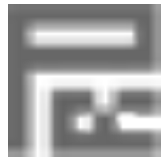


Building *Personable* Machines

(Lessons from Infusing Affect in Physical Robots)

Star Simpson
Bot Summit 2016 • Victoria & Albert Museum
[@starsandrobots](#)



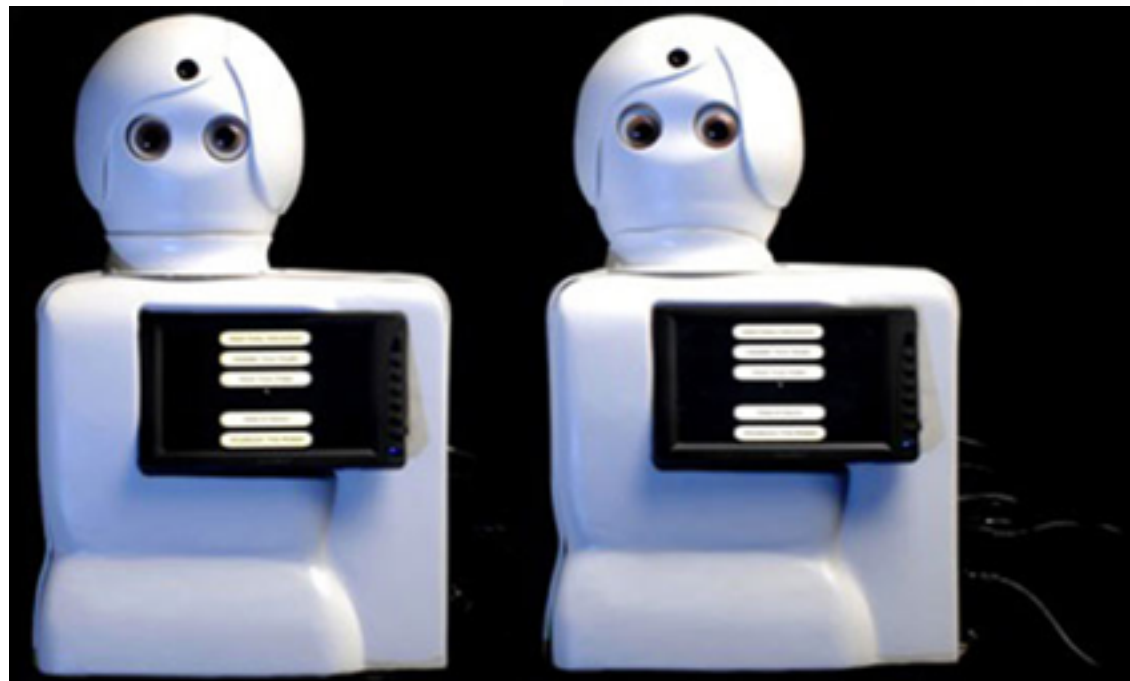
Personal Robots Group



living better with robots.

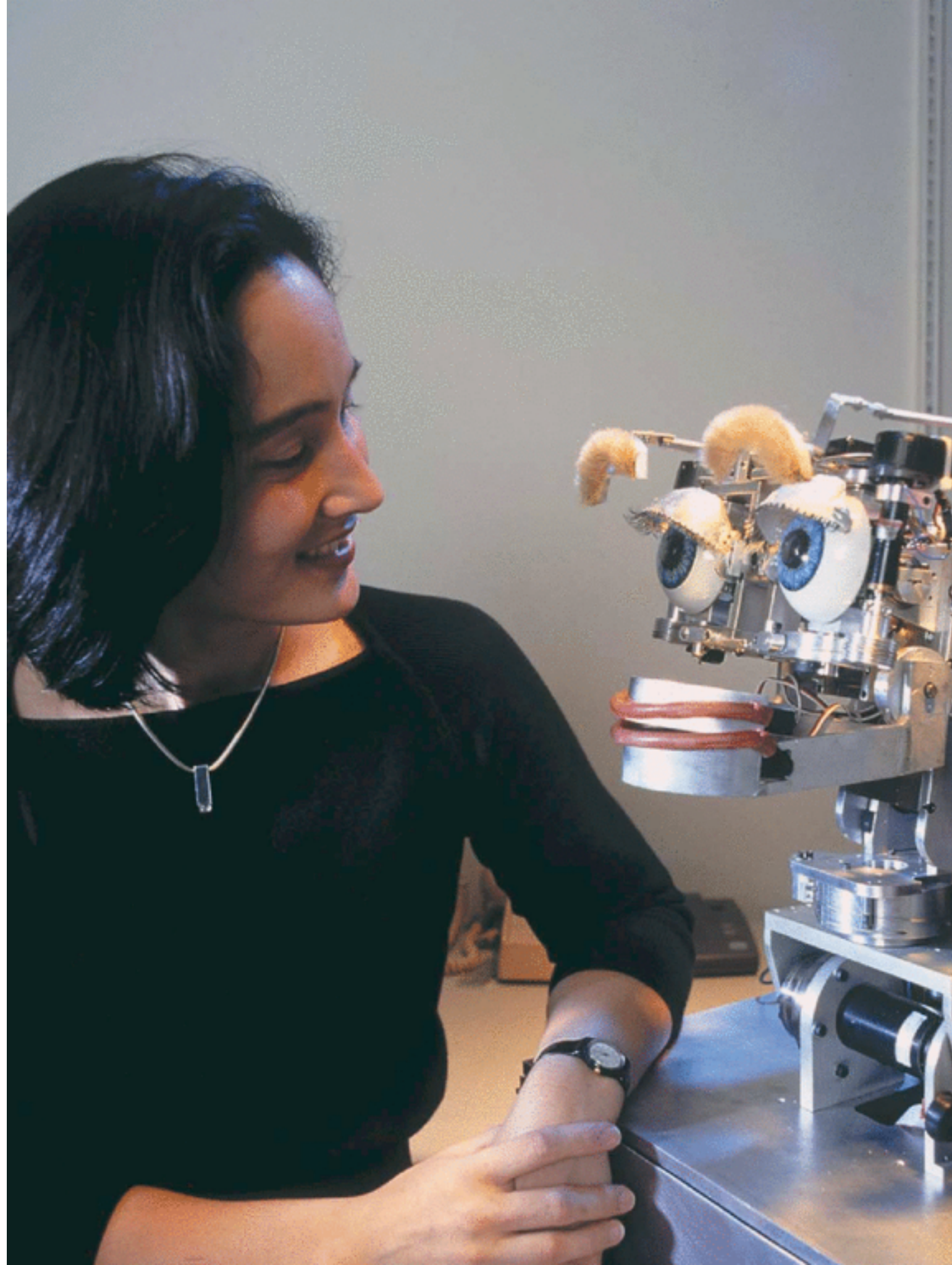


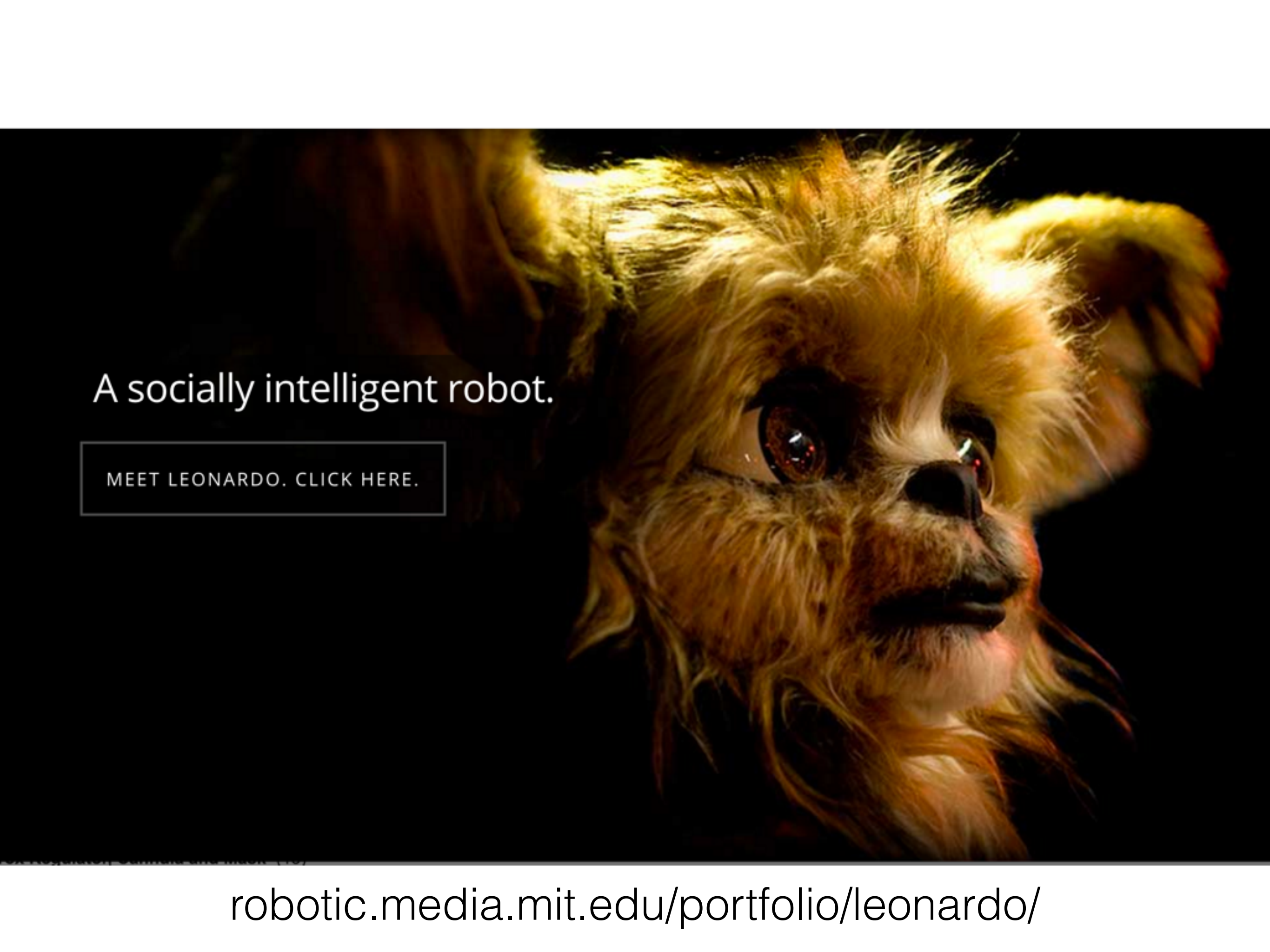
<http://robotic.media.mit.edu/portfolio/tikl/>



<http://robotic.media.mit.edu/portfolio/autom-papers/>





A close-up, low-key photograph of a robot dog named Leonardo. The dog has shaggy, light brown fur and large, expressive eyes that are glowing with a red and white light. Its head is turned slightly to the right, and its mouth is closed. The background is dark, making the dog's features stand out.

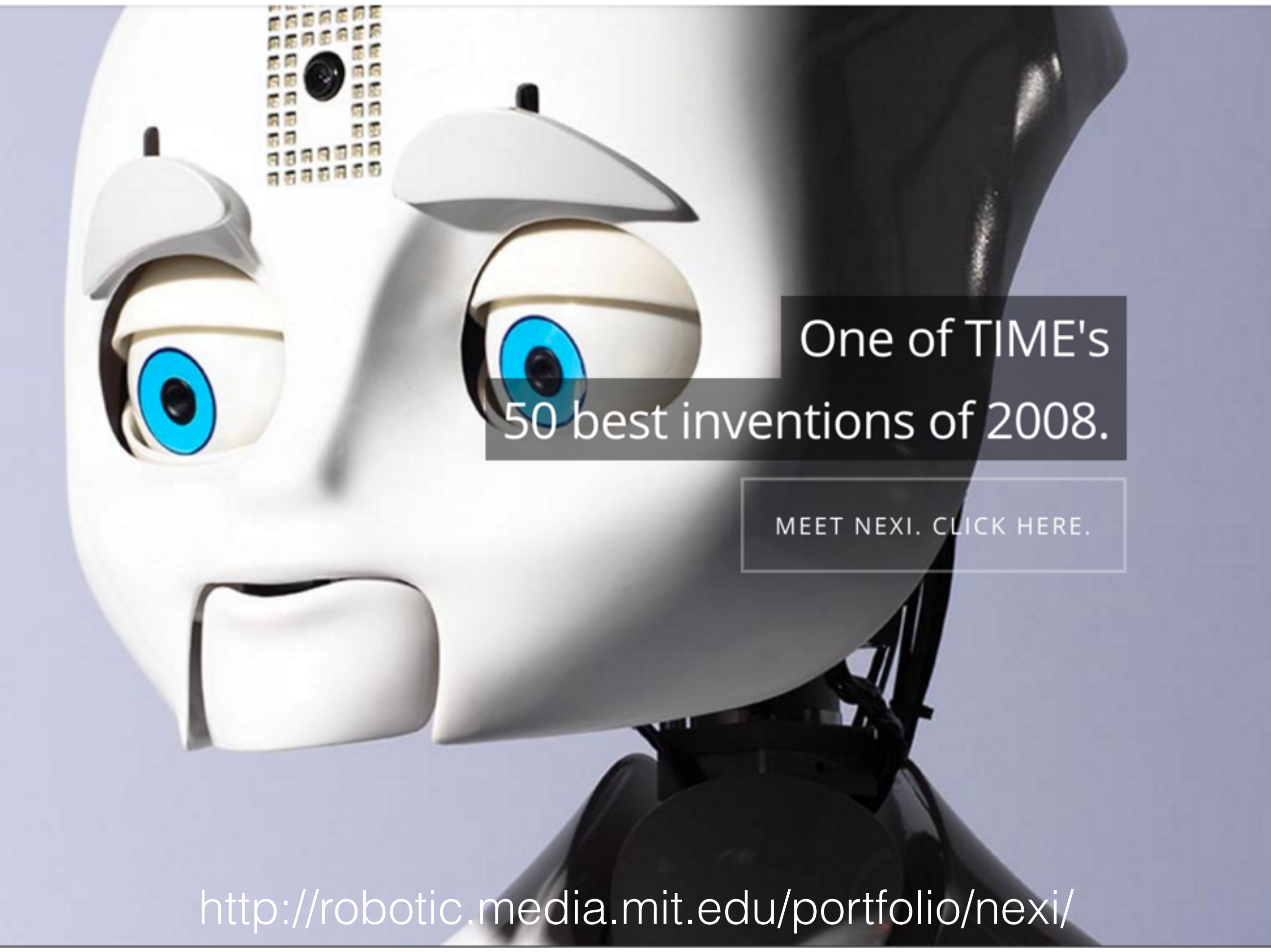
A socially intelligent robot.

MEET LEONARDO. [CLICK HERE.](#)

robotic.media.mit.edu/portfolio/leonardo/



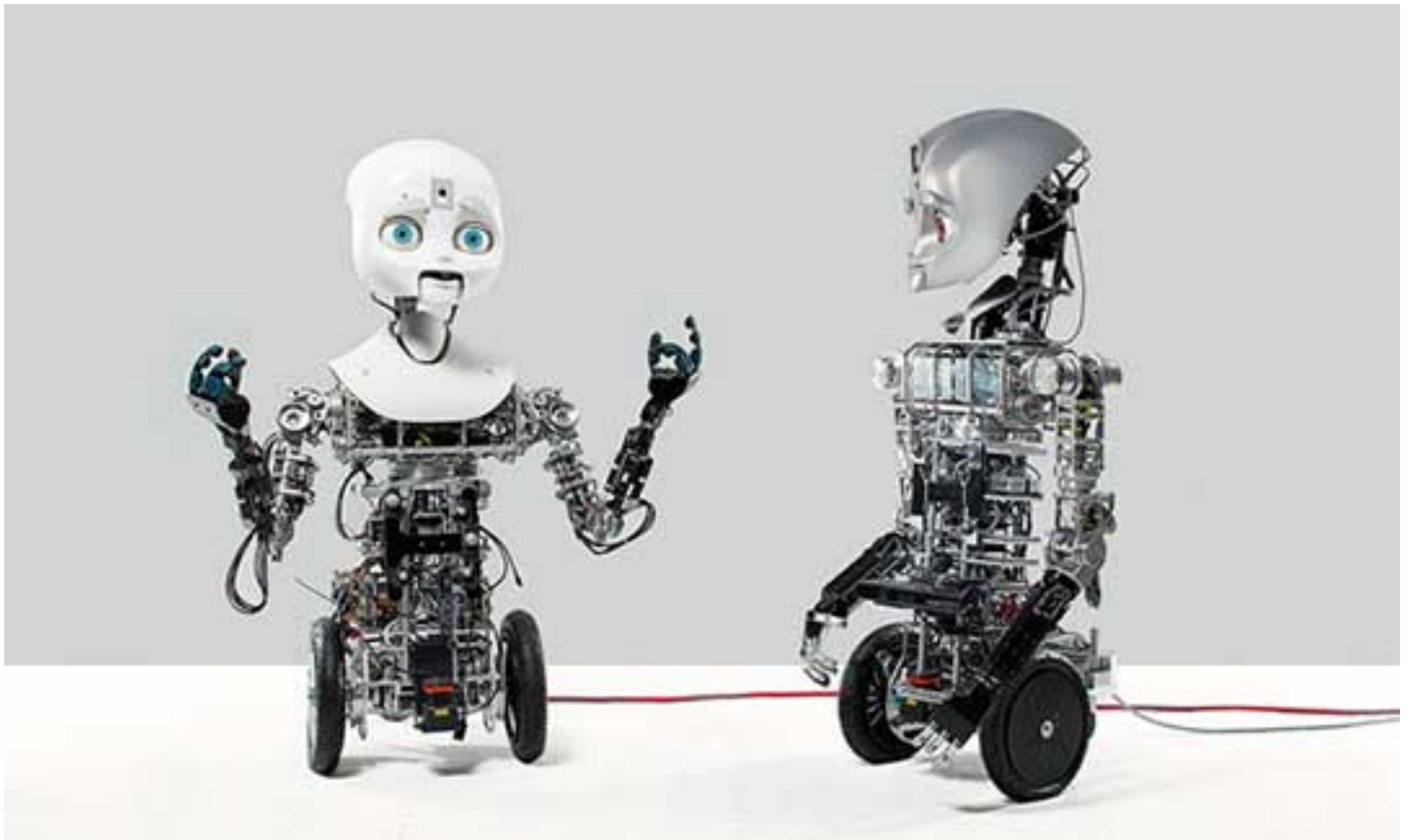
robotic.media.mit.edu/portfolio/tofu/



One of TIME's
50 best inventions of 2008.

MEET NEXI. [CLICK HERE.](#)

<http://robotic.media.mit.edu/portfolio/nexi/>





MATCHING IN-CAR VOICE WITH DRIVER STATE: IMPACT ON ATTITUDE AND DRIVING PERFORMANCE

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Summary: This study examines whether characteristics of a car voice can influence driver behavior and attitudes, and furthermore, if the driver's emotional state will influence the perception of the car voice. Participants in a 2 (driver emotion: happy or upset) x 2 (car voice emotion: energetic or subdued) experimental study, had emotion induced by video clips and then spent 20 minutes using a driving simulator. While they were driving, a voice in the car spoke 36 questions (e.g., "Have we passed the sign for Lucia yet?") and comments ("My favorite part of this drive is the lighthouse.") in either an energetic or subdued voice. Participants were invited to interact with the car voice. Matching the car voice to the drivers' emotions had enormous consequences. Drivers who interacted with voices that matched their own emotional state had less than half as many accidents on average as drivers who interacted with mismatched voices! Drivers paired with matched voices also

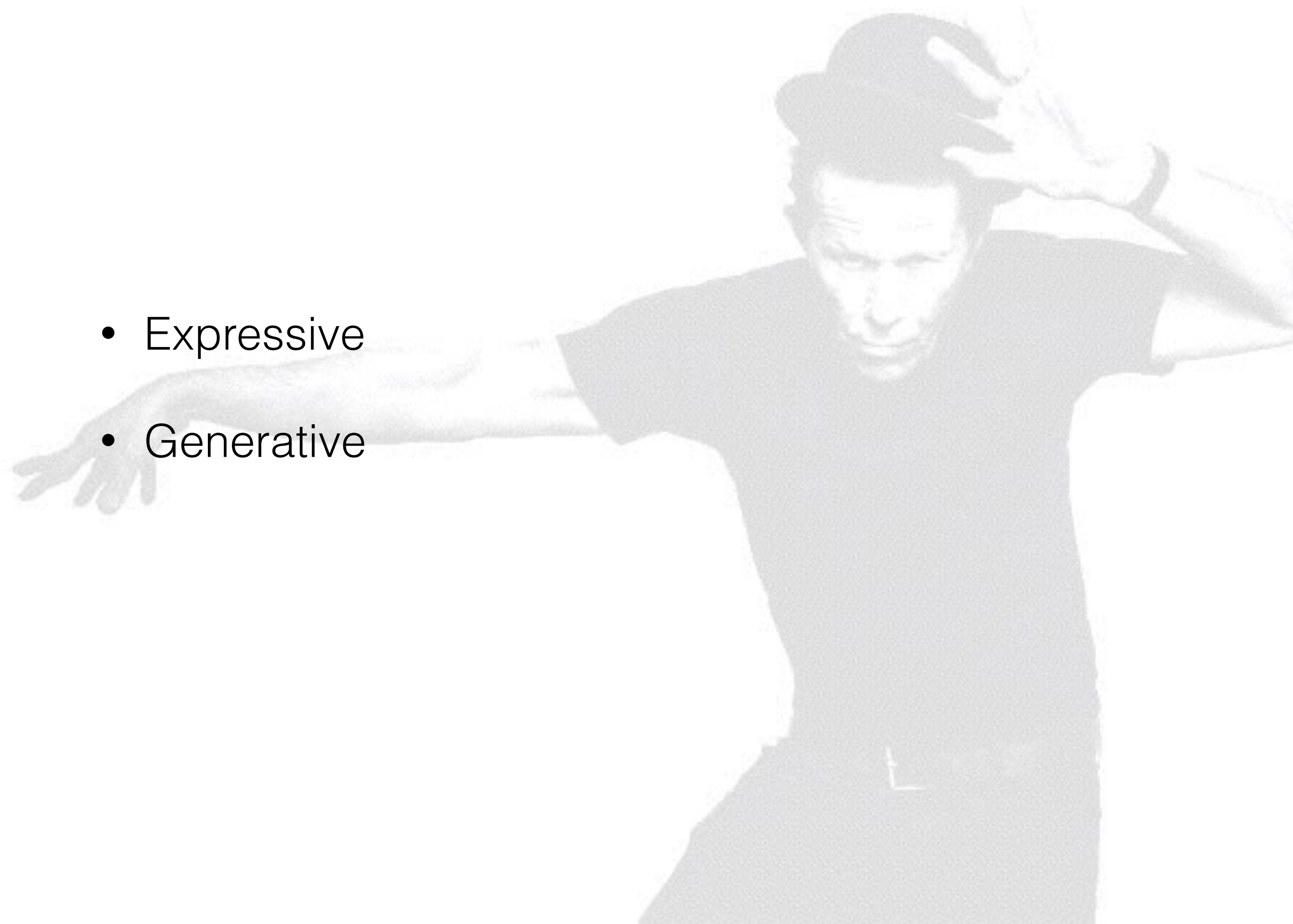




- Expressive

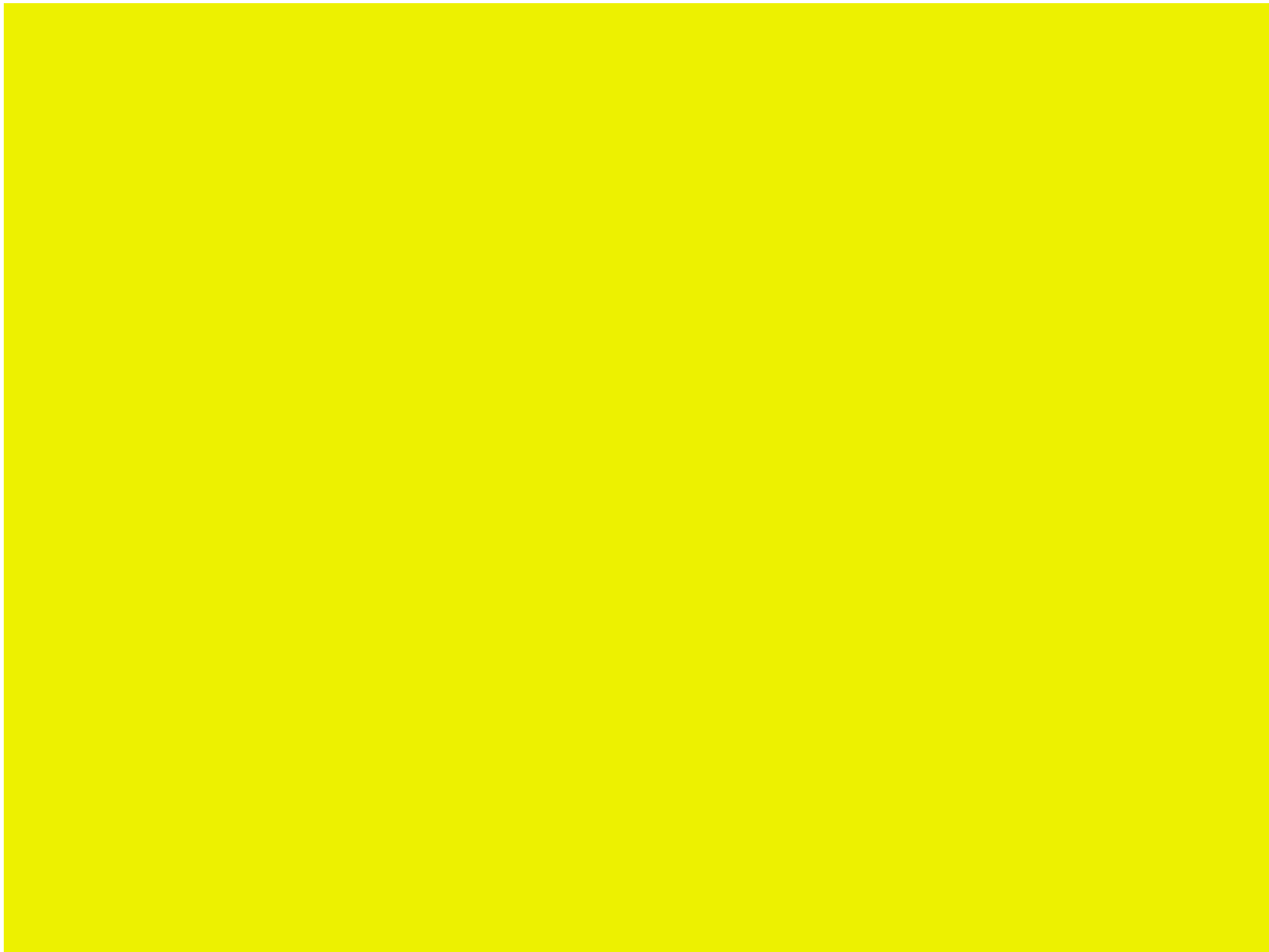


- Expressive
- Generative



- Expressive
- Generative
- Unexpected







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Thank you!
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