

FAKE



▶ Actions

🕒 Version History

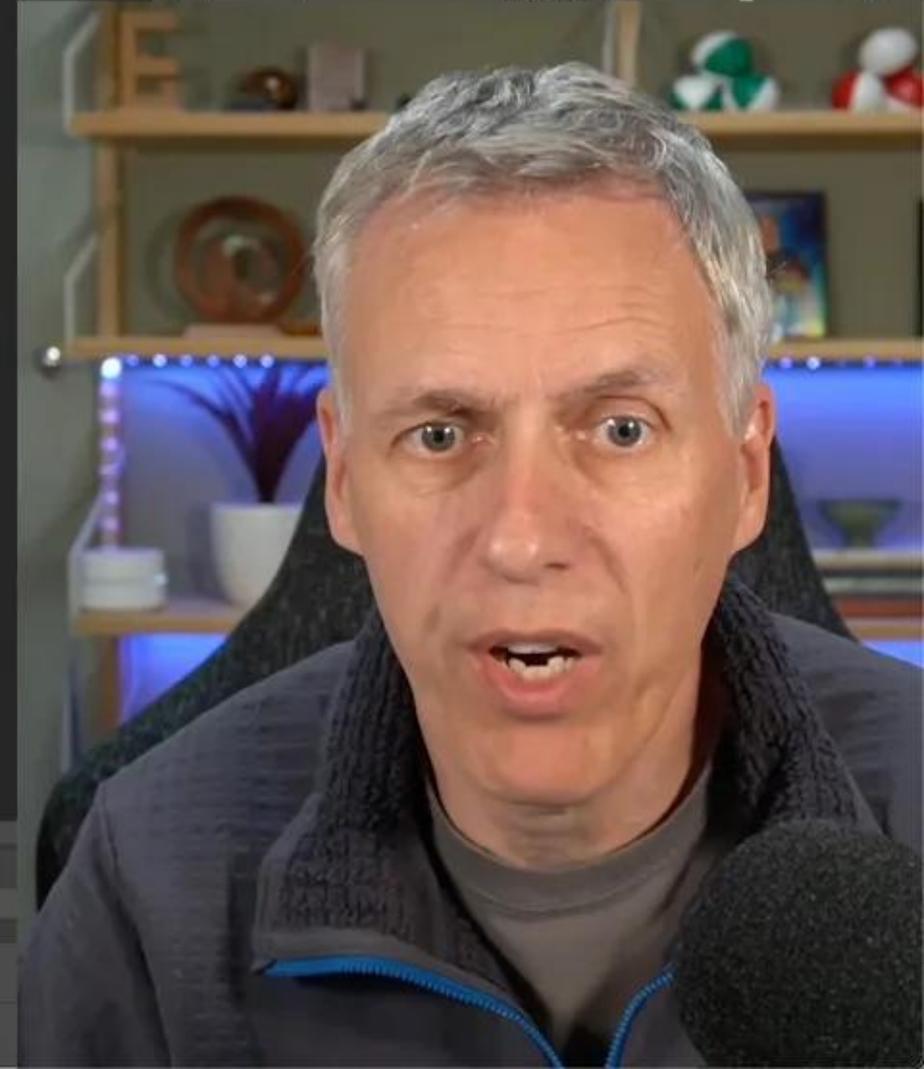
🗑️ Brush Settings

🖌️ Brushes

A Character

🗨️ Paragraph

136.83%



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00 02:00f 04:00f 06:00f 08:00f 10:00f 12:00f 14:00f 16:00f 18:00f 20:00f

Layer 1

(29.05 fps)

1
00:00:00,640 --> 00:00:06,960
hello so this little video of a dog uh supposedly
being rescued from an oncoming train has got kind

2
00:00:06,960 --> 00:00:12,480
of popular it is a fake video and there's a number
of ways we can tell it's fake and i'm going to go

3
00:00:12,480 --> 00:00:17,120
through them. But you know first of all something
uh that's pretty common in fake videos is this

4
00:00:17,120 --> 00:00:21,680
ridiculously shaky camera i just look at it kind
of wobbling all over the place like i don't know

5
00:00:21,680 --> 00:00:27,120
what's supposed to be going on there. But you know
the the way the reason is wobbly is the the camera

6
00:00:27,120 --> 00:00:32,000
was originally probably done on a tripod so they
can composite two shots and then they have to add

7
00:00:32,000 --> 00:00:38,960
the wobble later and so it ends up looking like
this ridiculously uh weirdly wobble sinusoidal

8
00:00:38,960 --> 00:00:45,920
thing. But yeah there's other reasons we can tell
it's fake and it kind of all boils down to shadows

9
00:00:45,920 --> 00:00:52,640
because this is if we didn't have these shadow
clues it would be fairly uh convincing but we do

10
00:00:52,640 --> 00:00:59,600
and this is something another person pointed out
there was let's see this guy here professor farid

11
00:00:59,600 --> 00:01:04,640
did this shadow analysis showing the directions
of the shadow it doesn't seem to match up with the

12
00:01:04,640 --> 00:01:10,320
guy in the dog now this is actually a little hard
to do because there's a ditch there and so it's

13
00:01:10,320 --> 00:01:15,920
you did you're not you're not projected onto flat
ground so it's a little difficult to get exactly

14
00:01:15,920 --> 00:01:20,720
the same things but there's a much simpler way
of doing it actually much simpler way of showing

15
00:01:20,720 --> 00:01:28,640
that it's fake now uh the first thing is if we zip
back to the start we can see yeah before he does

16
00:01:28,640 --> 00:01:34,880
this little cut to zoom in that there's this
shadow right here which is the shadow of this

17
00:01:34,880 --> 00:01:41,840
uh some lamp over here now this is a shadow here
this is a shadow of a rock that's there so this

18
00:01:41,840 --> 00:01:46,560
shadow isn't going to move as the sun moves this
is a shadow of a lamp and as the sun moves around

19
00:01:46,560 --> 00:01:54,160
this will move around so i'm just going to let's
see i'll just take a little copy of that area for

20
00:01:54,160 --> 00:02:00,320
now and then let's move forward now you'll see
he does this little zoom in here he zooms in to

21
00:02:00,320 --> 00:02:04,800
see the train coming around the bend but this
actually gives him the opportunity to do a cut

22
00:02:04,800 --> 00:02:11,600
if he didn't do that zoom you would see the shadow
pop now if i zoom in again here you will see

23
00:02:12,160 --> 00:02:17,920
that uh this shadow has moved it's moved in this
direction it's moved away so this gap between

24
00:02:17,920 --> 00:02:26,400
the two is bigger now i can demonstrate that by
simply taking the clip i did earlier and create

25
00:02:26,400 --> 00:02:35,920
a new file and paste in that clip now i'm going
to go back and i'm going to go forward to where

26
00:02:35,920 --> 00:02:42,880
the train is coming around the bend and i'm going
to do a similar uh clip around there copy that

27
00:02:43,600 --> 00:02:53,520
and paste that over the top of this now make the
top layer transparent so i can line up the shadow

28
00:02:57,840 --> 00:03:02,160
now we can see if i flip between these two layers
the one with the man we see that the shadow is

29
00:03:02,160 --> 00:03:07,200
close to this rock and the one with the train the
shadow is much further away and obviously the sun

30
00:03:07,200 --> 00:03:12,160
hasn't moved that much in a few seconds so this
is two separate shots and that in itself kind

31
00:03:12,160 --> 00:03:17,600
of debunks it but we may as well keep going and\h
look at what else is going on here another thing\h\h

32
00:03:17,600 --> 00:03:22,000
that's very hard to do with shadows is if you\h
have something casting a shadow then something\h\h

33
00:03:22,000 --> 00:03:27,920
else comes along and obscures that object and\h
the shadow behind it now you've got two shadows\h\h

34
00:03:27,920 --> 00:03:33,120
and if you're trying to composite the actual\h
guy in you've got to kind of remove his shadow\h\h

35
00:03:33,680 --> 00:03:39,440
and this doesn't happen here you'll see that when\h
when we get close when the train gets close to him\h\h

36
00:03:40,160 --> 00:03:47,120
you see he's lying down here and he kind of lifts\h
up his head and you see a shadow underneath so you\h\h

37
00:03:47,120 --> 00:03:52,880
see this little shadow here of his head as you\h
go up problem is that shadow should not exist\h\h

38
00:03:53,440 --> 00:03:59,120
because what we have here is a train obscuring\h
everything now if something's casting a shadow and\h\h

39
00:03:59,120 --> 00:04:04,480
we move something in front of it that obscures\h
the shadow like here i'm moving this uh this\h\h

40
00:04:04,480 --> 00:04:11,920
cardboard here you'll see there is no shadow under\h
this this model's head so that's yet another way\h\h

41
00:04:11,920 --> 00:04:18,000
that we can see that there is there's nothing\h
else going on you can also see that in this\h\h

42
00:04:18,560 --> 00:04:24,960
scene uh we have this shadow here over what looks\h
like a tree or something but when the train comes\h\h

43
00:04:24,960 --> 00:04:30,880
along it's still there you can see the edge of\h
that shadow there which again shouldn't be there\h\h

44
00:04:30,880 --> 00:04:36,320
so we shouldn't have any shadow and i duplicate\h
that here with the shadow of a little table\h\h

45
00:04:36,960 --> 00:04:42,960
when the card comes along no shadow is visible\h
whatsoever no shadow visible here so again that\h\h

46
00:04:42,960 --> 00:04:49,040
shows that it's uh not actually possible now an\h
interesting thing with this particular setup here\h\h

47
00:04:49,040 --> 00:04:55,440
i cut this notch in to simulate the gap between\h
the train cars and you'll see when it goes over\h\h

48
00:04:55,440 --> 00:05:03,200
the guy's head right here you will see that\h
the line does not cut through his head because\h\h

49
00:05:03,200 --> 00:05:09,200
his head is in a different position in fact it\h
comes over a little bit later and you see that\h\h

50
00:05:09,200 --> 00:05:15,280
uh in this if you look at this bush over here you\h
kind of see a similar type of effect you see the\h\h

51
00:05:15,280 --> 00:05:23,040
uh line there but the the bit of the bush that's
illuminated pops into at a different angle and

52
00:05:23,040 --> 00:05:28,240
you see this uh throughout the the background here
you see there's gonna bits of grass pop in and out

53
00:05:29,040 --> 00:05:34,000
then when it comes to his head you'll see that
the line actually goes straight through his head

54
00:05:34,000 --> 00:05:36,560
which it shouldn't actually do
it should actually be kind of

55
00:05:37,520 --> 00:05:42,880
on one side or the other depending on the angle
of the sun and again you can see this shadow here

56
00:05:44,000 --> 00:05:49,280
and the shadow is still there so it's
fake about uh four different ways

57
00:05:51,280 --> 00:05:56,480
it's a a reasonably well done video though
another thing you can notice actually is

58
00:05:56,480 --> 00:06:01,920
that when you zoom into this area here when
the train's kind of getting close you notice

59
00:06:01,920 --> 00:06:07,360
everything around here get all kind of fuzzy
and blurry and kind of dark before the train

60
00:06:07,360 --> 00:06:12,160
even gets there and i think that's just because
they had to kind of blur things out because there

61

00:06:12,160 --> 00:06:17,840

was so much going on shadows are tricky you want
to shoot these these fake things on an overcast