

# "Brain implant lets man write using thoughts"

## GAP FILL

A man who cannot move his arms or hands has used his (1) thoughts to write on a computer screen. The man has been paralyzed from the (2) neck down for almost a decade. Scientists from Stanford University in the USA implanted two (3) tiny sensors into the man's brain. The scientists gave this (4) method two names - "brain-to-text" and "mindwriting". The man wants to (5) remain anonymous, so scientists have called him T5. He became paralyzed after suffering a spinal cord (6) injury ten years ago. The implants have allowed T5 to use his mind to write. He can write 90 (7) characters (about 18 words) per minute. This is five words slower than the average person writing a text (8) message on a smartphone.

The mindwriting system is very (9) simple, but it involved a lot of advanced technology. Scientists asked T5 to (10) imagine holding a pen and then writing a sentence on a paper. The sensors in T5's brain (11) detected the activity in his brain as he imagined writing. A computer decoded (12) this activity into text on a screen. The scientists used a special (13) algorithm to do this. Professor Jaimie Henderson, a Stanford University researcher, hopes this research could help (14) millions of paralyzed people, and those who have lost the ability to speak, to write again. He said: "The (15) goal is to restore their ability to communicate by text." This technology may one day help anyone to write at the (16) speed of thought.

*method*  
*injury*  
*thoughts*  
*message*  
*tiny*  
*characters*  
*neck*  
*remain*

*this*  
*millions*  
*simple*  
*speed*  
*detected*  
*goal*  
*imagine*  
*algorithm*

Answers:

1. Where did she go?
2. What did you do?
3. He worked in a bank.
4. You didn't call me.
5. Did you wear your red dress?
6. He didn't read that book.
7. Did you go?
8. Did she study last night?
9. Did we arrive last?
10. Who did you meet?
11. Did they come to the party?
12. She didn't meet him.
13. Did she go?
14. You met a friend.
15. Which did you like?
16. I didn't forget your book.
17. What did he do at the weekend?
18. She didn't like chocolate.
19. What did you buy yesterday?
20. Did you have a good holiday?

Answers:

1. Had you gone there before we went together?
2. Had she seen the film already?
3. Why had he forgotten about the meeting?
4. Had it been cold all week?
5. Had I read the book before the class?
6. When she arrived, had we eaten already?
7. Where had you been when I saw you?
8. Had they travelled by bullet train before?
9. Had John met Lucy before they went on holiday together?
10. Had you done your homework already?
11. Where had she worked ?
12. Had I paid the bill before we left?
13. Had we visited my parents already that winter?
14. When you called, had they eaten dinner?
15. How had he managed to fix the cooker?
16. Had my sister been sick for a long time?
17. How much had she studied before the exam?
18. What had you cooked for dinner that night?
19. When had they arrived?
20. How many coffees had she drunk before the interview?

Answers:

1. to be
2. to go
3. to be
4. living
5. smoking
6. arriving
7. negotiating
8. stealing
9. to be
10. to be
11. seeing
12. to rain
13. meeting
14. going
15. to go
16. being
17. to come
18. to get
19. painting
20. to meet
- 21.