

## Transmission

Category Misc

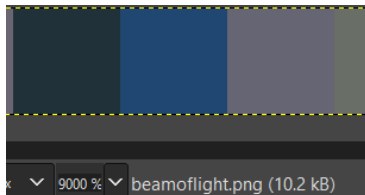
Difficulty Easy

Points 356

### Description:

The United States space force was one day containing routine tests on intergalactic light when they captured a random beam of light. Senior General Hexy Pictora believes this beam of light may actually be a new communication method used by aliens. Analyze the image to find out if any secrets are present. Attached file: beamoflight.png

The attachment is 724 pixels wide and 1 pixel tall.



You can see how it is pixel by pixel, a different color, and this is zoomed in at 9000 percent. I'm guessing the pixel's html hex notation can be decoded. Now of course we are not going to hand-check these 724 pixels one by one. I found a python script for reading in pixel color values with Pillow, and tweaked it a bit to make it output a full hex string. All the hex values will be concatenated.

```
from PIL import Image
im = Image.open('beamoflight.png', 'r')
width, height = im.size
pixel_values = list(im.getdata())

emptyStr = ""

def rgb_to_hex(rgb):
    return '%02x%02x%02x' % rgb

for item in pixel_values:
    hexValue = rgb_to_hex(item)
    emptyStr = emptyStr + hexValue

#print(pixel_values)
print(emptyStr)
```

3a30333a34373a20416c696556e205370656369  
20546869732069732074686520416e64726f6d  
2e0a0a30323a30333a35303a20416c696556e20  
6e2e2054686973206973207468652053616769  
736820746f2065737461626c69736820636f6d  
416e64726f6d6564616e20436f6e6665646572  
74617269616e20416c6c69616e63652e205765  
69736820746f20636f6d6d756e696361746520  
652061726520696e746572657374656420696e

The script and the output we get. After decoding hex, we get the result:

03:47: Alien Species 1: Greetings, unidentified spacecraft. This is the Andromedan Confederation. State your intentions.

02:03:50: Alien Species 2: Hello, Andromedan Confederation

USER-CUT QUOTE CONTENT // MORE STRING BLAH BLAH

02:04:22: Sagittarian Alliance: Thank you, Andromedan Confederation. We are sending the message now.

#####

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#####

02:04:25: Andromedan Confederation: Message received. We will keep this information confidential and use it to aid in our joint defense efforts.

Pretty easy to read through and there is the flag.

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