**BBC Radio 3**

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following the trail of a share your direct of something called the have affected brain add to your latest research explain how someone like matisse says could become such a prolific liar so usually only lie we have been negative emotional response to align make

people think that line is immoral and so they feel bad about it they have this aroused responds that's basically what lie detection is about threat was that swelling we start twitching beakers of this arousal and this arousal is a good thing in a way because it carbs are dishonesty so if we take an emotional arousal away will be nothing that stops us from lying bring down boy one steady and students were given a pill which is called a beard and turned his hand to start their arousal response in after given that killed they were more likely to lie on an exam then another group so that suggest that yes arousal stop the line in if you take away more likely to lie so what we looked at is what happens when you give someone an opportunity to lie again and again and again to gain a reward we had just been coming to a lab we incentivise them to live for their own benefit and it hurt another

person what we found is that at the beginning someone lied a little bit better after a while they allied more and more and more we looked in her in their brains to see looking at specifically part of the brain that every emotion what we sa is that at the beginning there was a large emotional response to rising but as time went by that emotion respond went down in the more in debt the more likely prison was to lie on their necks between you that they got so if you look at someone who lies a lot like example that you just described you would assume that perhaps they don't have this emotional response or presumably they had at some point but it had adapted and no longer have it so there's really nothing internal stopping them from line one thing that has struck me in you're researching the talk about this way this is a decentralisation and the small like me to live her comfort her lack of arousal that stops us a line but if if the scale of line is always accelerating escalating house in the brain or

is being constantly relatively aroused by the way in which their amount of lies to tell the said of the repercussions of the like get bigger so not to say in the real world was a meanie outside la and there are many reasons why allies will escalate what you call this the bracelet right sometimes you need to cover up other allies sometimes incentives grow larger so it's not all about this emotional response and the way we think about adaptation is agitation is related to every experience that we have get a analogous is perfumed you buy perfume 1st you put it on it really smells quite strongly 2nd you put it on less sell amount to go buy a new car even smellier own perfumes to put a lot on and then people around you start moving away maybe you can really smell that much so it's a lion is a bit like that a potentially a question if you lie and that's you will get an emotional response brain

so will be measured as the emotional are not really much response the response in the brain in the amygdala to a unit of line we can measure line in british pounds we were able to do that now that's the idea is that through the same amount of lie the emotion response goes down so this does not mean that if you lie a huge tumour i mean you won't have any response is just that the relative response goes down that perfume analogies so persuasive on never been to a myself by again that is no difference between individuals lying and broad organisations like i'm thinking of advertising slogans and political campaigns one might say we expect its corporations and politicians to deceive us have we become okay without form of lying so are you asking whether we adapt to other people's line yes so those research showing that you also a damp

it's to other people's minds at the beginning you would have quite a negative response to someone who's lying but after a while you can get used to it you don't have as much of a negative response is also the idea that orders conformity in everything ray we've learned those we learn from other people so if other people around us my were more likely to lie an astra anything i'm just fine we just don't everything from other people also indeed in organizations were people start mining and other people will die because of people line and so on and so on and then my eyes can expand the so lies in the sensecam mccullum cultural products into thing is something designed have a history that sense some areas more adapted a willing to live another is to think a culture of tolerance is quite high relatively at the moment a lion well those indeed social norms and social norms of affairs for a different reason and in different places in different countries will be different social norms in different rules and yes it's been shown that in different countries people have kind of different

thresholds for aligning so yes i think that's true you might think about what we wore dukan get a langer what punishment you may get a line mates one thing that stops lying is extra punishment not only are internal punishment that's feeling bad about it but how likely is it that we will be cuts and that's also different in different organizations different countries but it is also something else it is the opposite punishment is that lying sounds like so much more for fun then telling the truth sometimes and normal to become normalised is that your argument is strange to be so how hidebound to the truth necessarily think that people think 9 he's fine i think it's actually rear to have people see line as something find something life is quite extravagant an exuberant doug if you if you feel that way that some engaging about him this are shy you

are you absolutely and also think is kind of an ambiguity between the idea of lying on the idea of forming because i'm an actor on stage is performing something that's in a sense of fiction it's not true maybe have to believe that a bit too if there's a method actor needs to believe but only half believe that in the mid to so was that kind of character so he he he got the stimulus the talking about from from a good audience response he got what he wanted out of doing it so that enabled him to carry on but i also think that this of the ethical moral dimension think you're implying by they're being in by harriet of stimulus how we feel lonely we tell a lie is softened or mitigated somewhat by the earlier imagining yourself being in a performance and it's a different life to the one that urine which is perhaps another kind of like the one that's quite easy to pull off an away there is another point which is we rationalise as are online if there is a good way a good reason to rationalise

said we won't have again in russia response and then we wouldn't my more end in a study as well as many other studies what we see is that people like a little bit in a study for example the good life a lot they could live a 60 £ but no the lie only by 6 and 8 pounds makes the light enough to get very warm it that still be able to see themselves as moral people and that's a very common thing the average person would just slide amid a bit to be able to think of themselves as honest and it's an interesting thing is that people think that the more honest in what they are and i also think the more honest and other people might cry when he does that it is of course was not the average person what happened to him at the end of his life he went to london 1966 and immediately started getting into how long are activities is a film-maker he started the london film-makers co-operative he was involved with underground magazines he's here is an article by him in the cause of magazine that the famous us magazine that causes the great great stink the group they're

school could issue here contribute to its magazine he was the organiser of a matter of en garde music festival the ices festival which is the international carnival for experimental sound he has john cage