TED演讲者: Poppy Crum | 波碧·克文

演讲标题: Technology that knows what you're feeling | 科技洞悉你的感受

内容概要: What happens when technology knows more about us than we do? Poppy Crum studies how we express emotions -- and she suggests the end of the poker face is near, as new tech makes it easy to see the signals that give away how we're feeling. In a talk and demo, she shows how "empathetic technology" can read physical signals like body temperature and the chemical composition of our breath to inform on our emotional state. For better or for worse. "If we recognize the power of becoming technological empaths, we get this opportunity where technology can help us bridge the emotional and cognitive divide," Crum says.

当科技比我们更了解自己时,会发生什么事情呢?波碧·克文研究人类如何表达情绪。她认为扑克脸的时代终将结束,因为科技能轻易地读懂我们透露出来的情绪信号。在一次演讲和技术展示中,波碧·克文展示了如何透过「同理心技术」读懂像身体温度和呼吸中的化学成份这些生理讯息,而这些讯息能透露我们的感受。无论好坏,克文认为「如果我们能体悟同理心的力量,就能掌握科技,用科技幫助我们跨越情感和认知的鸿沟。」

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What happens when technology knows more about us than we do?	當科技比我們更了解自己時, 會發生甚麼事呢? [00:12]	
A computer now can detect our slightest facial	現今的電腦, 它分辨得出真笑和假笑。[00:17]	
microexpressions and be able to tell the difference between a		
real smile and a fake one.		
That's only the beginning.	但這只是個開始。[00:25]	
Technology has become incredibly intelligent and already	科技日益進步,它知道很多我們的內心世界。	
knows a lot about our internal states.	[00:27]	
And whether we like it or not, we already are sharing parts of	f不管我們喜歡與否,我們已將自己部分內心世界分	
our inner lives that's out of our control.	享出去, 這不在我們的掌控之中。[00:33]	
That seems like a problem, because a lot of us like to keep	那似乎是個問題,因為我們當中很多人,讓旁人無	
what's going on inside from what people actually see.	從察覺。[00:43]	
We want to have agency over what we share and what we	我們想要掌握自主權去選擇 什麼可被分享、什麼	
don't.	不可以。[00:50]	
We all like to have a poker face .	我們都想要張撲克臉。[00:55]	
But I'm here to tell you that I think that's a thing of the past.	[00:59]	
And while that might sound scary, it's not necessarily a bad	儘管這件事好像頗為嚇人,[01:03]	
thing.		
I've spent a lot of time studying the circuits in the brain that		
create the unique perceptual realities that we each have.	特的感知。[01:08]	
slightest: adj.极不重要的,最少的 facial: adj.面部的,表面的;脸的,面部用的		
地;非常地 poker face: 一本正经的面容;面无表情的人 perceptual: adj.		
And now I bring that together with the capabilities of curren		
technology to create new technology that does make us	好、 感受更多、聯繫更多。[01:15]	
better, feel more, connect more.	"表彩初为西法列湾何日的、杂烟西按妥片十一张白	
And I believe to do that, we have to be OK losing some of ou	「川我認為安達到這個目的,我们安接受失去一些目主權。[01:24]	
agency.	和某些動物在一起時,真的很奇妙。 我們可知道牠	
With some animals, it's really amazing, and we get to see	們的內心經歷。[01:29]	
into their internal experiences.		
We get this upfront look at the mechanistic interaction	我們可直接得知[01:36]	
between how they respond to the world around them and		
the state of their biological systems.	這就具來白淮化的壓力,像具准令。	
This is where evolutionary pressures like eating, mating and	們不會被吃掉, 促使確定性行為 回應我們身邊的資	
making sure we don't get eaten drive deterministic behavioral responses to information in the world.	記。[01:45]	
And we get to see into this window, into their internal states	而我们透過這個窗口,透視他们的心理狀態及生理 變化。[01:55]	
and their biological experiences. see into: 调查;观察的性质 upfront: adj.预付的;在前面的;正直的,坦率的		
械论的;机械学的 respond to: 响应 evolutionary: adj.进化的;发展的;渐		
的)杂交/v.交配;使配对;使紧密配合(mate的现在分词) deterministic: adj.		
responses: n.响应回应	WHILE ITHE PROPERTY Deliavioral, auj. 11/989	
	這真的很酷。[02:02]	
Now, stay with me for a moment I'm a violinist , not a	現在請你們忍受我一會兒。[02:03]	
singer.		
But the spider's already given me a critical review.		
but the spider 3 already given line a critical review.		

(Video) (Cinging in a low pitch)	(低音唱歌)[02:16]
(Video) (Singing in a low pitch)	
(Singing in a middle pitch)	(中音唱歌)[02:19]
(Singing in a high pitch)	(高音唱歌)[02:23]
(Singing in a low pitch)	(低音唱歌)[02:26]
(Singing in a middle pitch)	(中音唱歌)[02:29]
(Singing in a high pitch)	(高音唱歌)[02:31]
(Laughter) Poppy Crum: It turns out, some spiders tune their	由此可知, 有些蜘蛛會調節自己的蜘蛛網, 像小提
webs like violins to resonate with certain sounds.	琴一樣調至特定的音階。[02:33]
And likely, the harmonics of my voice as it went higher	同樣地,我唱歌的音調 隨分貝數拉高, 重新創造類
coupled with how loud I was singing recreated either the	似捕獵者, 蝙蝠或鳥的回聲定位。 而蜘蛛做了牠應
predatory call of an echolocating bat or a bird, and the	該做的事。[02:41]
spider did what it should.	
stay with: 同住在一起;把坚持下去;与并驾齐驱 violinist: n.小提琴消	完善老 小坦廷宗 critical : adi 修字的:[按]修用的:
批评的,爱挑剔的;危险的;决定性的;评论的 Poppy: n.罂粟花;罂粟属	
(violin的复数) resonate: vt.共鸣;共振/vi.共鸣;共振 harmonics: n.和声学	
对的;共轭的(couple的过去分词形式) recreated : vi.娱乐;消遣/vt.再创造;使	得到娱乐/消遣 predatory: adj. 掠夺的, 掠夺成性
的;食肉的;捕食生物的	
It predictively told me to bug off.	地預言性地叫我離開。[02:53]
I love this.	我愛這樣。[02:56]
The spider's responding to its external world in a way that	蜘蛛回應外在環境時, 我們藉此看到並了解牠的內
we get to see and know what's happening to its internal	心世界。[02:58]
world.	
Biology is controlling the spider's response; it's wearing its	生理控制著蜘蛛的反應, 牠把自己最真實的情感流
internal state on its sleeve.	露出來。[03:06]
But us, humans we're different.	但我們,人類 — 我們不一樣。[03:13]
We like to think we have cognitive control over what people	我們自認能夠控制自己的感知能力。我們的內心
see, know and understand about our internal states our	世界、 我們的情感、我們的局促不安、 及我們的
emotions, our insecurities , our bluffs , our trials and	反應。[03:17]
tribulations and how we respond.	
We get to have our poker face.	我們需要一張撲克臉。[03:31]
Or maybe we don't.	但或者,我們其實並不需要。[03:35]
Try this with me.	跟我一起嘗試這樣做。[03:37]
Your eye responds to how hard your brain is working.	你的眼睛能反映出大腦使用的程度。[03:38]
The response you're about to see is driven entirely by mental	
effort and has nothing to do with changes in lighting.	
in a way: 在某种程度上;有点儿;十分激动 cognitive: adj.认知的,认识的	insecurities: n 不安全·不牢靠·无押据·心神不定
bluffs: n.吓唬:绝壁;断崖/vt.吓唬;愚弄/vi.吓唬/adj.直率的;陡峭的 tribulat	
n点 🚉	ions. II. Directional Section 1.
We know this from neuroscience	我保證這有神經科學的根據。[03:48]
I promise, your eyes are doing the same thing as the subject	
in our lab whather you want them to or not	沙沙城市们复数主义以有的 城市首城伯河的争,無
in our lab, whether you want them to or not.	論你願意與否。[03:49]
At first, you'll hear some voices.	首先你會聽到一些聲音。[03:56]
Try and understand them and keep watching the eye in front	[] [] [] [] [] [] [] [] [] []
of you.	
It's going to be hard at first, one should drop out , and it	一開始會有點難。 要放棄真的很容易。[04:01]
should get really easy.	
You're going to see the change in effort in the diameter of	從瞳孔的直徑 你可以看見心理因素的變化。
the pupil.	[04:05]
(Video) (Two overlapping voices talking)	(兩種聲音重疊) 智能科技仰賴個人數據。
(g)	[04:09]
(Single voice) Intelligent technology depends on personal	(一種聲音) 智能科技仰賴個人數據。[04:12]
data	
(Two overlapping voices talking)	(兩種聲音重疊) 智能科技仰賴個人數據。
(Two overlapping voices talking)	[04:15]
(Single voice) Intelligent technology depends on personal	
1-4-	
Vous oue gives over your policy force	你的瞳孔不會說謊。[04:21]
Your eye gives away your poker face.	你的眼睛拆穿了你的撲克臉。[04:22]
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When your brain's having to work harder, your autonomic	當腦袋愈努力地想事情,自主神經系統驅使瞳孔擴
nervous system drives your pupil to dilate.	大。[04:25]
neuroscience: n.神经系统科学(指神经病学,神经化学等) drop out: 退出;	
叠;盖过(overlap的ing形式) autonomic: adj.自律的;自治的 dilate: vi.扩大	式:膨胀;详述/vt.使扩大;使膨胀

When it's not, it contracts.	在相反的情況下,瞳孔縮小。[04:30]
When I take away one of the voices, the cognitive effort to	當只有一種聲音時, 理解說話內容需要的精力減
understand the talkers gets a lot easier.	少。[04:32]
could have put the two voices in different spatial locations,	
could have made one louder.	種聲音調大聲,[04:37]
You would have seen the same thing.	出來的效果也是一樣。[04:42]
We might think we have more agency over the reveal of our	
internal state than that spider, but maybe we don't.	自己的内心狀態與否,但或許不如我們所想像的。 [04:44]
Today's technology is starting to make it really easy to see the signals and tells that give us away.	現今科技很容易就讀懂 我們内心深處釋出的信號。[04:52]
The amalgamation of sensors paired with machine learning	, 傳感器連同機器學習,與我們、周遭、環境相結合
on us, around us and in our environments, is a lot more than	
cameras and microphones tracking our external actions.	[04:58]
Our bodies radiate our stories from changes in the	我們身體的生理溫度變化 輻射出我們的故事。
temperature of our physiology .	[05:12]
talkers: n.说话的人;健谈者;空谈者 spatial: adj.空间的;存在于空间的;受	空间条件限制的 amalgamation: n.融合,混合;合并
联合;[治]混汞法,汞齐化法 sensors: n.[自]传感器,感应器;感测器(sensor的	复数) paired: adj.[计]成对的;配对的/v.使成对;配合
(pair的过去分词)	diate: vt.辐射;传播;流露;发射;广播/vi.辐射;流露;发
光;从中心向各方伸展/adj.辐射状的,有射线的 physiology: n.生理学;生理	
We can look at these as infrared thermal images showing u	
behind me, where reds are hotter and blues are cooler.	色代表低溫。[05:18]
The dynamic signature of our thermal response gives away	動態的身體溫度徵象 讓我們對壓力的反應露了餡
our changes in stress, how hard our brain is working, whethe	
we're paying attention and engaged in the conversation we	專注, 甚至我們是否像身歷其境遭火炙。 甚至我們
might be having and even whether we're experiencing a	是否像身歷其境遭火炙。[05:24]
picture of fire as if it were real.	
We can actually see people give off heat on their cheeks in	人們的臉頰真的會散發出熱力 來回應火焰的影
response to an image of flame.	像。[05:41]
But aside from giving away our poker bluffs, what if	除了假裝冷漠露了餡,如果反應的人體溫度數據也
dimensions of data from someone's thermal response gave	讓人際關係露了餡呢? [05:47]
, ,	EXX (1941) PROTE 2 NOT 10 . []
away a glow of interpersonal interest?	
away a glow of interpersonal interest? Tracking the honesty of feelings in someone's thermal image	e 用溫度圖追蹤人的真誠感受 可能是部分墜入愛河
away a glow of interpersonal interest? Tracking the honesty of feelings in someone's thermal image might be a new part of how we fall in love and see attraction	e 用溫度圖追蹤人的真誠感受 可能是部分墜入愛河 n. 和偵測吸引力的新穎方式。[05:58]
away a glow of interpersonal interest? Tracking the honesty of feelings in someone's thermal image might be a new part of how we fall in love and see attraction infrared: n.红外线/adj.红外线的 thermal: adj.热的;热量的;保热的/n.上	e 用溫度圖追蹤人的真誠感受 可能是部分墜入愛河 n. 和偵測吸引力的新穎方式。[05:58] 升的热气流 reds: n.红胶丸(安眠药的俚称);红色的物
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away a glow of interpersonal interest? Tracking the honesty of feelings in someone's thermal imaging in the honesty of feelings in someone's thermal imaging in the honesty of how we fall in love and see attraction infrared: n.红外线/adj.红外线的 thermal: adj.热的;热量的;保热的/n.上活品(red的复数) blues: n.忧郁布鲁斯歌曲;蓝色物(blue的复数)/v.把染成蓝于 give off: 发出(光等);长出(枝,杈等) in response to: 响应;回答;对有,大小 Our technology can listen, develop insights and make	e 用溫度圖追蹤人的真誠感受 可能是部分墜入愛河 n. 和偵測吸引力的新穎方式。[05:58] 升的热气流 reds: n.红胶丸(安眠药的俚称);红色的物 蓝色(blue的第三人称单数) engaged in: 从事于;忙 反应 aside from: 除…以外 dimensions: n.规模, 我們的科技可以聆聽、洞察和預測 我們心理和生
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feelings.	-	[06:59]
There's a dynamic mixture of acetone , is	soprene and carbon	由丙酮、異戊二烯和二氧化碳 所組成的混合物成
dioxide that changes when our heart sp		分, 在心跳加速、肌肉緊張時不斷變化。 但我們的
muscles tense, and all without any obvio		行為不會有明顯的改變。[07:06]
behaviors.	<u> </u>	
Alright, I want you to watch this clip wit	h me.	請你們跟我一同看這段影片。[07:18]
Some things might be going on on the	side screens, but try	有些東西可能出現在兩旁的螢幕, 但嘗試把注意力
and focus on the image in the front and	the man at the	集中在前面的影像,和窗戶旁的男人。[07:20]
window.		
(Eerie music)		(怪異的音樂) [07:31]
(Woman screams) PC: Sorry about that.	I needed to get a	(女人的尖叫) 抱歉讓你們經歷這些,我需要你們
reaction.		的反應。[07:39]
(Laughter) I'm actually tracking the cark	oon dioxide you	(笑聲) 我正追蹤你們在這房間 呼出的二氧化
exhale in the room right now.		碳。[07:52]
We've installed tubes throughout the th		我們在整間講廳安裝了管道, 在地下,[08:01]
ground, because CO2 is heavier than air		
invaluable: adj.无价的; 非常贵重的 acetone:		
exhale: vt.呼气;发出;发散;使蒸发/vi.呼气;发出;发		
But they're connected to a device in the		這些管道連接後面的儀器,可以實時準確地計算一連串的二氧化碳濃度變化。[08:07]
measure, in real time, with high precisic differential concentration of CO2.	n, the continuous	连中的一种他恢辰反变化。[00.07]
	real time data	旁邊的雲圖顯示出這裡 二氧化碳濃度。[08:17]
The clouds on the sides are actually the	real-time data	方发的去迴熱小山坦性 一軒化峽底皮。[00.17]
visualization of the density of our CO2.	scroon bosquiso	 你可能見到螢幕上有一小塊紅色,因為它顯示有顏
You might still see a patch of red on the we're showing increases with larger cold		色的雲團增多,紅色的區域增多。[08:25]
colored areas of red.	red clouds, larger	CH3云图相乡, 在CH3匝均相乡。[00.23]
And that's the point where a lot of us ju	mned	這正是顯示我們被嚇到的時候。[08:34]
It's our collective suspense driving a ch		是我們集體的焦慮 導致二氧化碳變化。[08:37]
dioxide.	ange in carbon	在场间来随时点感 等以一种 们恢复的。[66.37]
Alright, now, watch this with me one mo	ore time	現在再看一次這段影片。[08:43]
(Cheerful music)	ore time.	(快樂的音樂) [08:46]
(Woman laughs) PC: You knew it was co	mina.	(女人的笑聲) 你們已經知道會發生什麼事。
(Traman laagna) i ei raa kilew it was ee	9.	[08:54]
But it's a lot different when we changed	the creator's intent.	當我們改變了創作者的意圖, 差別會很大。[09:06]
Changing the music and the sound effe	cts completely alter	轉換了音樂和音效 完全改變那場景帶來的情緒影
the emotional impact of that scene.		響。[09:10]
		adj.微分的;差别的;特异的/n.微分;差别 real-time:
adj.实时的;接到指示立即执行的 visualization:	n.形象化;清楚地呈现在心	suspense: n.悬念;悬疑;焦虑;悬而不决
emotional: adj.情绪的;易激动的;感动人的		
And we can see it in our breath.		從我們的呼吸可以知道,[09:17]
Suspense, fear, joy all show up as repro	ducible, visually	焦慮、恐懼、歡樂,都顯示可重複性,視覺上可以
identifiable moments.		辨識的時刻。[09:20]
We broadcast a chemical signature of o	ur emotions.	這些化學特質傳達了我們的情緒。[09:27]
It is the end of the poker face.		撲克臉的時代將就此終結。[09:35]
Our spaces, our technology will know w		我們的空間、科技將會知道我們的情感。[09:38]
We will know more about each other th		我們將前所未有地更了解彼此。[09:42]
We get a chance to reach in and connect	t to the experience	我們有機會在情感上與社交上,交換那些身為人類
and sentiments that are fundamental to	o us as numans in our	一 基 中 7 维 行 口 於 三 微
senses, emotionally and socially.		本也传送日 烟囱油水粉叶体 [00.FF]
I believe it is the era of the empath .	-	我相信這是一個同理心的時代。[09:55]
And we are enabling the capabilities th		我們正在實現那些能力,它能夠連結我們彼此,[09:57]
partners can bring to how we connect v	vith each other and	_山 ,[03.57]
with our technology.	tochnological	如果意識到我們能用技術 達到同理心的力量, 我們
If we recognize the power of becoming		就掌有機會,用科技幫助我們跨越情感和認知的鴻
us bridge the emotional and cognitive of		溝。[10:06]
		外表上;看得见地 identifiable: adj.可辨认的;可认
明的;可证明是同一的 sentiments: 情绪/[心理]原		
enabling: adj.授权的/v.使能够;授权给(enable的		
And in that way, we get to change how		
We can enable a better future for technic	ologies like	我們能為「擴增實境」等技術 創造更美好的未來,
augmented reality to extend our own a		s擴大我們的自主權,[10:19]

at a much deeper level. Imagine a high school **counselor** being able to realize that 試想像高中的輔導老師 能注意到表面歡樂的學生 an outwardly cheery student really was having a deeply hard其實正經歷著艱難的日子。 給予這名學生支持, 藉 此得到關鍵且正向的結果。[10:27] time, where reaching out can make a **crucial**, positive 或是讓權威人士有能力分辨 一個人是有心理健康 Or **authorities**, being able to know the difference between someone having a mental health crisis and a different type of 障礙 還是具有侵略性, 並根據情況作出回應。 [10:37] aggression, and responding accordingly. Or an artist, knowing the direct impact of their work. 或者讓藝術工作者 能知曉其作品對人們的影響。 [10:47] Leo **Tolstoy** defined his perspective of art by whether what 列夫·托爾斯泰將藝術定義為 創造者透過作品 把自 己的想法傳達給觀賞者。[10:51] the creator intended was experienced by the person on the other end. Today's artists can know what we're feeling. 如今藝術工作者能知道我們的感受。[10:59] augmented: adj.增广的;增音的;扩张的 counselor: n.顾问;法律顾问;参事(等于counsellor) outwardly: adv.表面上;向 外;外观上地 cheery: adj.愉快的,活泼的 crucial: adj.重要的;决定性的;定局的;决断的 authorities: n.当局,官方 (authority的复数) Tolstoy: n.托尔斯泰(俄国小说家) But regardless of whether it's art or human connection, 但無論是藝術或人際的連結, 當今科技將會知道,能 夠知道 我們不為人知的經歷。 這代表我們之間會 today's technologies will know and can know what we're 更接近、更真誠。[11:02] experiencing on the other side, and this means we can be closer and more authentic. But I realize a lot of us have a really hard time with the idea 但我明白有很多人抗拒 分享與自身相關數據的做 of sharing our data, and especially the idea that people know法, 特別是別人能洞悉 我們不想與之分享的想法。 [11:14] things about us that we didn't actively choose to share. Anytime we talk to someone, look at someone or choose not 無論何時當我們和人交談、看著別人、或不看時, 數據已被交換並傳遞出去。 人們利用這些數據了 to look, data is **exchanged**, given away, that people use to 解我們來藉此做了和我們相關的決定。[11:28] learn, make decisions about their lives and about ours. 我不是想創造一個 内心生活要被剖開的世界——把 I'm not looking to create a world where our inner lives are ripped open and our personal data and our privacy given 我們的私人數據和隱私 給我們不想給的人看。 [11:45] away to people and entities where we don't want to see it go. But I am looking to create a world where we can care about 我想創造一個世界 可以讓我們更有效地關心彼 此。 當有人需要被關心時, 我們可以獲得更多資 each other more effectively, we can know more about when 訊。[11:54] someone is feeling something that we ought to pay attention to. regardless of: 不顾,不管 on the other side: 另一面;在另一边 authentic: adj.真正的,真实的;可信的 exchanged: adj. 交换的/v.交换(exchange的过去式) **privacy:** n.隐私;秘密;隐居;隐居处 **entities:** n.实体;存在(entity的复数形式);字符实 体 pay attention to: 注意;重视 科技讓我們有更豐富的經驗。[12:06] And we can have richer experiences from our technology. 任何科技都可用來行善或犯罪。[12:10] Any technology can be used for good or bad. 參與的透明度和有效的規範, 這兩項要素能幫助科 **Transparency** to engagement and effective regulation are 技建立信任。[12:13] absolutely critical to building the trust for any of this. But the benefits that "empathetic technology" can bring to 同理心技術帶給生活的好處, 值得讓我們解決令人 our lives are worth solving the problems that make us 不安的問題。[12:19] uncomfortable. And if we don't, there are too many opportunities and 如果我們不解決的話,會有太多的機會和感受 被我 們忽略。[12:29] feelings we're going to be missing out on. 謝謝! [12:34] Thank you. (Applause) (掌聲) [12:36]

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Transparency: n.透明,透明度;幻灯片;有图案的玻璃 empathetic: adj.移情作用的;同感的(等于empathic)