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## See What Other <br> Students are

Saying

## The Measured Life

Do you know how much REM sleep you got last night? New types of devices that monitor activity, sleep, diet, and even mood could make us healthier and more productive.

By EMILY SINGER
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Answer Last Question Asked
－measured＿life．pdf（page 3 of 8 ） Jule Winer（right），product director at Basis，
uses the startup＇s device（above）to track uses the startup＇s device（above）to track heart rate，body temperature，movement， and sweat levels．The data is analyzed to determine activity levels and calories burned throughout the day．Winer，who is trained as a nurse，hopes this daily feedback will inspire people to be more active．

cycles．The device consists of a soft head－ band with a fabric sensor that wirelessly transmits EEG data to a bedside moni－ tor．A programmable alarm clock wakes the wearer at the optimal phase of sleep． And each night＇s data can be uploaded to a computer，where users can study how their sleep is affected by environmental factors such as weather，light，and more． Sanjiv Shah，a longtime insomniac
who participates in the Boston group，
believes that wearing orange－tinted glasses for several hours before bed makes it easier for him to fall asleep．（The theory is that the orange tint blocks blue light，which has been shown in both human and animal studies to influence circadian rhythms．）To quantify the effects，he used not only the Zeo but also a thumb－size device called the Fitbit，which incorporates an accelerometer that mea－ sures movement，and a camera trained on his bed to record his sleep for a month．His results：without the glasses，he took an aver－ age of 28 minutes to fall asleep，but with them he took only four．
The experiment has an obvious flaw：Shah knows when he is wearing the glasses，and he believes they work，so the placebo effect could be responsible for their success．Matt Bianchi，a neurologist at Massachusetts General Hospital who spoke at the get－together， says no large－scale studies have shown that orange glasses improve sleep．（By the end of the evening，plans for a group experiment to test the technique were under way．）But self－trackers say the idea
of reproducing the results in scientific tests misses the point．The glasses clearly work for Shah．And an $\$ 8$ pair of plastic glasses is certainly preferable to sleep drugs as a way to gain that benefit．
As Gary Wolf，a journalist and cofounder of the Quantified Self， puts it，＂It＇s a trial that begins with one very important person： yourself．＂
self－hacking heaven
Over Memorial Day weekend，approximately 400 hackers，pro grammers，designers，engineers，and health－care professionals gathered at the Computer History Museum，in the tech mecca of Mountain View，California，for the first annual Quantified Self oilmerence．Altencees snowecoin utness momtors，apps to gatner and display data，and even a set of sticker sensors with embedded accelerometers to detect movement，which are designed to be stuck on toothbrushes，water bottles，or a dog＇s leash．

Mention this in class， May spark discussion

## Logout <br> Mighlights Others Annotations

Answer Last Question Asked
＊）measured life．pdf（page 3 of 8 ）

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Instructor：What does this paper indicate that must be available to make self－ tracking widespread？

## Possible Answers：

1．Cheap，dependable，and wearable sensors（41）
2．Inexpensive，lower－power wireless transmitters（41）
3．Networks to aggregate and share data（43）
4．Positive results，for example，someone discovering＂standing on one leg for eight minutes a day helped them sleep＂（45）
5．Integration to social network and gaming（45）
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conference．Attendees showed off fitness monitors，apps to gather and display data，and even a set of sticker sensors with embedded accelerometers to detect movement，which are designed to be stuck on toothbrushes，water bottles，or a dog＇s leash．

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## Evaluate Data



Send to: All Top 10 Students Top 50 Students

## Choose one

## Only Students who have read "Measured Life" article

Re: $\square$

Message:

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Student Rank

- All
- Top 10\%
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School

- All
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- CSUN
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Assigned Course

- All
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- $\mathbf{\$ 1 0 - \$ 2 5}$
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Questions?

