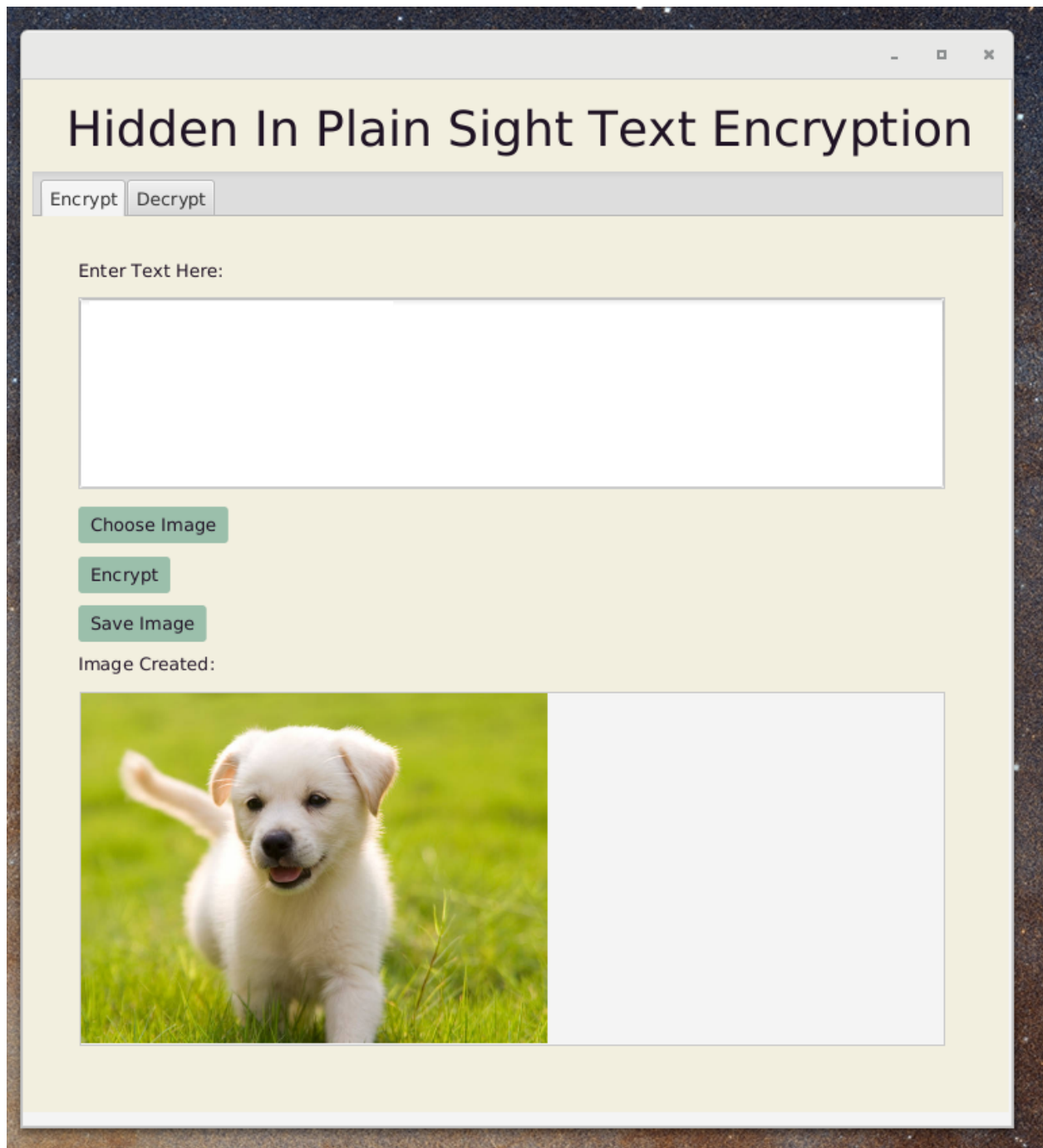


Figure 19. *Encrypting using the a pre-chosen image from figure 18*



Figure 20. Saving the encrypted image

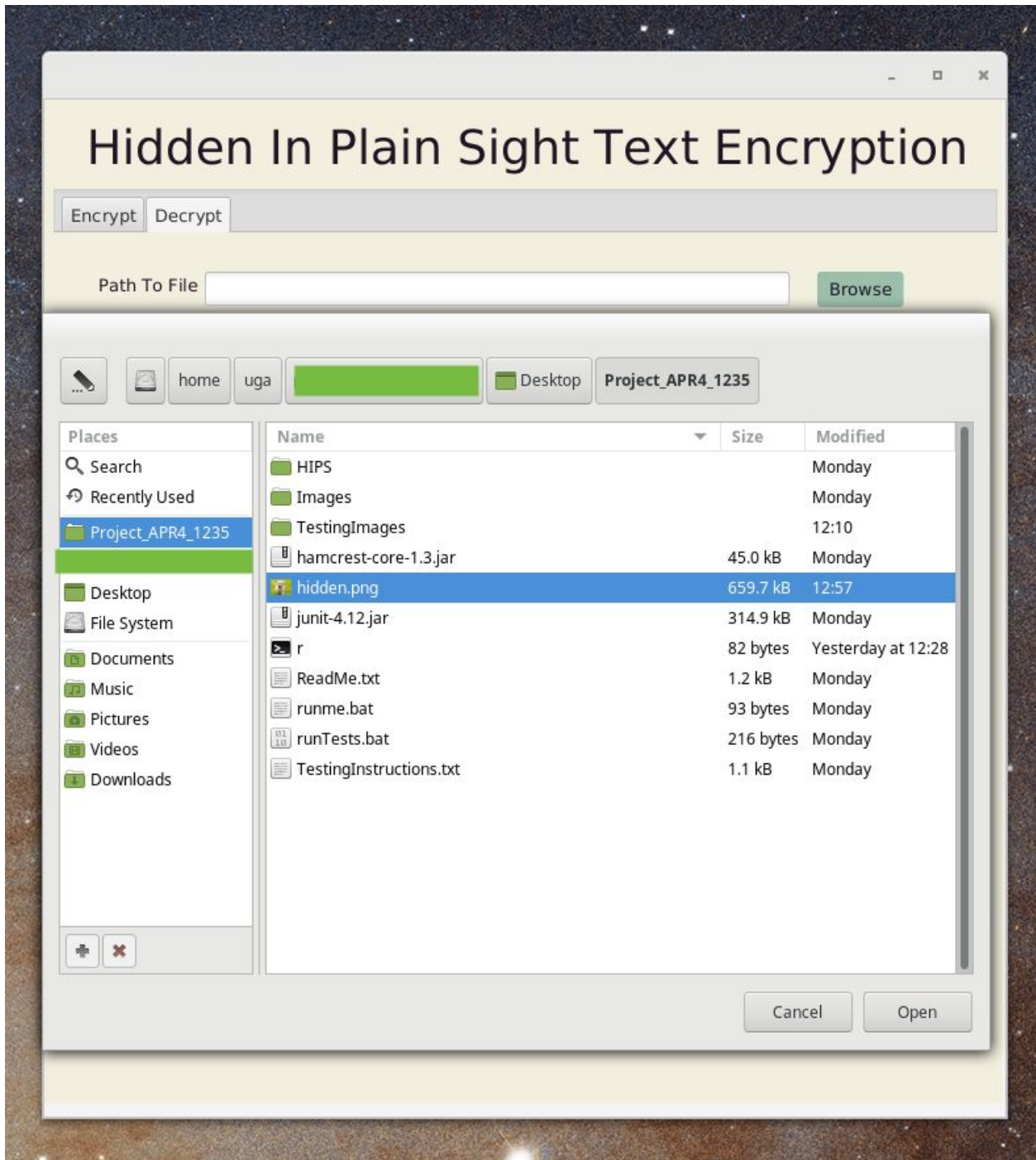


Figure 21. Browsing and selecting an image to decrypt

Hidden In Plain Sight Text Encryption

Encrypt

Decrypt

Path To File

/home/uga/kaitlin.dechastelain/Desktop/Project_APR4_1235/hidde

Browse

Decrypt

Decrypted Text:

12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

Figure 22. Decrypting a chosen image

How to USE the GUI - MacOSX

6. Starting the program
 - a. Start the program by opening your terminal and navigating to the folder HiddenInPlainSight
 - b. Enter the following: `./r`
 - c. After a few moments, the Hidden in Plain Sight window will open.
 - d. From here you may choose to encrypt text in the “Encrypt” tab or decrypt an image in the “Decrypt” tab.
7. Encrypting text
 - a. To encrypt text, first select the “Encrypt” tab if you have not already done so.
 - b. Enter your desired text into the text field.
 - c. You may choose to encrypt to a specific image by clicking the “Choose Image” button and selecting your image. Otherwise, a default image is used. (The default is a red 10x12 .png image.)
 - d. Click the “Encrypt” button to encrypt the text to the image. Your image will be previewed in the lower box. (Figure 1 shows the resulting previewed image using the default image.)
 - e. If you wish to save the encrypted image, click “Save Image”.
NOTE: You must save your image using either the .png or .jpg extension.
8. Decrypting an image
 - a. To decrypt an image, first select the “Encrypt” tab if you have not already done so.
 - b. Browse to the image you wish to decrypt by clicking the “Browse” button.
NOTE: The selected image must have the .png or .jpg extension.
 - c. Click “Decrypt” to decrypt the image. The decrypted text will display in the box.

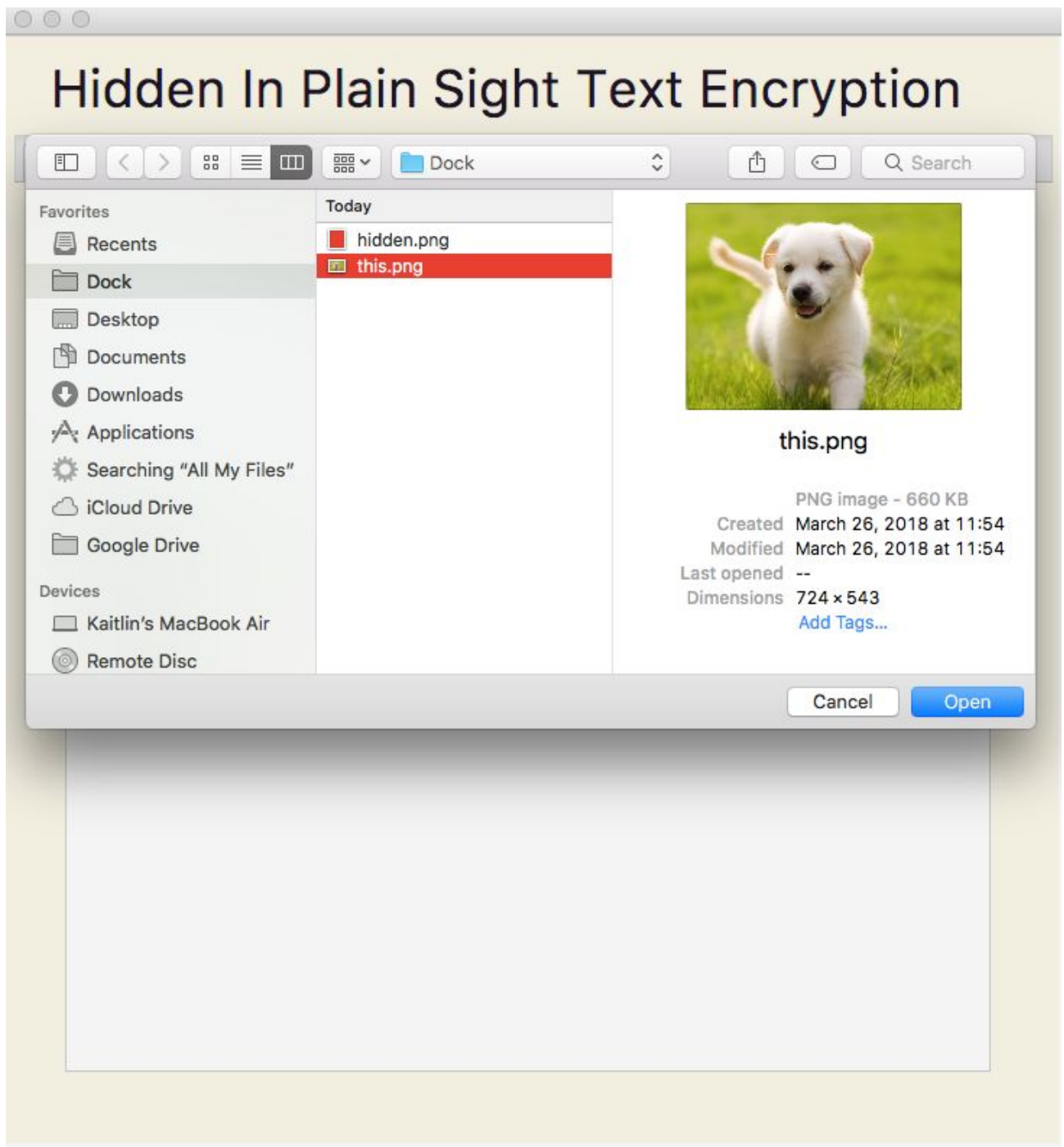


Figure 23. Choose Image Window



Figure 24. *Encrypting using the a pre-chosen image from figure 23*

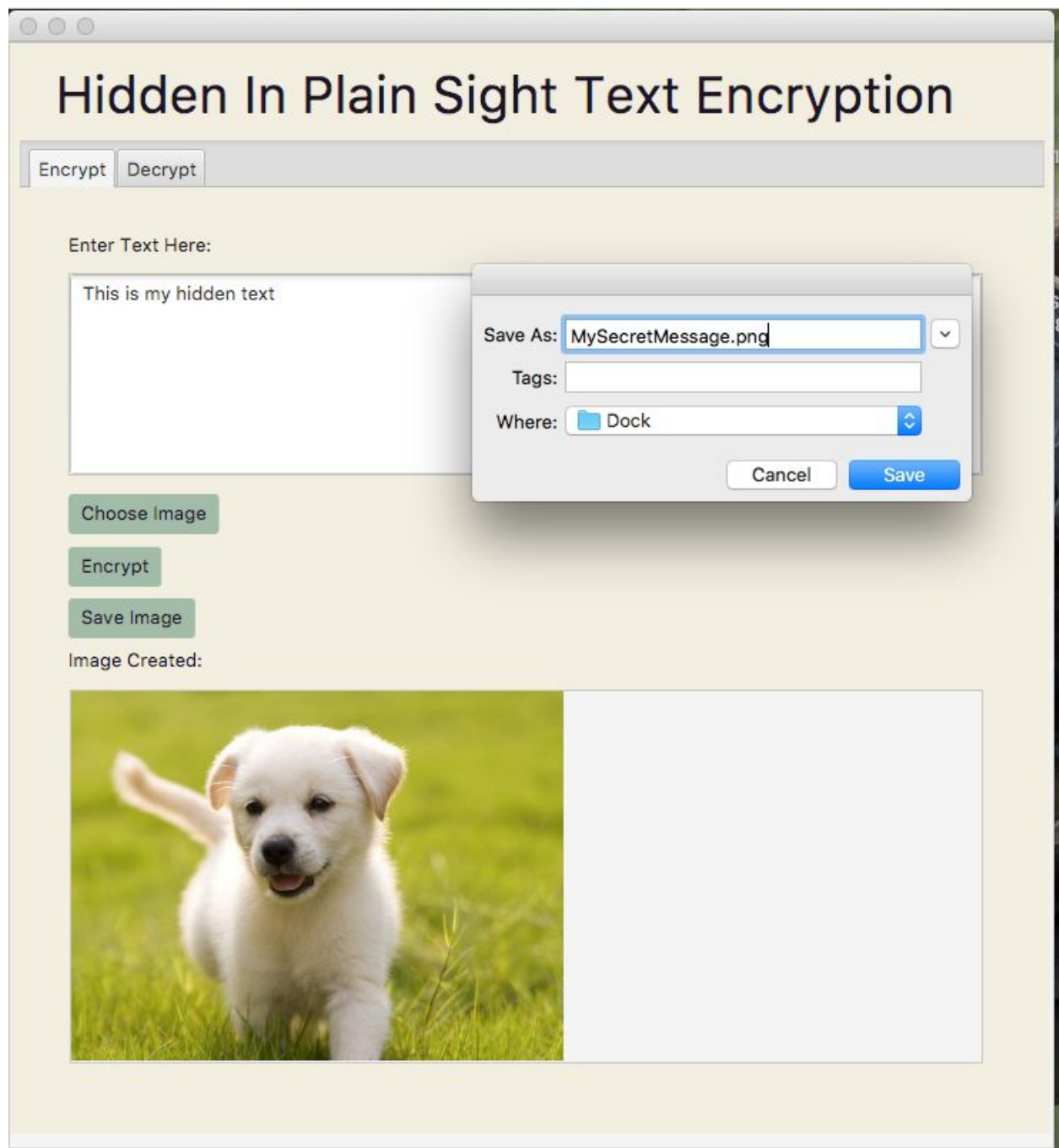


Figure 25. Saving the encrypted image



Figure 26. Browsing and selecting an image to decrypt

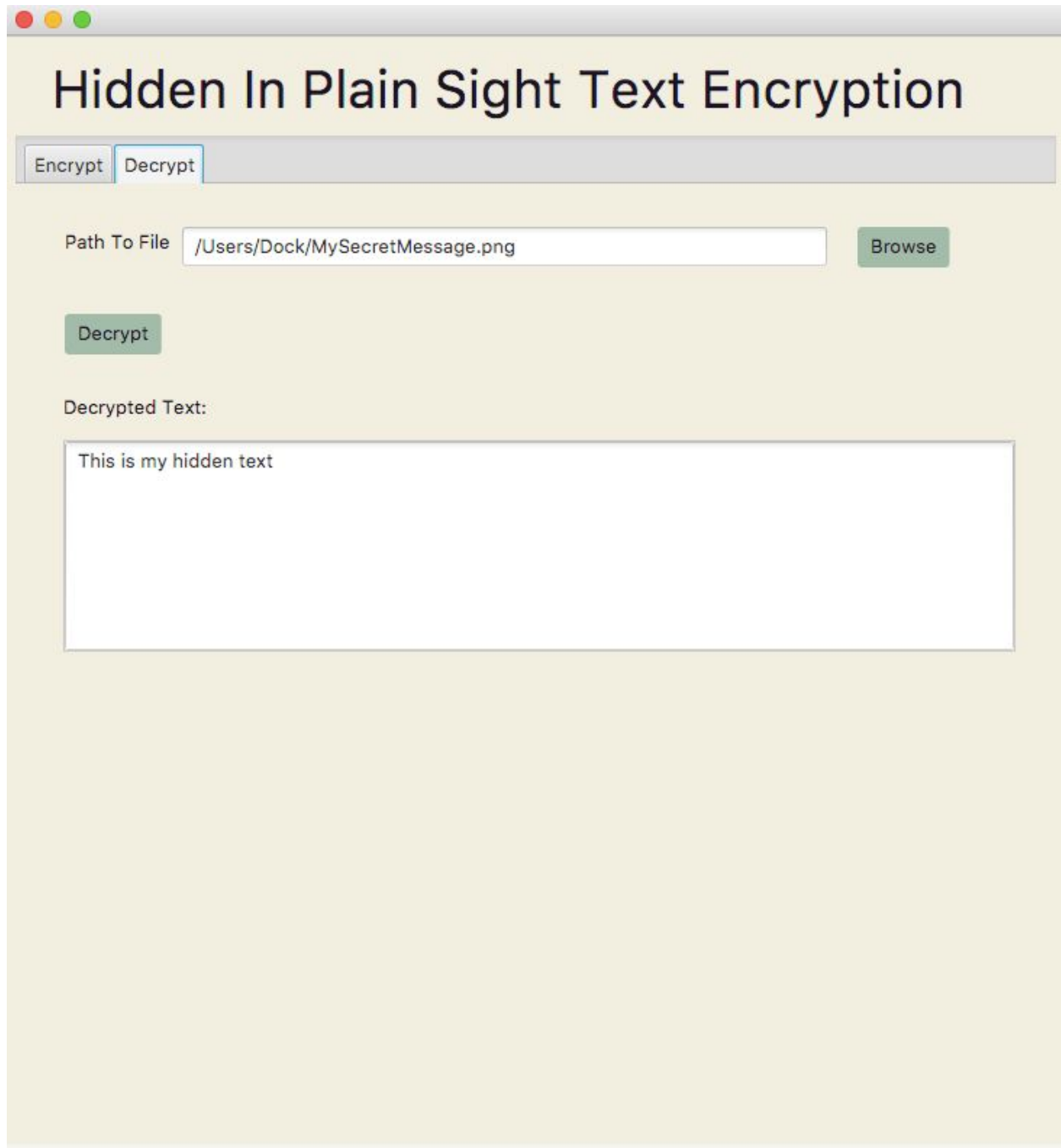


Figure 27. *Decrypting a chosen image*