

Assignment 2 User Guide

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Quick Start

This program is used via the command line and it has two modes: Hide and Reveal.

Hide needs a carrier file name, a payload file name and a password.

Reveal needs a carrier file name, a output file name and a password.

Example:



snow_big.jpg => 2048x1356 jpeg file



boy.bmp => 768 x 512 bmp file

Command:

```
python3 lsbit.py hide img/snow_big.jpg img/boy.bmp password
```

Output:

```
Input image size: 2048x1356 pixels.  
Usable payload size: 1017.00 KB.  
Payload size: 385.053 KB  
Payload size after encryption: 513.442 KB  
img/boy.bmp hidden
```



Snow_big_encrypted.png

Command:

```
python3 lsbit.py reveal img/snow_big.jpg_encrypted.png boy.bmp password
```

Output:

```
Image size: 2048x1356 pixels.  
Wrote the data to: boy.bmp.
```




boy.bmp in root directory of project

Calculating the md5sum for the original and extracted versions of boy.bmp.

Command:

```
md5sum boy.bmp
```

```
md5sum img/boy.bmp
```

Output:

```
▲ Documents/c8505/a2_py md5sum boy.bmp&& md5sum img/boy.bmp
ff765960f892917b0882e349df74696c  boy.bmp
ff765960f892917b0882e349df74696c  img/boy.bmp
```