

Forum:[Hack Forums](#)

Thread: [QCrypter 1.0 - Message Encryption using Images](#)

TheBarret - April 27, 2014, 10:00 am

Well here it is my latest work the QCrypter.

It is open source you may tinker, you may use, as long you will credit me for my work.

Screenshots:

Features:

- Custom colors for pixel identification
- Aes encryption

The library works as follows:

Declare the engine

Code `qc = New QCrypt.Engine`

Assign the key and generate the image with the message as parameter

Code `qc.Key = MyKey.Text`

`qc.GenerateImage(Msg)`

To retrieve the image:

Code `Picturebox1.BackgroundImage = qc.QImage`

To resolve an image (and using the correct key):

Code `qc.Key = MyKey.Text`

`Textbox1.Text = qc.Resolve(CType(Picturebox1.BackgroundImage, Bitmap))`

Questions and feedback welcome ?

- Barret

Source download:[Download](#)

Meerkat.? - April 27, 2014, 10:03 am

Why not more than 2 colors? It would decrease the image size a lot. This is not really a crypter either.

TheBarret - April 27, 2014, 10:07 am

(Apr 27, 2014 10:03 AM)Mavamaarten~ Wrote: [\[CITE\]](#) Why not more than 2 colors? It would decrease the image size a lot. This is not really a crypter either.

I agree but this what i wanted, and for that encrypter part, the name is borrowed from the well known Qr coding derived to Qcrypter since it does use encryption to the embedded message.

Any more criticism?

coolerfarmer - April 27, 2014, 10:09 am

Seems to be nice! I'll test it out when I get home in a free weeks!

hgdfhsdgdgdfh - April 27, 2014, 10:11 am

You really shouldn't be using the ECB cipher mode. Read:

<https://stackoverflow.com/questions/9039617/is-it-ever-recommended-to-use-the-ecb-cipher-mode>

Quote: If the data is very small (one block) and you're using both a salt and an IV, is it OK?

> Yes

If so, where is the threshold when you stop using it?

> Two blocks. There isn't any practical reason to use ECB, the only reason it exists is because it's a simple example of how to use a block cipher.

You see the patterns on the image, leaking information about the input. Check the article:

https://en.wikipedia.org/wiki/Block_cipher_mode_of_operation and scroll to the part with picture of a penguin. Check the second image from left.

A mode like CBC would be much better suited for applications like this.

Apart from that, good project idea and a nice contribution to the forum.

TheBarret - April 27, 2014, 10:25 am

(Apr 27, 2014 10:11 AM)0xDEADDEAD Wrote: [\[CITE\]](#) You really shouldn't be using the ECB cipher mode. Read:

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Hmm that is interesting, thanks for bringing those links that rly did grabbed my attention.

SIM-1456245 - April 27, 2014, 11:39 am

So you finally did it, ha ? Great job. I like how you can change the colors.

MalwareMop - April 28, 2014, 7:25 am

Looking through the source, and hope I can learn a few things from it, again lovely work!

Ub3rHax0r12 - April 28, 2014, 7:28 pm

hmm, This is a good start and with some work. You could have a full blown project going

iMeetYourMum - April 29, 2014, 12:29 pm

Why only 2 colors ?

After, it's sound good, great job.

TheBarret - April 29, 2014, 2:01 pm

(Apr 29, 2014 12:29 PM)iMeetYourMum Wrote: [\[CITE\]](#) Why only 2 colors ?

After, it's sound good, great job. Mava already said that, no need to repeat ^^

iMeetYourMum - April 29, 2014, 2:42 pm

(Apr 29, 2014 02:01 PM)TheBarret Wrote: [\[CITE\]](#) Mava already said that, no need to repeat ^^ Oh sorry, i don't seen that.

bypass character.