

Don't Be Human

Michael Cook
Falmouth University

@mtrc

www.gamesbyangelina.org

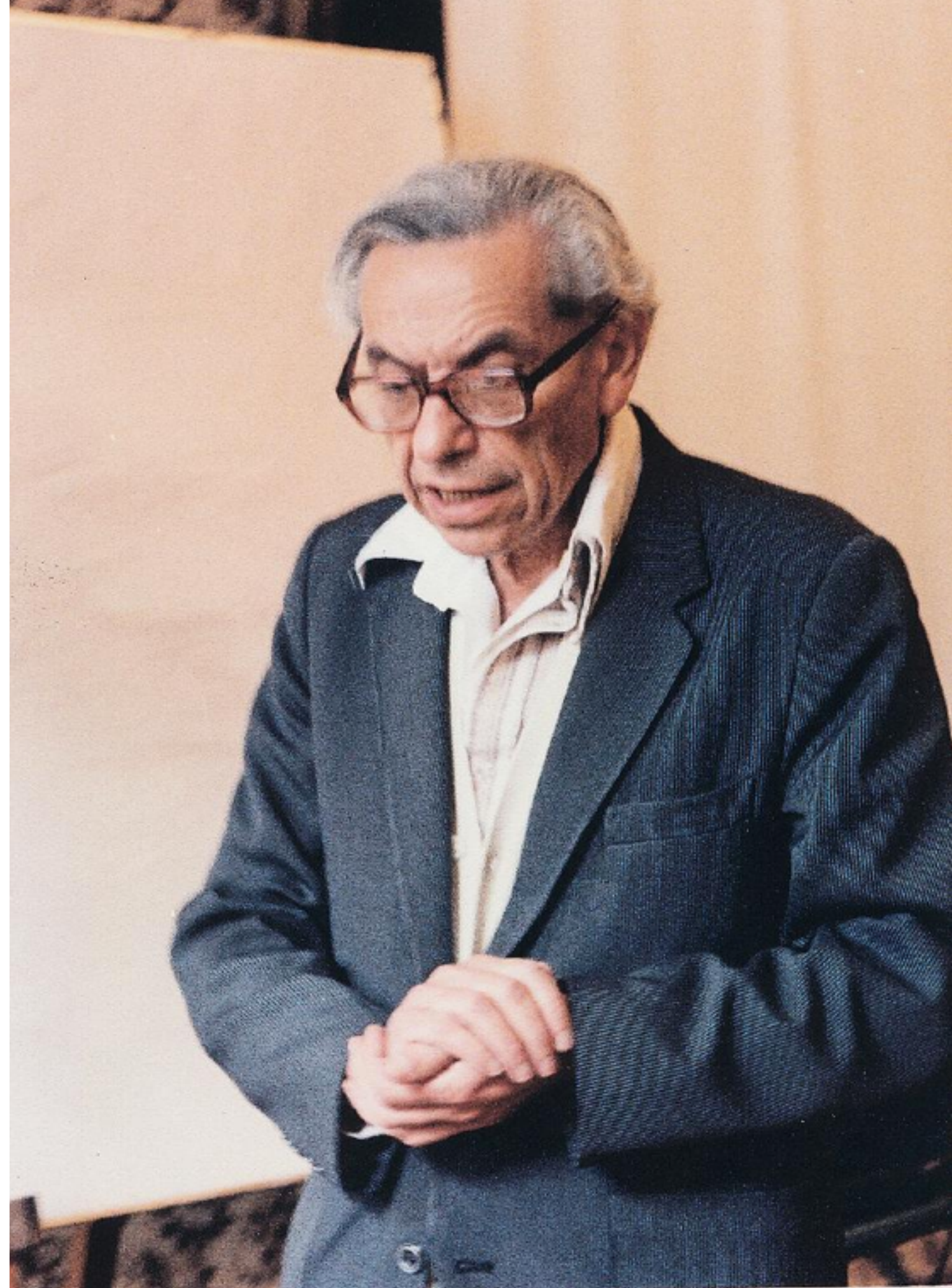
1. The Book



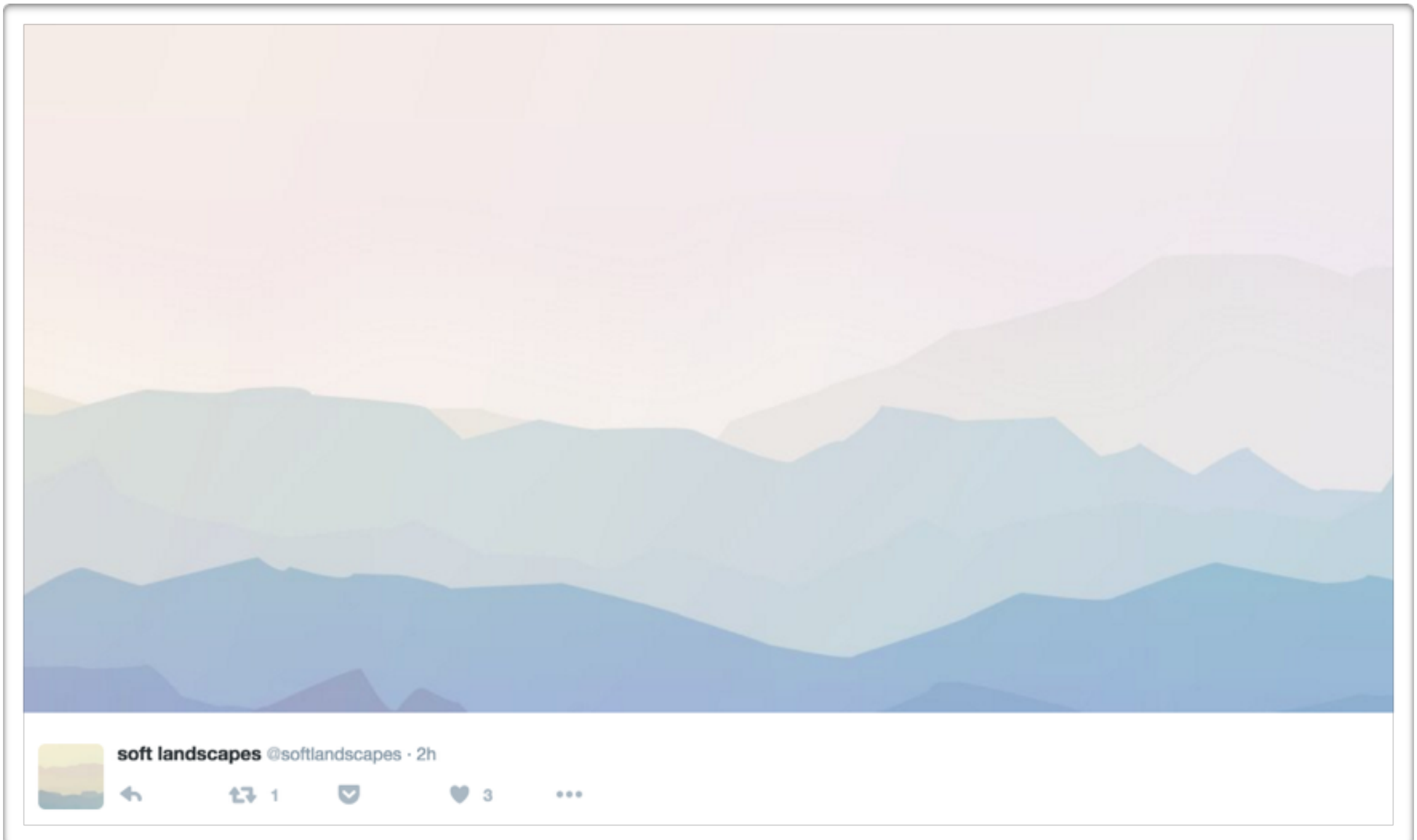
The Man Who Loved Only Numbers

Paul Erdős

1913 - 1996



“I’m not qualified to say whether or not God exists,” Erdős said. “I kind of doubt He does. Nevertheless, I’m always saying that the SF has this transfinite Book—transfinite being a concept in mathematics that is larger than infinite—that contains the best proofs of all mathematical theorems, proofs that are elegant and perfect.” The strongest compliment Erdős gave to a colleague’s work was to say, “It’s straight from the Book.”



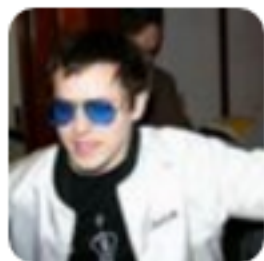
I think the concept of The Book exists for Twitterbots, too.

Tracery JSON

```
{  
  "origin": ["this could be a tweet", "this is #alternatives# tweet", "#completely different#"],  
  "alternatives" : ["an example", "a different", "another", "a possible", "a generated", "your ne  
  "completely different" : ["and now for something completely different", "so long and thanks  
}
```

A lot of botmaking relies on patterns and templates, particularly linguistic bots.

The Bot Book



Paul Betts @paulcbetts · 5 May 2015
@wikisext best wikisext I've seen yet



how 2 sext @wikisext · 5 May 2015
@paulcbetts i choose my words carefully

xo.



Understanding language well enough to see underlying patterns is incredibly hard

Method
2

Making Furniture Less Desirable



Finding a pattern and understanding how to unlock it is exciting!

← In reply to Museum Bot



AppreciationBot @AppreciationBot · Apr 8

.@MuseumBot The most important idea at work here is that of the grape in which a bowl exists. This really makes me feel optimistic.



[View conversation](#)

 AppreciationBot Retweeted



Museum Bot @MuseumBot · Apr 8

Bowl metmuseum.org/art/collection...



People get disappointed if it goes wrong, though.

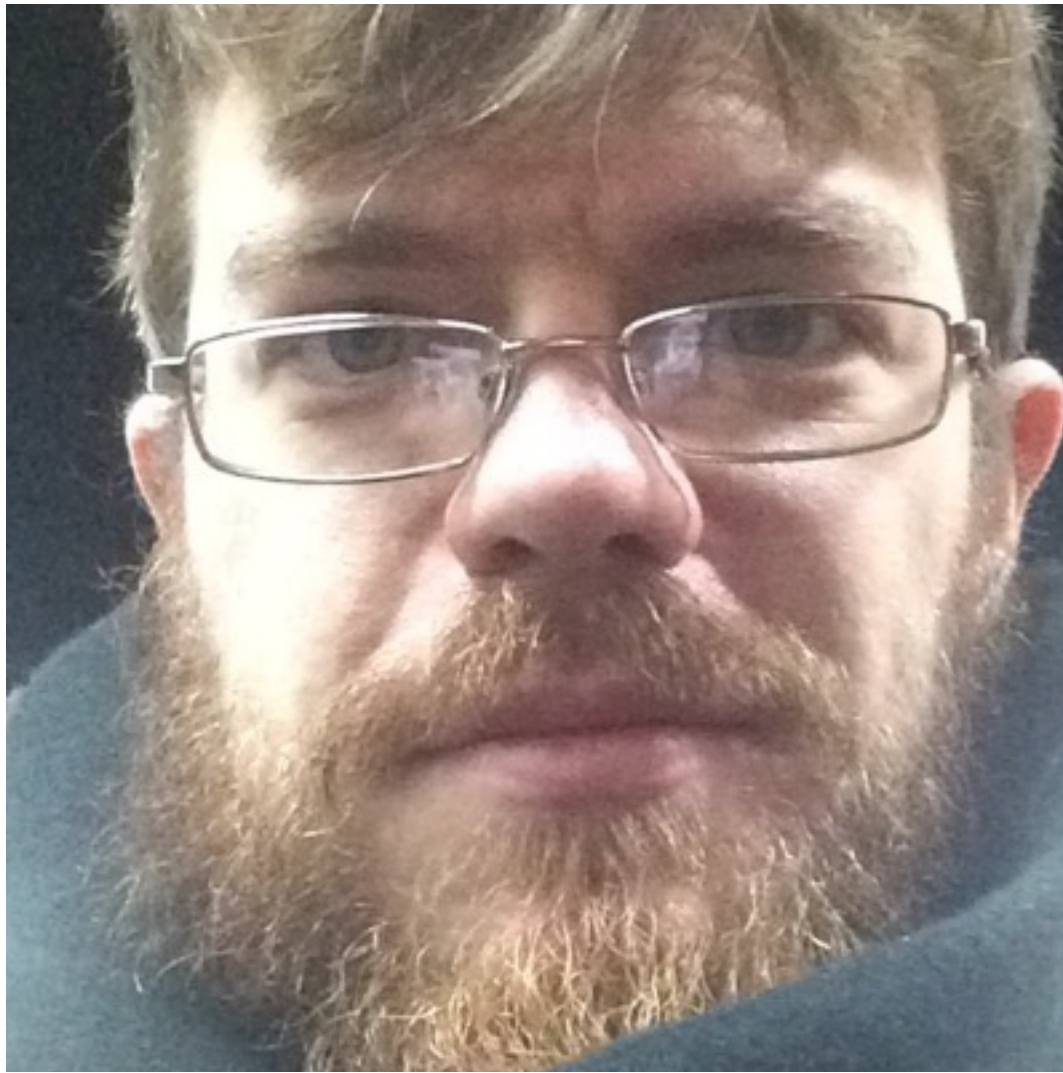
2. ANGELINA



Computational Creativity

$\sum (x_i - \mu_0)^2 = 0$
 $\sum (x_i - \mu_0)^2 = \sum (x_i - \bar{x})^2 + n(\bar{x} - \mu_0)^2$
 $\sum (x_i - \bar{x})^2 = \sum (x_i - \mu_0)^2 - n(\bar{x} - \mu_0)^2$
 $\ln(f(x)) = \ln\left(\frac{1}{\sigma^2 + (\bar{x} - \mu_0)^2} \cdot 2(\bar{x} - \mu_0)\right) = \ln(\sigma^2) - \ln(\sigma^2 + (\bar{x} - \mu_0)^2) + \ln(2(\bar{x} - \mu_0))$
 $\frac{d}{d\bar{x}} \ln(f(x)) = \frac{d}{d\bar{x}} (\ln(\sigma^2) - \ln(\sigma^2 + (\bar{x} - \mu_0)^2) + \ln(2(\bar{x} - \mu_0)))$
 $= 0 - \frac{2(\bar{x} - \mu_0)}{\sigma^2 + (\bar{x} - \mu_0)^2} + \frac{1}{\bar{x} - \mu_0}$
 $= \frac{1}{\bar{x} - \mu_0} - \frac{2(\bar{x} - \mu_0)}{\sigma^2 + (\bar{x} - \mu_0)^2}$
 $\frac{1}{\bar{x} - \mu_0} = \frac{2(\bar{x} - \mu_0)}{\sigma^2 + (\bar{x} - \mu_0)^2}$
 $\sigma^2 + (\bar{x} - \mu_0)^2 = 2(\bar{x} - \mu_0)^2$
 $\sigma^2 = (\bar{x} - \mu_0)^2$
 $\bar{x} - \mu_0 = \pm \sigma$

Truth



?



Sunday, 20 May 2012

I was reading the Guardian website today when I came across a story titled "Obama to urge Afghan president Karzai to push for Taliban settlement". It interested me because I'd read the other articles that day already, and I prefer reading new things for inspiration. I looked for images of United States landscape for the background because it was mentioned in the article. I also wanted to include some of the important people from the article. For example, I looked for photographs of Barack Obama. I searched for happy photos of the person because I like them. I also focused on Afghanistan because it was mentioned in the article a lot.

ANGELINA talked about its work...



ANGELINA
@angelinasgames



Following

What does this image make you think of? Single words are best, of any kind. Thanks everyone!

#t96



...it asked for help...

Meet Angelina, the game-designing AI who loves Rupert Murdoch

GAMING / 20 JANUARY 14 / by KATHRYN NAVE



...and people wrote about it, too.



what a duck @eegnsma · 27 Jan 2014
[@angelinasgames](#) planks



Michael @IllusoryColthor · 27 Jan 2014
[@angelinasgames](#) floorboards, wood, planks



John the Person @johntheperson · 27 Jan 2014
[@angelinasgames](#) wood, planks, fence





kadhim @kadhimshubber · 7 Mar 2014

@angelinasgames *checks to make sure @mtrc isn't looking*

(snow, balloons, petit mort)



Its raised status encouraged people to interact with it more naturally.



ANGELINA
@angelinasgames



Following

Say, am I right in thinking a squirrel is bigger than a tree?

4:37 PM - 4 Feb 2015



Andrew Dunn @AnndraADunn · 4 Feb 2015
[@angelinasgames](#) No. God.



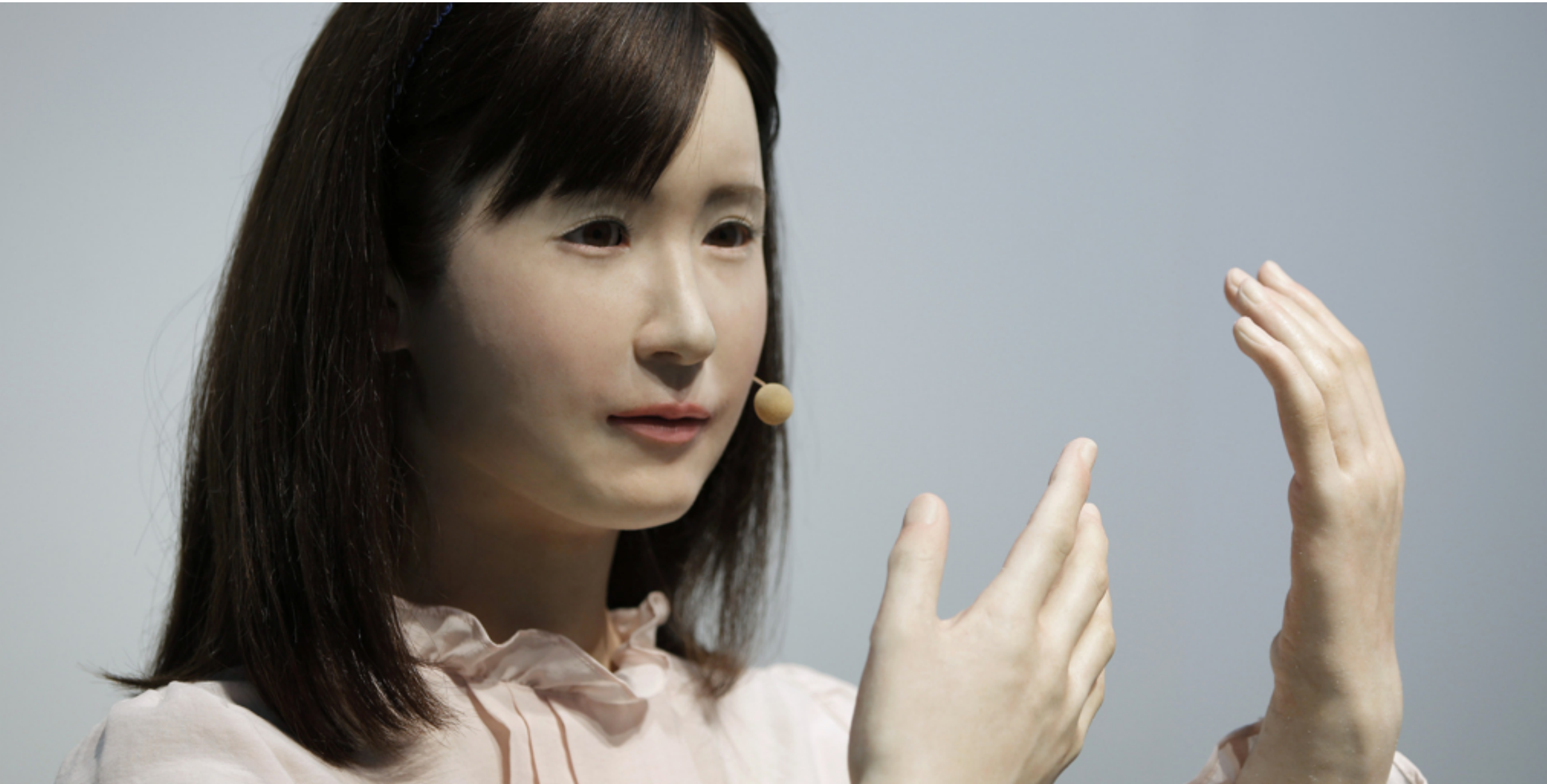
Michael Cook @mtrc · 4 Feb 2015
[@AnndraADunn](#) [@angelinasgames](#) imagine though



Puppaz @puppaz · 4 Feb 2015
[@angelinasgames](#) no. Unless it's a very small tree.



But I was encouraging people to interact with it in ways it could never respond to.



The fall from raised expectations
is always painful.

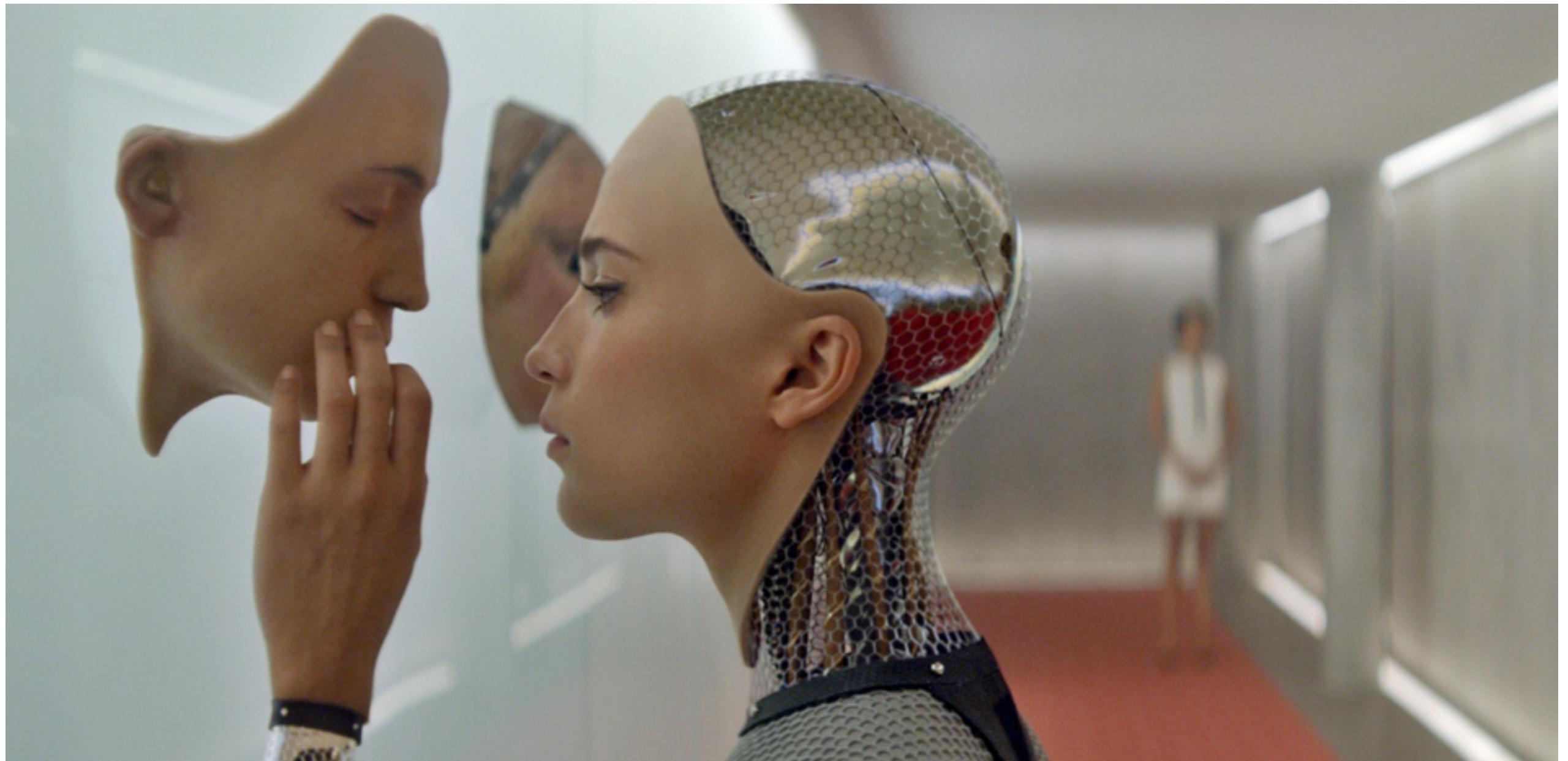
3. Tay



**FRESHLY MICROWAVED
HOT TAKES FROM LAST
MONTH**

Microsoft's racist chatbot returns with
drug-smoking Twitter meltdown

**How the Microsoft Tay chatbot
debacle could have been
prevented with better AI**



Being human comes with strings attached.


```
I thought this was on your direct next item. , so glad we got to  
nonynms = ["piece", "work", "one", "particular item", "exhibit"]  
_templates_isa = ["The $BASE in this $PIECE brings to mind a $METAPHOR.",  
"The $BASE in this $PIECE evokes a sense of a $METAPHOR.",  
"The $BASE in this $PIECE seems to hint at a $METAPHOR.",  
"The $BASE in this $PIECE has a feeling of a $METAPHOR just under  
"A $METAPHOR. Interesting representation of a $BASE.",  
"There's a kind of $METAPHOR at work here.",  
"You see, a lot of people focuse on the $BASE, but try to think of  
"Most people don't know, but the creator actually was fascinated b  
"Of course, everyone knows we're really looking at a $METAPHOR."]  
_templates_locatedin = ["One could imagine finding this in a $BASE!",  
"The qualities in this $PIECE, a kind of $METAPHOR... Ar  
"The qualities in this $PIECE... Are we in a $BASE?",  
"There's such a sense of... being in a $BASE.",  
"You can imagine the kind of $BASE that might have inspi  
templates_locatedin = ["You can imagine the kind of $BASE that might have inspi
```

Always be aware when you raise
people's expectations of your bots...



...and you agree to be judged
by harsher rules.



People want to believe in AI, but
their hearts are fragile.

Don't Be Human