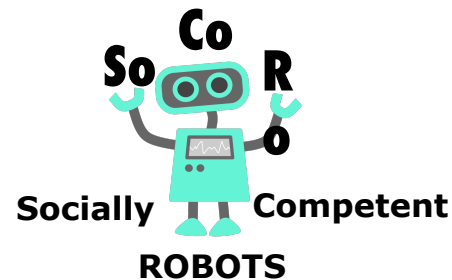


# Creating robots that care..

Ruth Aylett

Heriot-Watt University

Questions/comments? Use Twitter tag #robotfriends



The key question of Social Robotics:

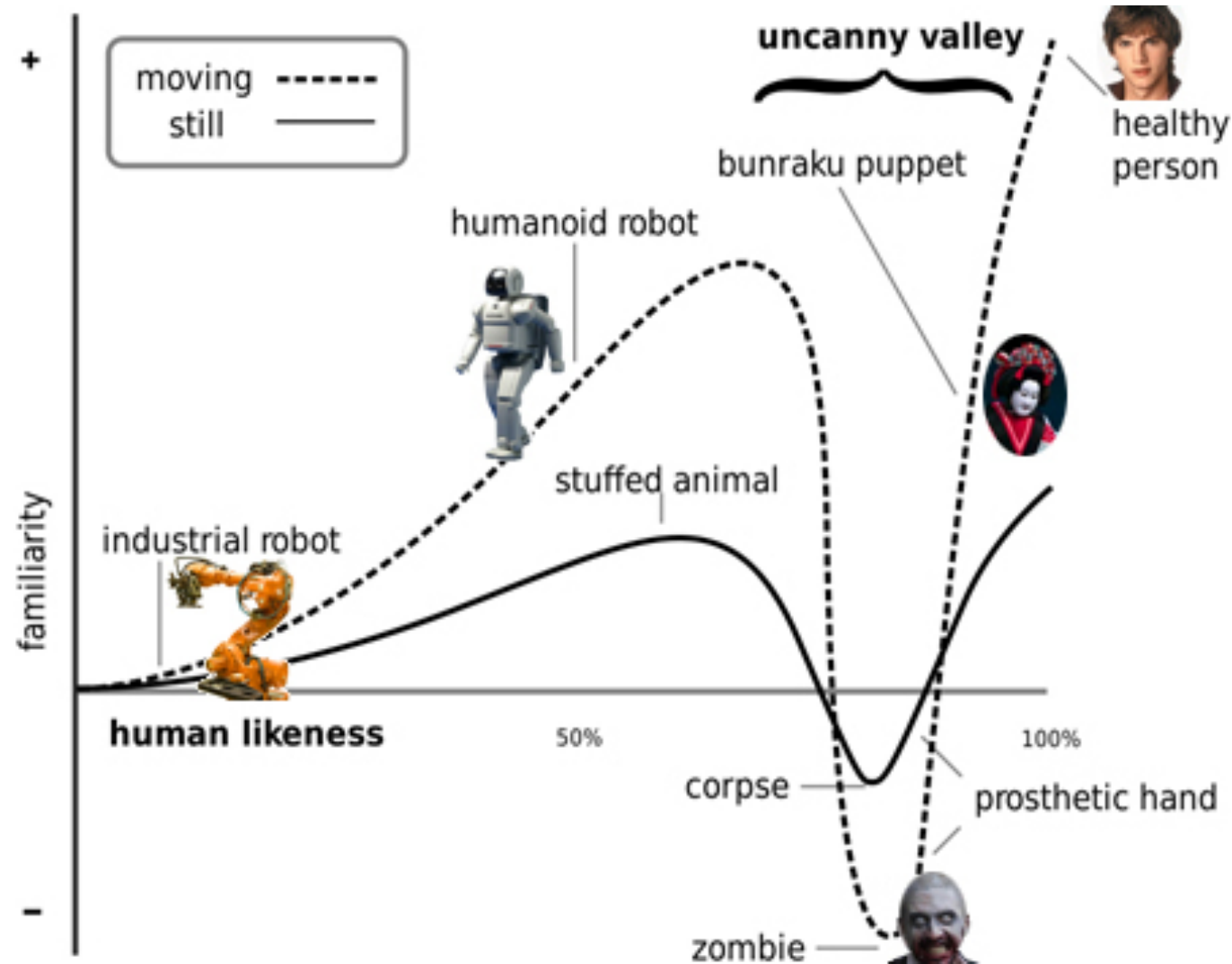
**HOW CAN ROBOTS BECOME  
PART OF ORDINARY HUMAN  
ENVIRONMENTS?**

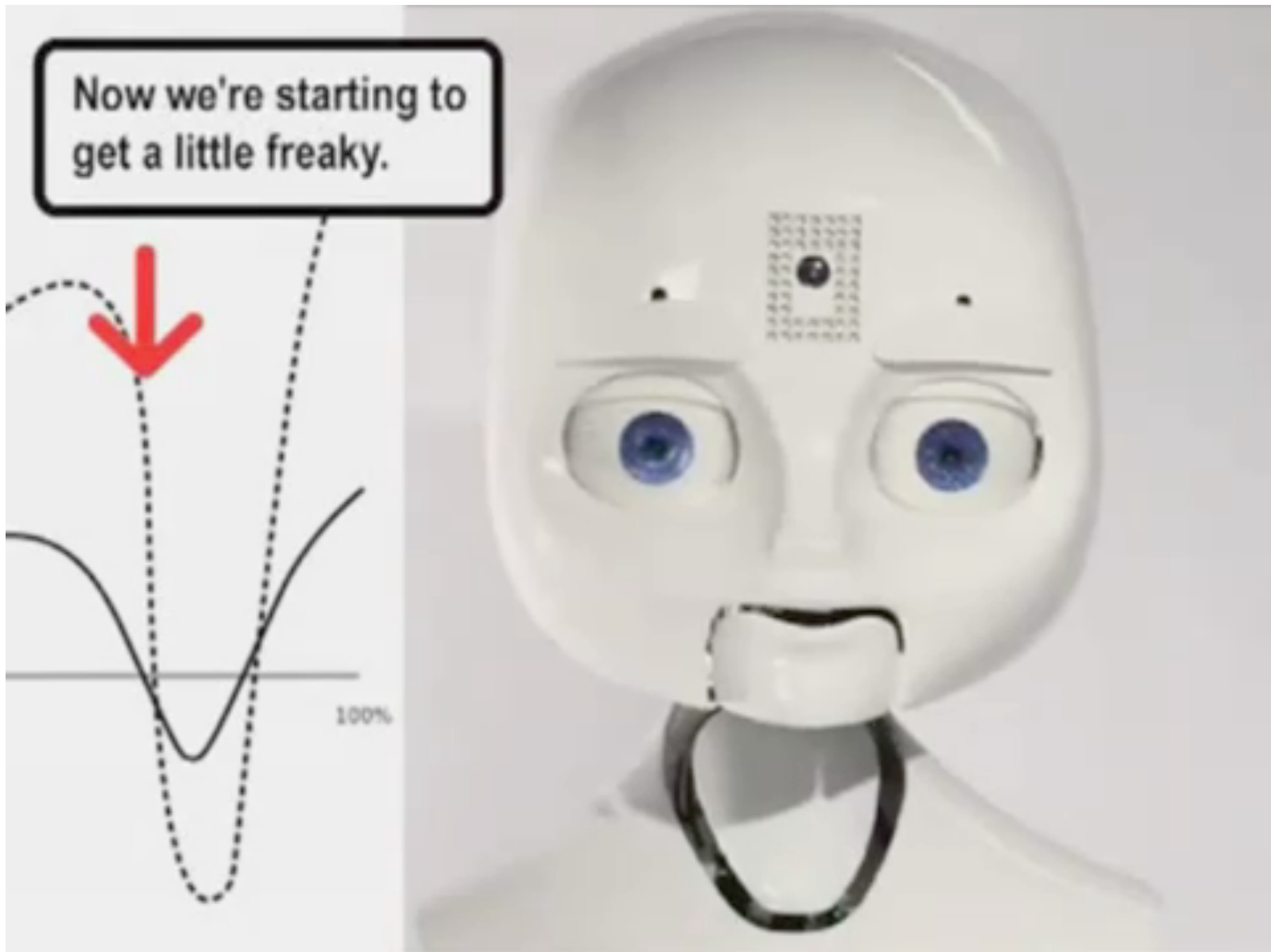
Like this?





# The Uncanny Valley





Uncanny Valley: Electronica 2011- Autofonic

# Natural – or Believable?



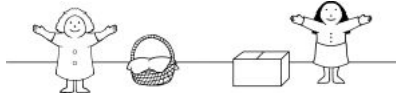
# Theory of mind

Now Sally comes back.

She wants to play with the ball.

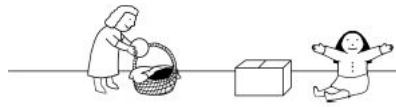


Where will Sally look for the ball?

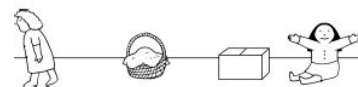


This is Sally.

This is Ann.



Sally has a ball. She puts it into her basket.



Sally goes out for a walk.  
Ann takes the ball out of the basket.



Ann then puts the ball in the box.

# Windows to the mind..

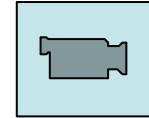


# Being expressive..

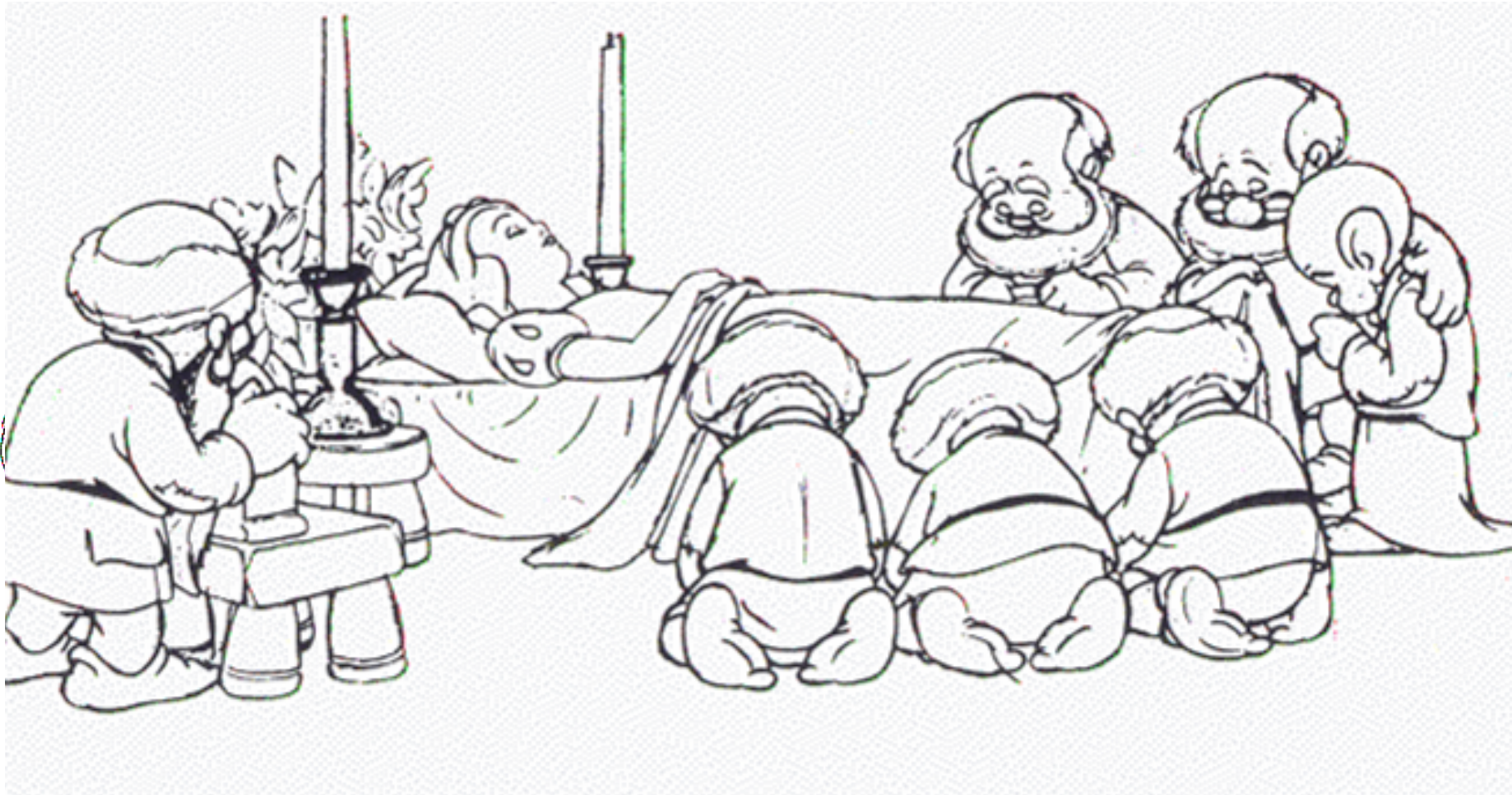


## EMYS Experiment

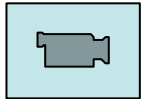
# Alyx's breakfast



# And empathy?



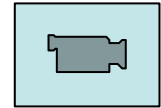
Questions/comments? Use Twitter tag #robotfriends



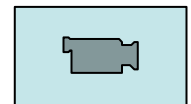
# iCat observing two players scenario



# A therapeutic robot



# An empathic tutor



And will they take over the world?

