A3 – Steganography

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# Approach

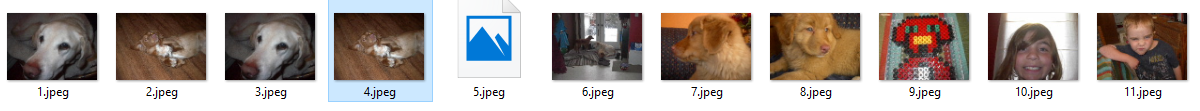
My approach to the assignment was to the assignment was to take it step by step. I first did the reading the jpeg first. I found out that there was a thumbnail alongside the picture so I check a picture within a picture to get this requirement working.

My approach to the other half of the assignment was taking a look at http://www.codeproject.com/Tips/635715/Steganography-Simple-Implementation-in-Csharp this person approach to encrypt and decrypt messages to the pictures. It really helps me a lot in doing this project. I change quite a few things in his code such as making it to the SET standards, changing it to my coding styles and not using struts. Instead I used bool to replace this and int. I modify 4 parts of the code making it more efficient so it does not use unassay variables. The R, G, B logic was his, he made the RGB LSB to zero and using it to hide characters. The he gets char and converts it to the an int to he can hide this information. For the decrypting for the assignment was a lot easier than the decrypting. All I did was loop though the images until I found 8 zeros and then get the LSB and put it into a string.

Receiving images for this project was really interesting. For the Control.img there were 15 images but the 10 image thumbnails looks good but when you go into the picture it a little messed up.



For the wiped.img I only got 11 and 1 Corrupted image that I cannot see.



# How to Use

This program is run base on command line arguments.

1. When you want to extract images for .img files you put
   1. [name of file].img
2. When you want to encode a message in a image
   1. Argument 0[“-e”]
   2. Argument 1[Name of file]
   3. Argument 2[Message]
3. When you want to decode a message in a image
   1. Argument 0[“-d”]
   2. Argument 1[Name of file]

# Bibliography

*List of file signatures*. (n.d.). Retrieved from wikipedia: https://en.wikipedia.org/wiki/List\_of\_file\_signatures

soboh, H. (2014, April 23 ). *Steganography: Simple Impkemenation in C#*. Retrieved from codeproject: http://www.codeproject.com/Tips/635715/Steganography-Simple-Implementation-in-Csharp