

DEMO

#Create a file

```
$ echo "My name is Chris. This is my secret message.. " >> plaintext.txt
```

#Change Permissions on this file

```
$ chmod 600 plaintext.txt
```

Symmetric encryption with binary output

```
$ gpg --symmetric plaintext.txt  
$ mv plaintext.txt.gpg ciphertext.txt.gpg  
$ cat ciphertext.txt.gpg
```

Symmetric encryption with ascii output

```
$ gpg --symmetric -a plaintext.txt  
$ mv plaintext.txt.asc ciphertext.txt.asc  
$ cat ciphertext.txt.asc
```

Setup some prearranged listener

```
nc -l -p 31337 -q 1 > ciphertext.txt.asc < /dev/null
```

When the file is received, view it

```
$ cat ciphertext.txt.asc
```

our ASCII armored, encrypted file to some prearranged listener

```
$ cat ciphertext.txt.asc | netcat 192.168.86.220 31337
```

Decrypt the asymmetric message

```
$ gpg --decrypt ciphertext.txt.asc
```

Import asymmetric public key

```
$ gpg --import csmith.pub.key
```

List the imported keys in local keyring

```
$ gpg --list-keys
```

Create a public/private key pair

```
$ gpg --gen-key  
$ gpg --list-keys
```

Export the public key in ASCII format (**Share this key**)

```
$ gpg --export -a > public.key
```

Sign the plaintext file with your private key

```
$ gpg -a --output plaintext.txt.asc.sig --sign plaintext.txt
```

Encrypt the signed file to the recipient's key

```
$gpg -e -a -u "You" -r "Christopher" plaintext.txt.asc.sig
```

Install stego tools

```
$ sudo apt-get install steghide  
$ man steghide  
$ steghide
```

Download an image file (**get your own file!!**)

```
$ wget https://i.imgur.com/Fkljv4i.jpeg && cp Fkljv4i.jpeg image.jpg
```

Embed a plaintext message in an image file

```
$ steghide embed -cf image.jpg -ef plaintext.txt -sf steg_image.jpg
```

check integrity

```
$ md5sum image.jpg
$ md5sum Fkljv4i.jpeg
$ md5sum steg_image.jpg
```

Extract your secrets

```
$ steghide extract -sf steg_image.jpg
```

Garbage

```
$ sudo adduser tmpuser
$ sudo adduser tmpuser sudo
$ su tmpuser
$ sudo delsuer tmpuser
```

root prompt using sudo : aka interactive

```
$ sudo -i
```