COMP 8505 ASSIGNMENT TWO TESTING DOC

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Usage

Before running the program, ensure you are the root user and have the zip folder stored somewhere on your computer. Navigate to the zip/tar file and extract it to a location of your choice. Go to the extracted files location.

Ensure each file can be ran by performing a chmod on the files for reading the file. Ensure that the pictures that you want to use are in the "pictures" folder. The new images will appear in the "new" folder.

To run the program, type in the following command with the following switches.

#python3 util.py -m [mode] -c [cover image] -s [secret image] -n [new file name]

In the above case, use encode for the mode to encode the image.

Ensure the extension is typed for each file image and name.

Mode: Can choose between 'encode' or 'decode', which will either encode the image or decode the image

Cover image: The name of the file that you want to have your secret data hidden inside.

Secret image: The name of the file or image that you want to hide your data.

New file name: The name of the file to write to for the new cover image that contains the secret data

After running and encoding the image, the image should show up in the pictures/new folder. After inspecting the image, you can decode the image with the following arguments:

#python3 util.py -m decode -c [cover image] -n [new file name]

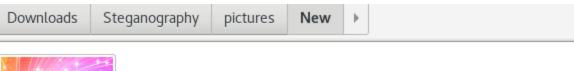
Testing

Test #	Description	Expected Result	Result (Pass/Fail)
1	Navigate to source folder. Execute program by typing in util.py	User can execute util.py	Pass
2	Navigate to source folder. Execute program in encode mode with cover and secret image incorrect	User should be notified that image is not there	Pass

3	Execute program in encode mode with bmp image as cover and secret, with out image as bmp for next 2 steps as well	Out image is displayed as bmp format	Pass
4	Execute program in encode mode with png image as cover and secret	Out image is displayed as bmp format	Pass
5	Execute program in encode mode with jpg image as cover and secret	Out image is displayed with bmp extension	Pass
6	Execute encode steps 3, 4, and 5, with the out image as bmp	Out img is displayed as bmp format	Pass
7	Execute encode steps 3, 4, and 5, with the out image as png	Out image is displayed in png format	Pass
8	Decode the image by putting new secret image as png from step 7	User can see decoded image in the new folder	Pass
9	Decode the image by putting the new secret image as bmp from step 6	User can see decoded image in the new folder	Pass

Screenshots

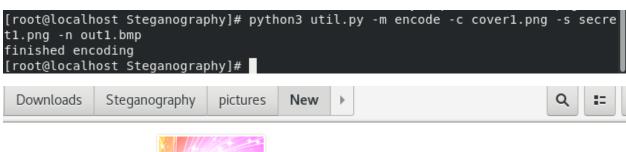
```
[root@localhost Steganography]# python3 util.py -m encode -c cover.jpg -s secret
.jpg -n testing.bmp
finished encoding
[root@localhost Steganography]#
```





testing.bmp

FileNotFoundError: [Errno 2] No such file or directory: 'pictures/coverNone.jpg'



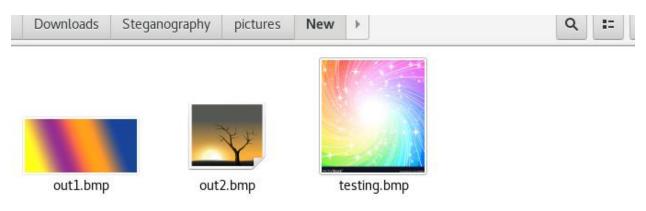




out1.bmp

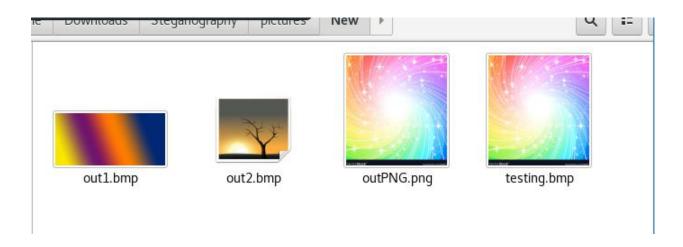
```
^C[root@localhost Steganography]# python3 util.py -m encode -c cover.jpg -s secr
.jpg -n out2.bmp
finished encoding
[root@localhost Steganography]#
```

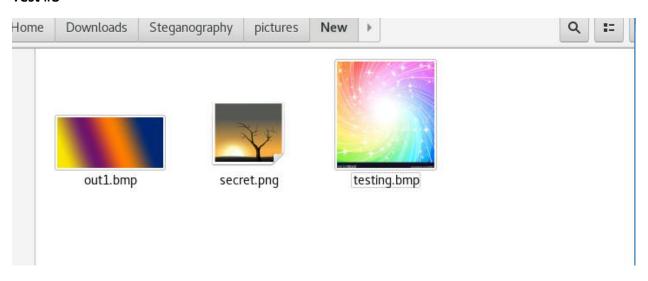
Test #6

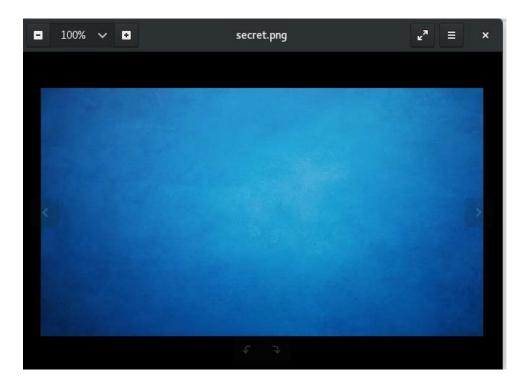


Test #7

[root@localhost Steganography]# python3 util.py -m encode -c cover.jpg -s secret .jpg -n outPNG.png finished encoding [root@localhost Steganography]#







```
[root@localhost Steganography]# python3 util.py -m decode -c outPNG.png -n UnSec
ret.jpg
Starting to decode
Writing to file...
Finished decoding
[root@localhost Steganography]#
```

