

Stworzyłam obrazek w paint i zapisałam w formacie bmp:



motyl.bmp

Z pomocą strony <https://hexed.it/> zmieniłam 42 na 41 w zaznaczonym miejscu:

motyl2.bmp ×	motyl.bmp ×	
00000000	89 50 4E 47 0D 0A 1A 0A	00 00 00 0D 49 48 44 52 ěPNG.....IHDR
00000010	00 00 01 6C 00 00 01 58	08 02 00 00 00 F8 16 51 ...l...X.....°.Q
00000020	55 00 00 00 01 73 52 47	42 00 AE CE 1C E9 00 00 U....sRGB.«.ø..
00000030	00 04 67 41 4D 41 00 00	B1 8F 0B FC 61 05 00 00 ..gAMA...Å.ªa...
00000040	00 09 70 48 59 73 00 00	0E C3 00 00 0E C3 01 C7 ..pHYs... . .
00000050	6F A8 64 00 00 29 8F 49	44 41 54 78 5E ED 9D FD o;d...)ÅIDATx^φ¥²
00000060	8F 15 D7 99 E7 F7 5F D9	1F 46 33 19 CD 46 9E CD Å.øτ≈_J.F3.=FP=
00000070	5A B2 56 D6 7A A2 59 0B	59 4A 9C D1 0C 26 9A 21 ZVfzóY.YJ£T.&Û!
00000080	0E C2 8E 6C D2 38 09 B1	03 6E 37 C4 81 B6 C1 CD .TÄT8.¸.n7-ü J=
00000090	4B 43 D3 EF 60 63 1B 8C	03 01 EC 75 0C 0D E6 C5 KC¸n`c.î...øu...µ†
000000A0	BC BF 43 B7 BB 69 FA 85	37 07 CC 5B B7 93 99 5D J}C¸i·à7.†[øÖ]
000000B0	AD B4 BF EF B7 EA B9 7D	FA F4 A9 BA 97 7B 6F BD i}¸[ø]·[¸ù{o
000000C0	9E 53 5F E9 A3 52 F5 BD	A7 CE AD 3A 75 CE A7 9F PS_øÚR}ø†i:u†of
000000D0	73 EA 54 D5 7F FA CF 7F	F3 18 21 84 D4 0D 25 42 sΩTfð·=ð≤.!ä¸.%B
000000E0	08 89 04 25 42 08 89 04	25 42 08 89 04 25 42 08 .ë.%B.ë.%B.ë.%B.
000000F0	89 04 25 42 08 89 04 25	42 08 89 04 25 42 08 89 ë.%B.ë.%B.ë.%B.ë
00000100	04 25 42 08 89 04 25 42	08 89 04 25 42 08 89 04 %B ä %B ä %B ä

motyl2.bmp ×	
00000000	89 50 4E 47 0D 0A 1A 0A 00 00 00 0D 49 48 44 52 ěPNG.....IHDR
00000010	00 00 01 6C 00 00 01 58 08 02 00 00 00 F8 16 51 ...l...X.....°.Q
00000020	55 00 00 00 01 73 52 47 42 00 AE CE 1C E9 00 00 U....sRGB.«.ø..
00000030	00 04 67 41 4D 41 00 00 B1 8F 0B FC 61 05 00 00 ..gAMA...Å.ªa...
00000040	00 09 70 48 59 73 00 00 0E C3 00 00 0E C3 01 C7 ..pHYs... . .
00000050	6F A8 64 00 00 29 8F 49 44 41 54 78 5E ED 9D FD o;d...)ÅIDATx^φ¥²
00000060	8F 15 D7 99 E7 F7 5F D9 1F 46 33 19 CD 46 9E CD Å.øτ≈_J.F3.=FP=
00000070	5A B2 56 D6 7A A2 59 0B 59 4A 9C D1 0C 26 9A 21 ZVfzóY.YJ£T.&Û!
00000080	0E C2 8E 6C D2 38 09 B1 03 6E 37 C4 81 B6 C1 CD .TÄT8.¸.n7-ü J=
00000090	4B 43 D3 EF 60 63 1B 8C 03 01 EC 75 0C 0D E6 C5 KC¸n`c.î...øu...µ†
000000A0	BC BF 43 B7 BB 69 FA 85 37 07 CC 5B B7 93 99 5D J}C¸i·à7.†[øÖ]
000000B0	AD B4 BF EF B7 EA B9 7D FA F4 A9 BA 97 7B 6F BD i}¸[ø]·[¸ù{o
000000C0	9E 53 5F E9 A3 52 F5 BD A7 CE AD 3A 75 CE A7 9F PS_øÚR}ø†i:u†of
000000D0	73 EA 54 D5 7F FA CF 7F F3 18 21 84 D4 0D 25 42 sΩTfð·=ð≤.!ä¸.%B
000000E0	08 89 04 25 42 08 89 04 25 41 08 89 04 25 42 08 .ë.%B.ë.%A.ë.%B.
000000F0	89 04 25 42 08 89 04 25 42 08 89 04 25 42 08 89 ë.%B.ë.%B.ë.%B.ë
00000100	04 25 42 08 89 04 25 42 08 89 04 25 42 08 89 04 %B ä %B ä %B ä

Wynikiem było:



motyl2.bmp

Następnie obliczałam hash SHA256 dla obu plików:

```
import hashlib

h1 = hashlib.sha256()
h2 = hashlib.sha256()

with open ("motyl1.bmp","rb") as f:
    im1 = f.read()

with open ("motyl2.bmp","rb") as f:
    im2 = f.read()

h1.update(im1)
h2.update(im2)

md51 = hashlib.md5(im1)
md52 = hashlib.md5(im2)

print("motyl1.bmp: ", h1.hexdigest())
print("motyl2.bmp: ", h2.hexdigest())
```

motyl1.bmp: ef25f5f42baba7118a9bcb3a15e0c72255a4cc637985ebe28e2436b49c92bb0b
motyl2.bmp: 4d13d749f3b58e80ef6cbc6b58824fb606105366c05b77b561a2ca77bee469f0