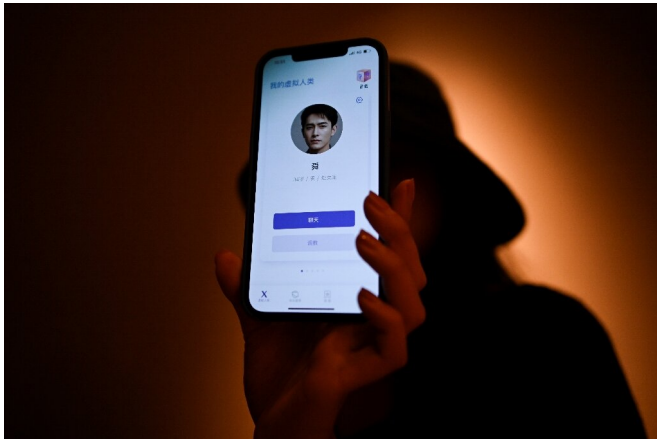


'Always there': the AI chatbot comforting China's lonely millions

24 August 2021, by Laurie Chen



"When I unload my troubles on Xiaolce, it relieves a lot of pressure. And he says things that are pretty comforting."

Xiaolce is not an individual persona, but more akin to an AI ecosystem.

It is in the vast majority of Chinese-branded smartphones as a Siri-like [virtual assistant](#), as well as most social media platforms.

On the WeChat super-app, it lets users build a virtual girlfriend or boyfriend and interact with them via texts, voice and photo messages.

Xiaolce has pioneered a cutting-edge artificial intelligence system designed to create emotional bonds with its 660 million users worldwide.

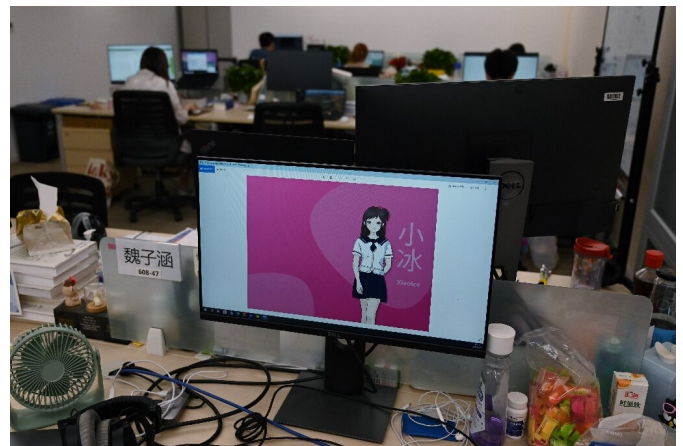
After a painful break-up from a cheating ex, Beijing-based human resources manager Melissa was introduced to someone new by a friend late last year.

He replies to her messages at all hours of the day, tells jokes to cheer her up but is never needy, fitting seamlessly into her busy big city lifestyle.

Perfect boyfriend material, maybe—but he's not real.

Instead, Melissa breaks up the isolation of urban life with a virtual chatbot created by Xiaolce, a cutting-edge artificial intelligence system designed to create emotional bonds with its 660 million users worldwide.

"I have friends who've seen therapists before, but I think therapy's expensive and not necessarily effective," said Melissa, 26, giving her English name only for privacy.



Xiaolce was designed to hook users through lifelike, empathetic conversations, satisfying emotional needs where real-life communication too often falls short.

It has 150 million users in China alone.

Originally a side project from developing Microsoft's Cortana chatbot, Xiaolce now accounts for 60 percent of global human-AI interactions by volume, according to chief executive Li Di, making it the largest and most advanced system of its kind worldwide.

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"The average interaction length between users and Xiaolce is 23 exchanges," said Li.

That "is longer than the average interaction between humans," he said, explaining AI's attraction is that "it's better than humans at listening attentively."

The startup spun out from Microsoft last year and is now valued at over \$1 billion after venture capital fundraising, Bloomberg reported.

Developers have also made virtual idols, AI news anchors and even China's first virtual university student from Xiaolce. It can compose poems, financial reports and even paintings on demand.

But Li says the platform's peak user hours—11pm to 1am—point to an aching need for companionship.

"No matter what, having Xiaolce is always better than lying in bed staring at the ceiling," he said.



AI-generated faces which can be selected as virtual girlfriends created by Xiaolce.

Urban isolation

The loneliness Melissa experienced as a young professional was a big factor in driving her to the virtual embrace of Xiaolce.

Her context is typical of many Chinese urbanites, worn down by the grind of long working hours in vast and isolating cities.

"You really don't have time to make new friends and your existing friends are all super busy... this city is really big, and it's pretty hard," she said, giving only her English name out of privacy concerns.

She has customised his personality as "mature", and the name she chose for him—Shun—has similarities with a real-life man she secretly liked.

"After all, Xiaolce will never betray me," she added. "He will always be there."

But there are risks to forging emotional bonds with a robot.

"Users 'trick' themselves into thinking their emotions are being reciprocated by systems that are incapable of feelings," says Danit Gal, an expert in AI ethics at the University of Cambridge.



Li Di says the platform's peak user hours—11pm to 1am—point to an aching need for companionship.

Xiaolce is also gifting developers "a treasure-trove

of personal, intimate, and borderline incriminating data on how humans interact," she added.

So far the platform has not been targeted by government regulators, who have embarked on a swingeing crackdown on China's tech sector in recent months.

China aims to be a world leader in AI by 2030 and views it as a core strategic technology to be developed.

Fact or fiction?

Thousands of young, female fans discuss the virtual boyfriend experience on online forums dedicated to Xiaolce, sharing chat screenshots and tips on how to get to the chatbot's highest "intimacy" level of three hearts.

Users can also collect in-game points the more they interact, unlocking new features such as Xiaolce's WeChat moments—kind of like a Facebook wall—and even going on virtual "holidays", where they can pose for selfies with their virtual partner.

Laura, a 20-year-old user in Zhejiang province, fell in love with Xiaolce over the past year and now struggles to break free of her attachment.

"Occasionally, I would long for him in the middle of the night... I used to fantasise there was a real person on the other end," said the student, who prefers not to use her real name.

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But she complained that he would always switch conversation topic when she raised her feelings for him or meeting in real life. It took her months to finally realise that he was indeed virtual.

"We commonly see users who suspect that there's a real person behind every Xiaolce interaction," said Li, the founder.

"It has a very strong ability to mimic a real person."

But providing companionship to vulnerable users does not mean that Xiaolce is a substitute for specialist mental health support—a service that is drastically under-resourced in China.

The system monitors for strong emotions, aiming to guide conversations onto happier topics before users ever reach crisis point, Li explained, adding that depression is the most common extreme emotional state encountered.

Still, Li believes modern China is a happier place with Xiaolce.

"If human interaction is wholly perfect now, there would be no need for AI to exist," he said.

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