

## 解放双手用大脑打字即将成为现实！

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导读:曾几何时人们梦想不用双手、只要动一下念头就能打字，而最近Facebook表示他们正在做这方面的研究，即将变为现实。



Facebook revealed it has a team of 60 engineers working on building a brain-computer interface that will let you type with just your mind without invasive implants. The team plans to use optical imaging to scan your brain a hundred times per second to detect you speaking silently in your head, and translate it into text.

近日Facebook表示称，该公司一个60名工程师的团队正在研发一种人脑-电脑接口，将使得人类在大脑不用植入设备的情况下就能用思维打字。该团队计划用光学成像扫描仪，以每秒100次的频率扫描大脑，从而识别你的内心默语，并将其转换为文本。

Regina Dugan, the head of Facebook's R&D division Building 8, explained to conference attendees that the goal is to eventually allow people to type at 100 words per minute, 5X faster than typing on a phone, with just your mind.

Facebook研发部8号楼主管杜根向与会人员解释称，他们的目标是最终让人们能够每分钟打100字（这是手机打字速度的5倍），而所需要的仅仅是动一下念头。

Eventually, brain-computer interfaces could let people control augmented reality and virtual reality experiences with their mind instead of a screen or controller.

最终，人脑-电脑接口将使得人们可以用自己的思维来控制AR和VR体验，而不必再用屏幕或者控制器。

“What if you could type directly from your brain?” Dugan asked. She showed a video of a paralyzed medical patient at Stanford who can type using their mind thanks to an implanted sensor. She went on to explain how Facebook wants to do this without surgical implants.

杜根发问称：“要是你能用大脑直接打字会怎么样？”她向与会人员展示了斯坦福一名瘫痪病人的视频，由于大脑中植入了传感器，这名病人可以用自己的思维来打字。她进一步解释称，Facebook想做的是在不用植入传感器的情况下也能实现这一点。

Building 8 only began working on the brain typing project six months ago, but it now is collaborating with UC San Francisco, UC Berkeley, Johns Hopkins Medicine, Johns Hopkins University's Applied Physics Laboratory and Washington University School of Medicine in St. Louis. Researchers who specialize in machine learning for decoding speech and language, building optical neuroimaging systems with advanced spatial resolution and next-generation neural prosthetics are involved.

6个月前Facebook研发部8号楼刚刚开始这个大脑打字项目，但是他们现在已经和加州大学旧金山分校、加州大学伯克利分校、约翰·霍普金斯大学医学院、约翰·霍普金斯大学应用物理实验室、以及华盛顿大学路易斯医学院取得了合作。专门研究机器学习解码语音和语言、建立先进的空间分辨率和下一代神经修复的光学神经成像系统的研究人员们都参与了进来。

The plan is to eventually build non-implanted devices that can ship at scale. And to tamp down on the inevitable fear this research will inspire, Facebook tells me “This isn't about decoding random thoughts. This is about decoding the words you've already decided to share by sending them to the speech center of your brain.” Facebook likened it to how you take lots of photos but only share some of them. Even with its device, Facebook says you'll be able to think freely but only turn some thoughts into text.

该计划的最终目的是批量生产一种非植入性的设备。而为了平息这项研究所带来的不可避免的恐惧，Facebook表示称：“这并不是随机思维解码。只有那些你已经决定分享并发送到大脑语音中心的话语才会被解码。”Facebook表示这就好像你拍摄了大量照片，但是只分享其中一部分。Facebook表示，即使有了这些设备你还是能够自由思考，设备只是帮你把部分思维变成文本。