

If we use a hex Editor, we can see that this is a JPG image by looking at the header. We have to recover the image by editing the magic numbers. Here is how :

1. Upload the image on <https://hexed.it/>
2. Edit the file :

5C	78	FF	E0	00	10	4A	46	49	46	00	01	01	00	00	01	\x a..JFIF.....
00	01	00	00	FF	DB	00	43	00	08	06	06	07	06	05	08 █.C.....
07	07	07	09	09	08	0A	0C	14	0D	0C	0B	0B	0C	19	12
13	0F	14	1D	1A	1F	1E	1D	1A	1C	1C	20	24	2E	27	20 \$.'
22	2C	23	1C	1C	28	37	29	2C	30	31	34	34	34	1F	27	",#..(7),01444.'

FF	D8	FF	E0	00	10	4A	46	49	46	00	01	01	00	00	01	+ \x a..JFIF.....
00	01	00	00	FF	DB	00	43	00	08	06	06	07	06	05	08 █.C.....
07	07	07	09	09	08	0A	0C	14	0D	0C	0B	0B	0C	19	12
13	0F	14	1D	1A	1F	1E	1D	1A	1C	1C	20	24	2E	27	20 \$.'
22	2C	23	1C	1C	28	37	29	2C	30	31	34	34	34	1F	27	",#..(7),01444.'
39	3D	38	32	3C	2E	33	34	32	FF	DB	00	43	01	09	09	9=82<.342 █.C...

Now open the image and copy the message

THE FLAG : picoCTF{r3st0r1ng_th3_by73s_2326ca93}
~Z4que