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## Scientists figure out why Mona Lisa smiles

**By Toby Sterling in Amsterdam**

Friday, 16 December , 2005, 10:32

The mysterious half-smile that has intrigued viewers of the Mona Lisa for centuries isn't really that difficult to interpret, Dutch researchers said on Thursday.

She was smiling because she was happy—83 per cent happy, to be exact, according to scientists from the University of Amsterdam.

In what they viewed as a fun demonstration of technology rather than a serious experiment, the researchers scanned a reproduction of Leonardo da Vinci's masterpiece and subjected it to cutting-edge "emotion recognition" software, developed in collaboration with the University of Illinois.

The result showed the painting's famous subject was 83 per cent happy, 9 per cent disgusted, 6 per cent fearful and 2 per cent angry. She was less than 1 per cent neutral, and not at all surprised.

Leonardo began work on the painting in 1503, and it now hangs in the Louvre in Paris.

The work, also known as 'La Gioconda', is believed to have portrayed the wife of Francesco del Giocondo. The title is a play on her husband's name, and also means "the jolly lady" in Italian.

Harro Stokman, a professor at the University of Amsterdam involved in the experiment, said the researchers knew the results would be unscientific—the software isn't designed to register subtle emotions. So it couldn't detect the hint of sexual suggestion or disdain many have read into Mona Lisa's eyes.

In addition, the technology is designed for use with modern digital films and images, and subjects first need to be scanned in a neutral emotionless state to accurately detect their current emotion.

Lead researcher Nicu Sebe took the challenge as seriously as he could, using the faces of 10 women of Mediterranean ancestry to create a composite image of a neutral expression. He then compared that to the face in the painting, scoring it on the basis of six emotions: happiness, surprise, anger, disgust, fear and sadness.

"Basically, it's like casting a spider web over the face to break it down into tiny segments," Stokman said. "Then you look for minute differences in the flare of the nostril or depth of the wrinkles around the eyes."

Stokman said with a reading of 83 per cent, it's clear happiness was the woman's main emotion.

Biometrics experts not involved with the experiment said the results were interesting even


  
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if they aren't the last word on the Mona Lisa.

"Facial recognition technology is advancing rapidly, but emotional recognition is really still in its infancy," said Larry Hornak, director of the Center for Identification Technology Research at West Virginia University.

"It sounds like they did try to use a data set, even if it was small, and that's typical of work in an area like this that's relatively new. It's an interesting result," he said.

Stokman said he knew the University of Amsterdam's effort wouldn't prove or disprove controversial theories about the painting. One is that it was actually a self-portrait of Leonardo himself as a woman.

"But who knows, in 30, 40, 50 years, maybe they'll be able to tell what was on her mind," Stokman said.

Hornak agreed the idea was entertaining.

"It's always fun to apply technology to areas of public interest, and sometimes you can come up with results that are very illuminating," he said.

Jim Wayman, a biometrics researcher at San Jose State University agreed.

"It's hocus pocus, not serious science," Wayman said. "But it's good for a laugh, and it doesn't hurt anybody."

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