

# This is APNG

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CATEGORY: Steganography

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By SEXA

This is my pet called p3p3 , after Aerex hacked into my computer and stole the files , as he was fired from my company , my dear frog also got some fishy ideas , me OBV being intelligent saw this coming so I gave this question to my frog to solve , if it gave me the correct flag then it would live or else we know what happens to traitors . You being a filthy animal rights activist are helping my frog p3p3 , so help him get the correct flag. { I am angry as you are helping my frog 😡 😡 }

 p3p3.png

### STEP BY STEP SOLUTION

We are given a png file but it is actually an apng file. An apng file is like a small collection of frames that play on loop like a small video. We can tweak the amount of time it stays in each frame and use it to store information. I used the following python code:

```
from apng import APNG

flag = ""
apng = APNG.open("p3p3.apng")
for i, (png, control) in enumerate(apng.frames):
    delay = control.delay # convert to seconds
```

```
print(f"Frame {i}: {delay:.3f} milliseconds")
flag += f"{chr(delay)}"
print(flag)
```

```
===== RESTART: C:/Users/ad
Frame 0: 73.000 milliseconds
Frame 1: 68.000 milliseconds
Frame 2: 67.000 milliseconds
Frame 3: 123.000 milliseconds
Frame 4: 112.000 milliseconds
Frame 5: 51.000 milliseconds
Frame 6: 80.000 milliseconds
Frame 7: 101.000 milliseconds
Frame 8: 95.000 milliseconds
Frame 9: 116.000 milliseconds
Frame 10: 72.000 milliseconds
Frame 11: 105.000 milliseconds
Frame 12: 53.000 milliseconds
Frame 13: 95.000 milliseconds
Frame 14: 105.000 milliseconds
Frame 15: 115.000 milliseconds
Frame 16: 95.000 milliseconds
Frame 17: 52.000 milliseconds
Frame 18: 80.000 milliseconds
Frame 19: 78.000 milliseconds
Frame 20: 71.000 milliseconds
Frame 21: 125.000 milliseconds
IDC{p3Pe_tHi5_id_4PNG}
```

The ASCII values of the characters in the flag are stored as the time delay between each frame. Piecing it together we have our flag.

**FLAG: IDC{p3Pe\_tHi5\_id\_4PNG}**