

# Homework #6: Forensics

## Assignment Details

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This homework is due by Saturday, March 12th at **1:00 PM** ET. Remember there are no late submissions for the homework so please complete it by then.

**For this assignment, be sure to document your process, don't just give the answers! Write as if you were explaining to yourself before you figured it out.**

Please add the following header to your assignment:

**Name:** {Firstname Lastname}

**UID:** {Your UID}

**Honor Pledge:** *I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination.*

**Assignment Goal:** Apply the techniques and terminologies covered in Lecture #6 to apply basic forensic analysis techniques

## Assignment Questions

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- **Question 1 (25 points): Steganography**

1. Rick Astley sent me this mastered copy of his famed song "Never Gonna Give You Up" and told me there was a secret message in it. Can you find it for me? (hint: there's no password, just hit enter)
2. I've been playing around with LSB steganography lately. I used this site to do something to this image. Can you find my secret message?



- **Question 2 (25 points): File Integrity**

1. There are 3 files here, two of them are the same and one of them is different. Find the two that are the same and supply their md5 and sha256 hashes.

- [File 1](#)
- [File 2](#)
- [File 3](#)

- **Question 3 (25 points): Disk recovery**

1. A masked K1tt3nG4ng member broke in and smashed my flash drive! Vanya managed to recover the flash contents, but can you get my files back? The contents are available here.

- Verify you downloaded the .img correctly! The sha256 hash is  
`06d8da8d8950ce84e0805abc75217411897dd413b6d0b66674768c68720ca9cf`
- Can you find the flag? (Hint: you will need to `mount`)

## Scoring

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This homework is going to be out of 100 points.

Point Breakdown:

- 75 points: problem answers

- 25 points: write-up formatting

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