



La Robotisation des objets
Frédéric Kaplan / EPFL

Inventaire.



6\$ (amazon.com)

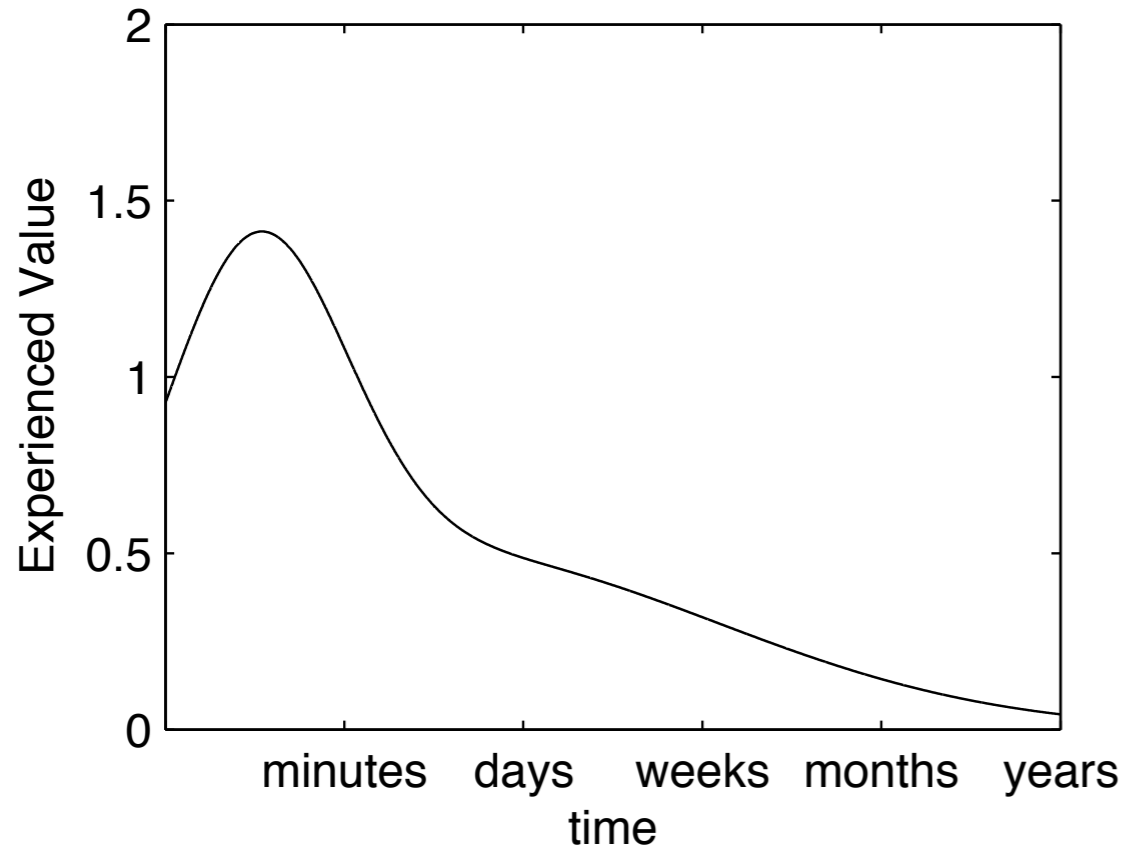
35000 objets

150 types d'objets

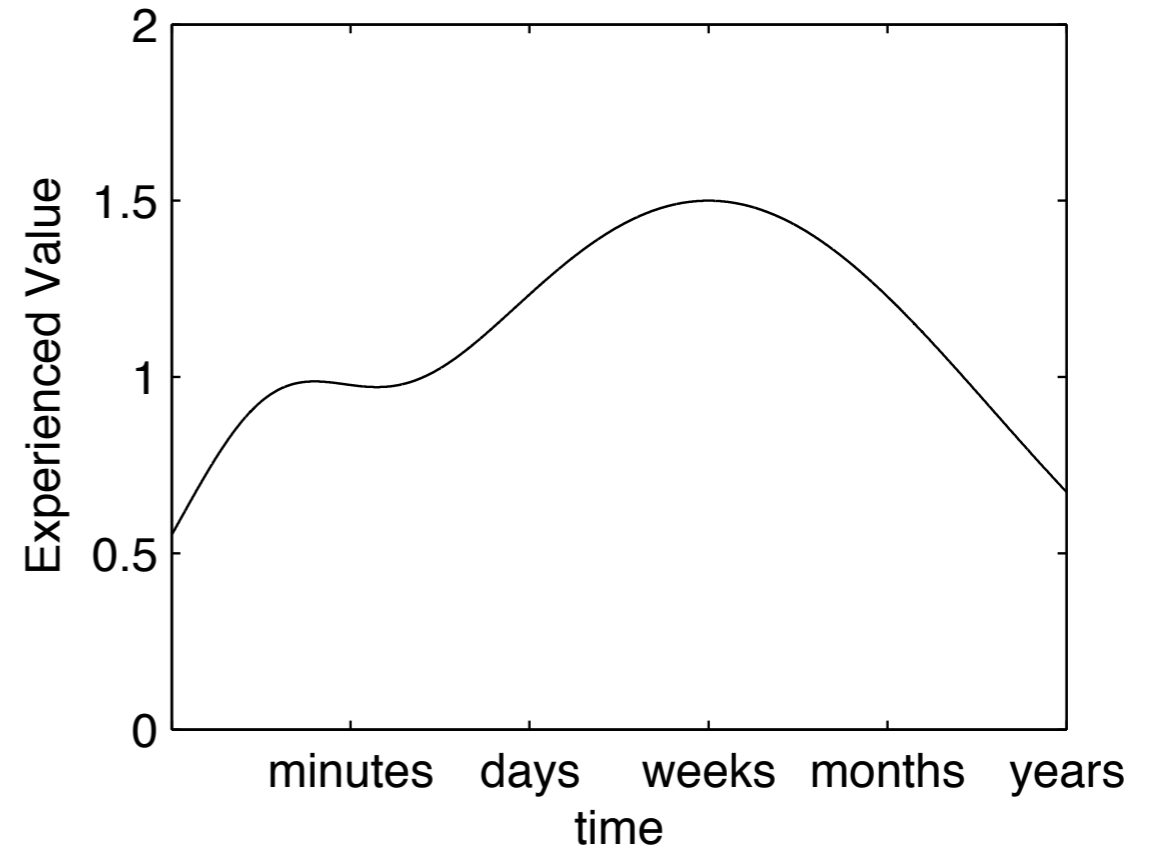


Quelle est la
valeur de ces objets ?

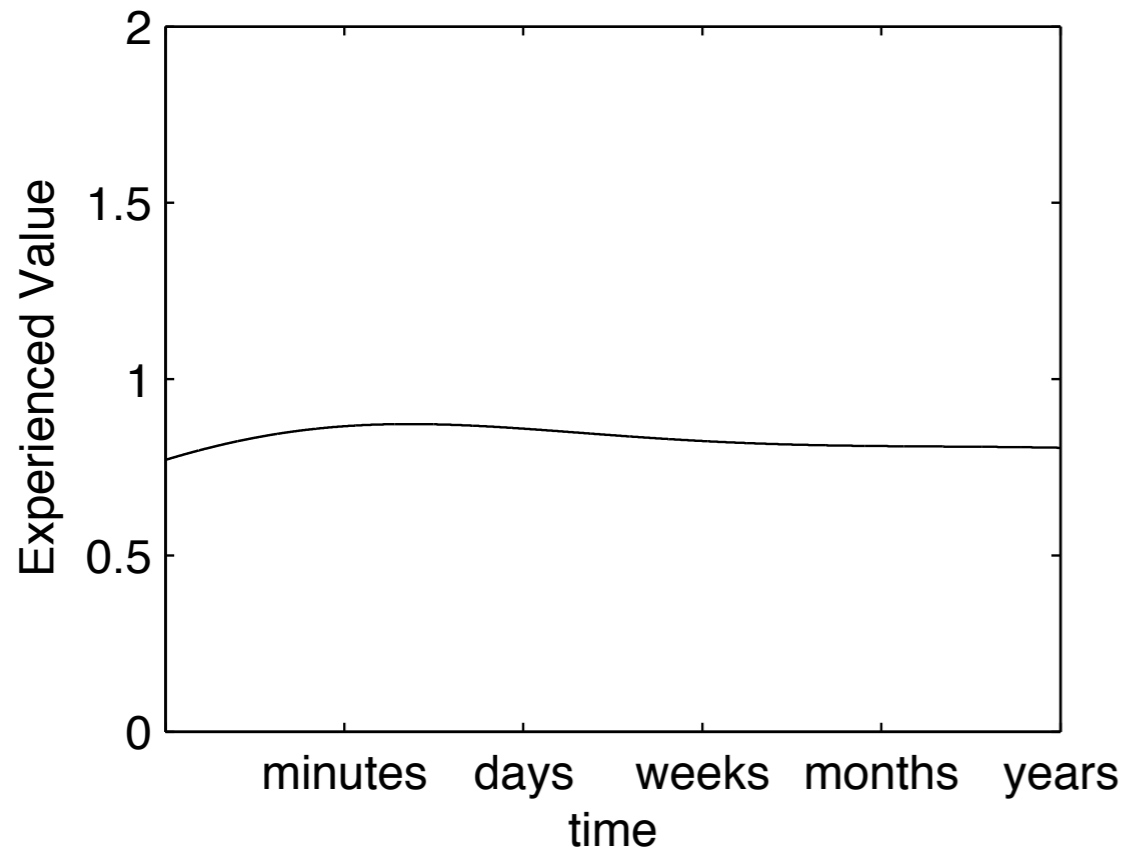
a. fashionable clothes



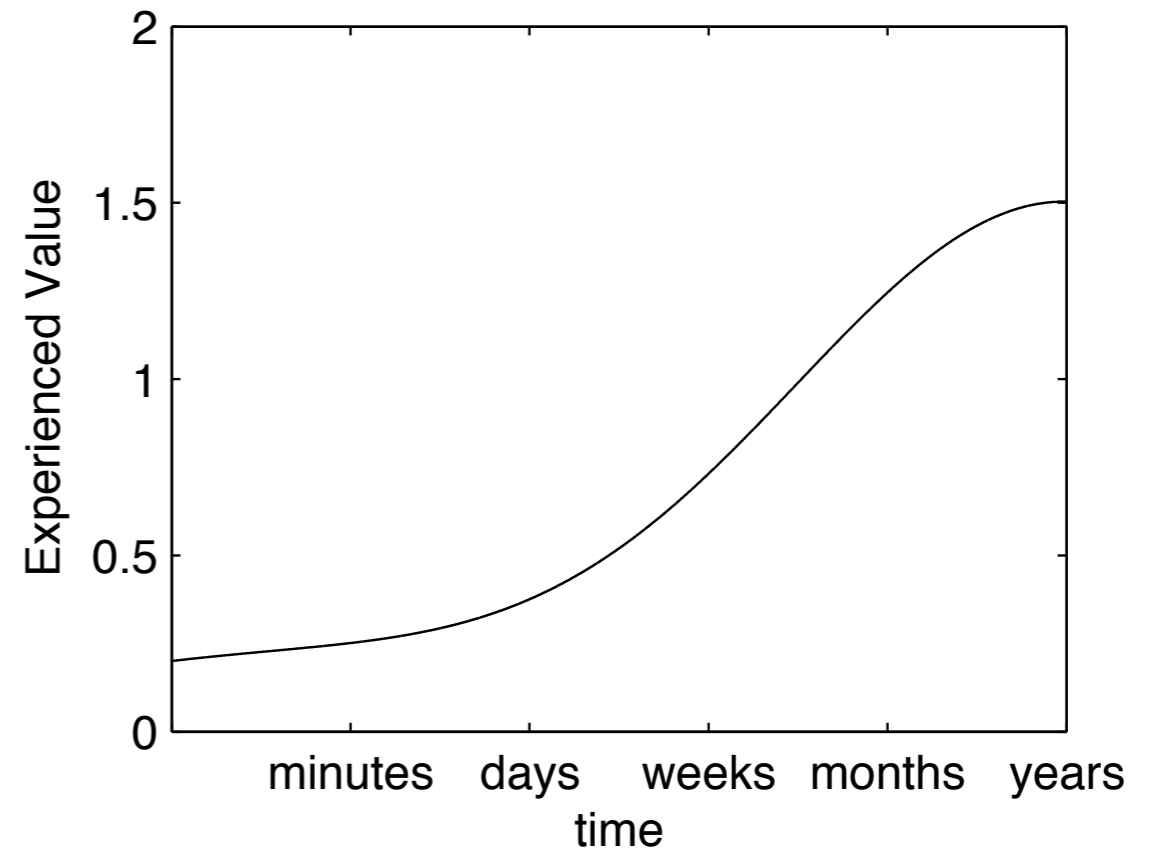
b. computers

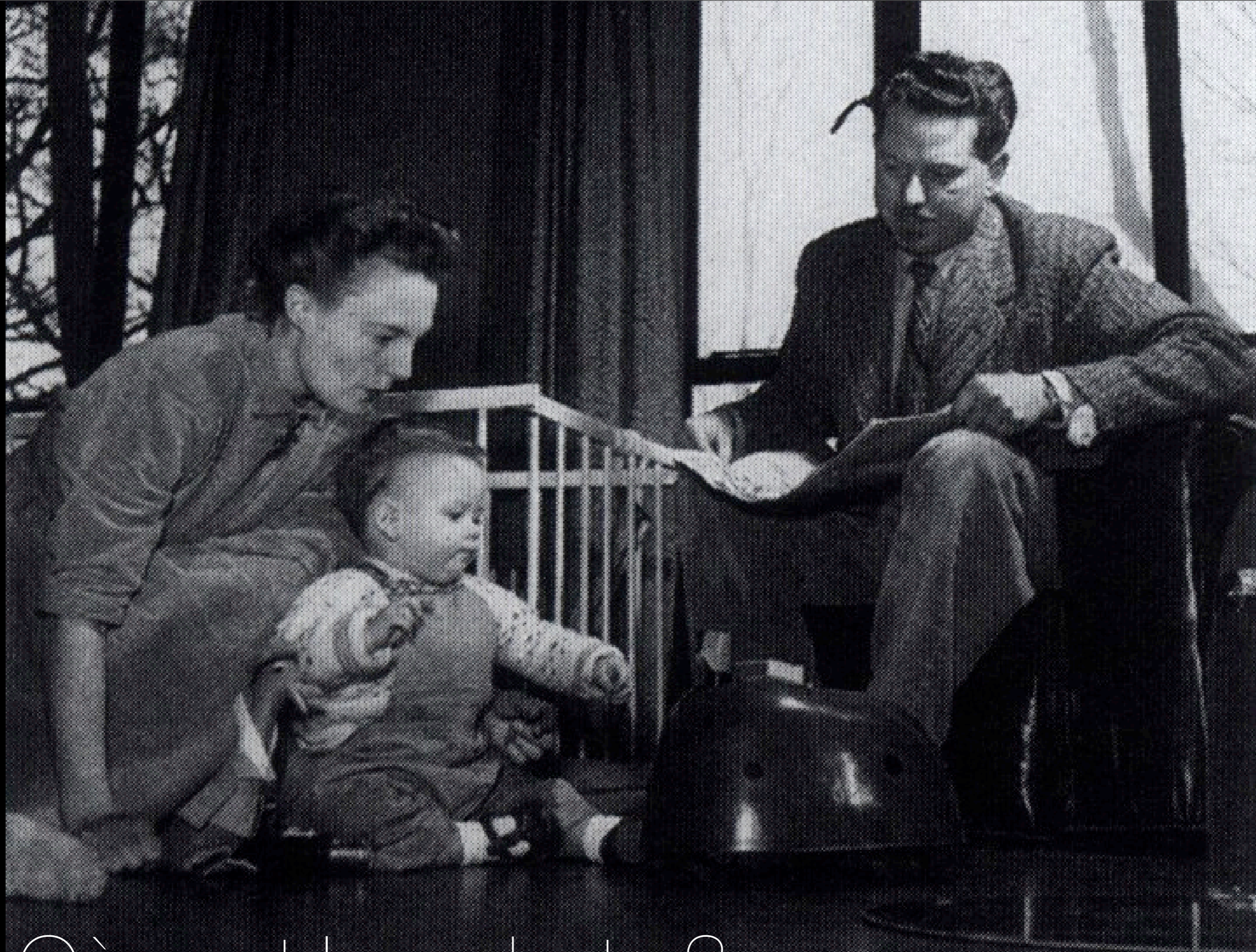


c. corkscrews

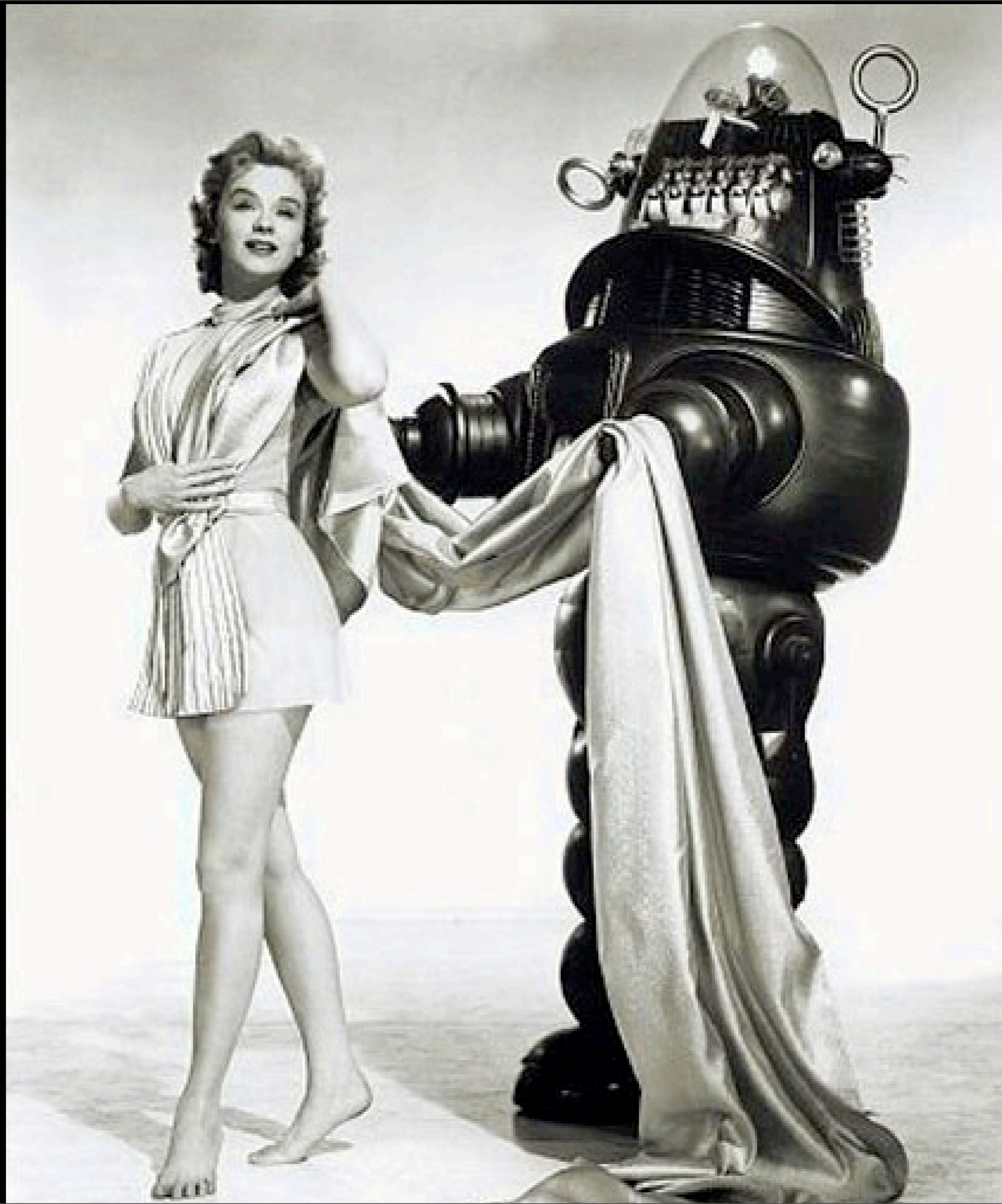


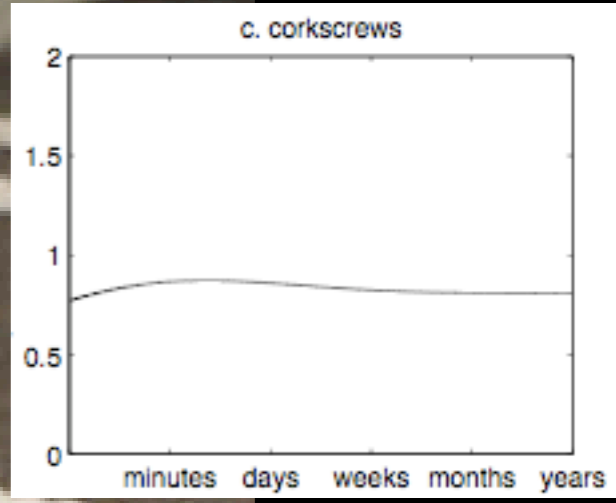
d. notebooks

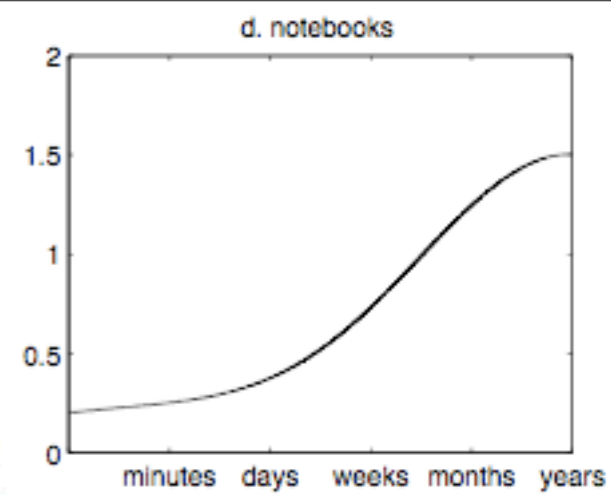


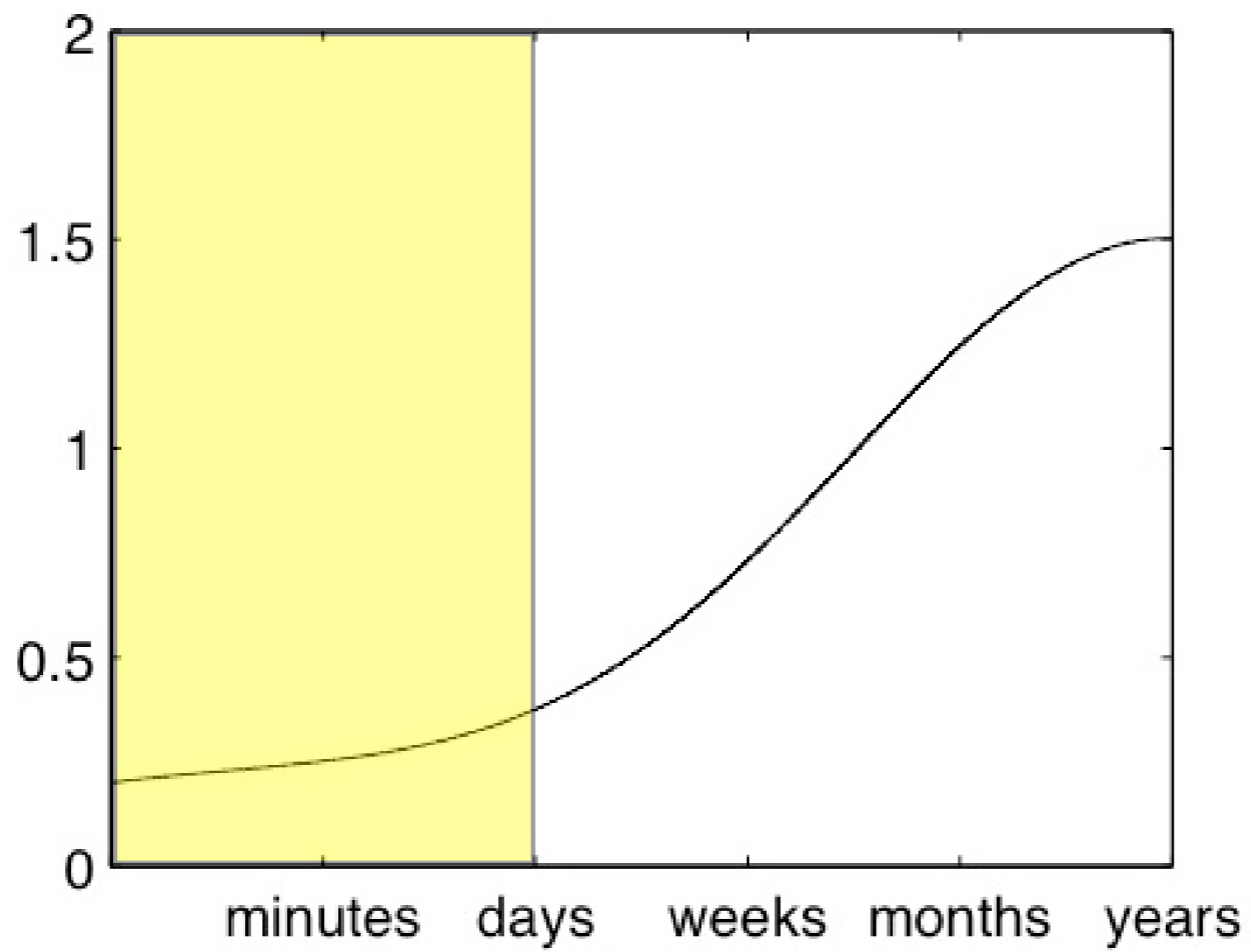


Où sont les robots ?

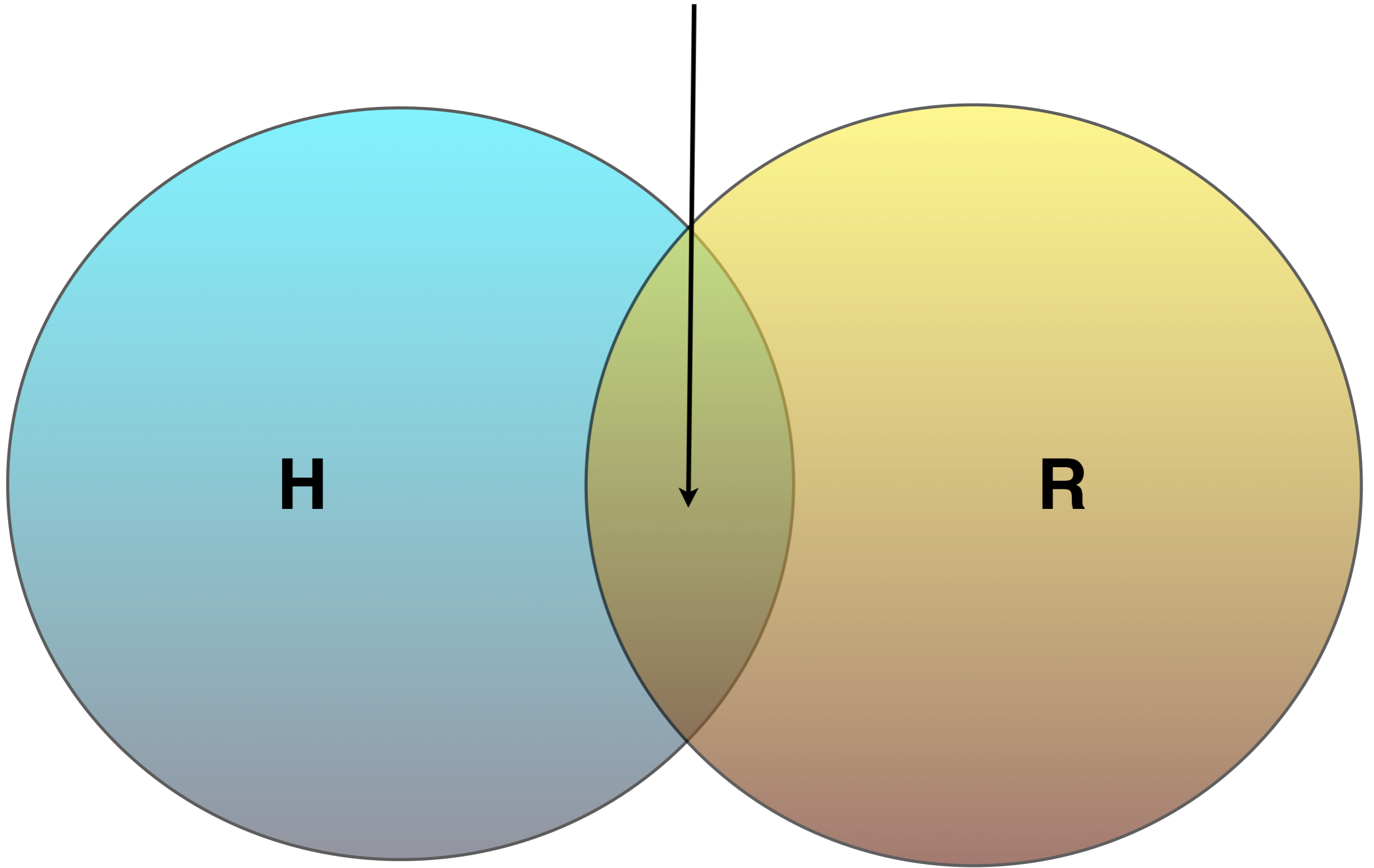




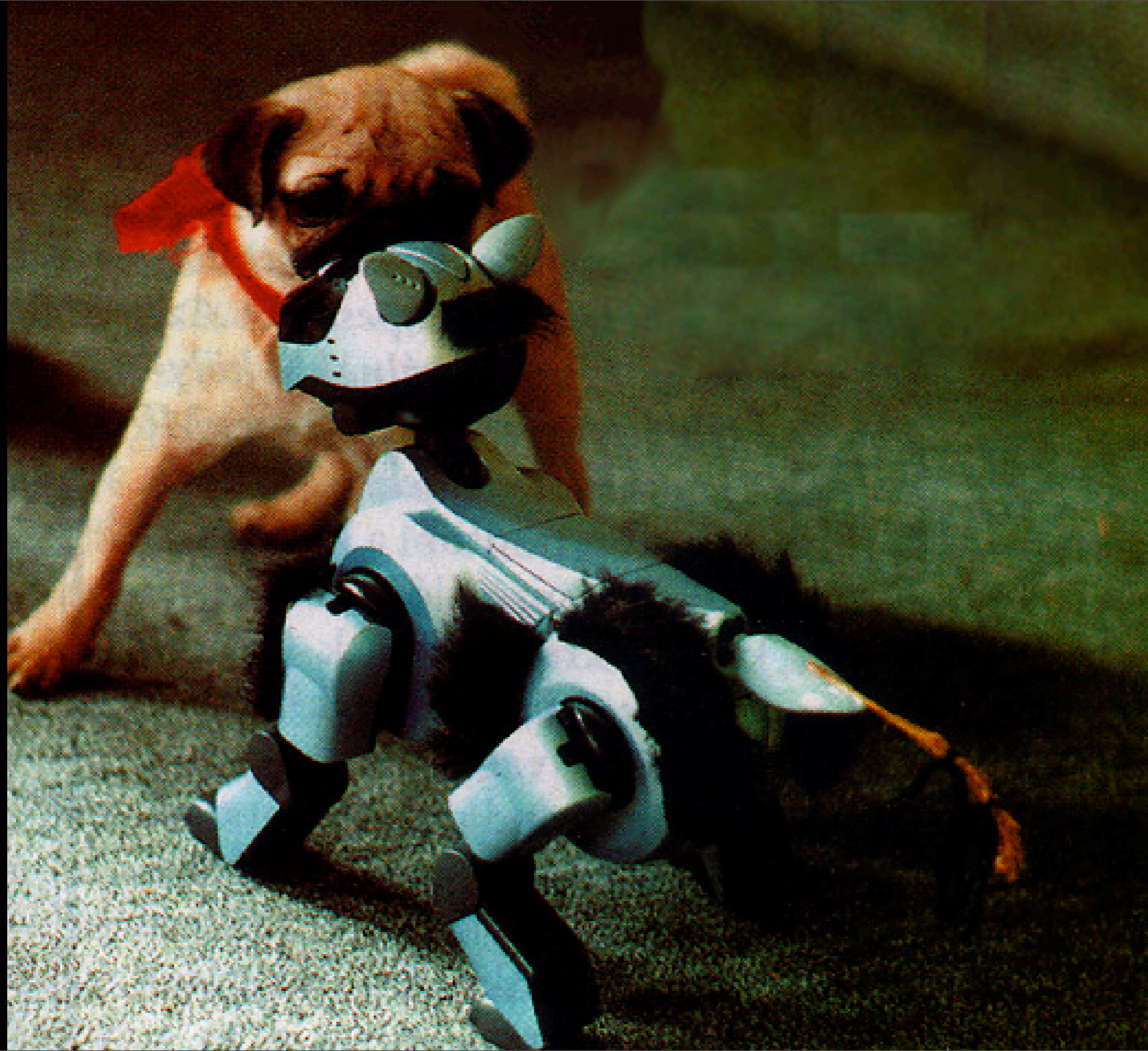




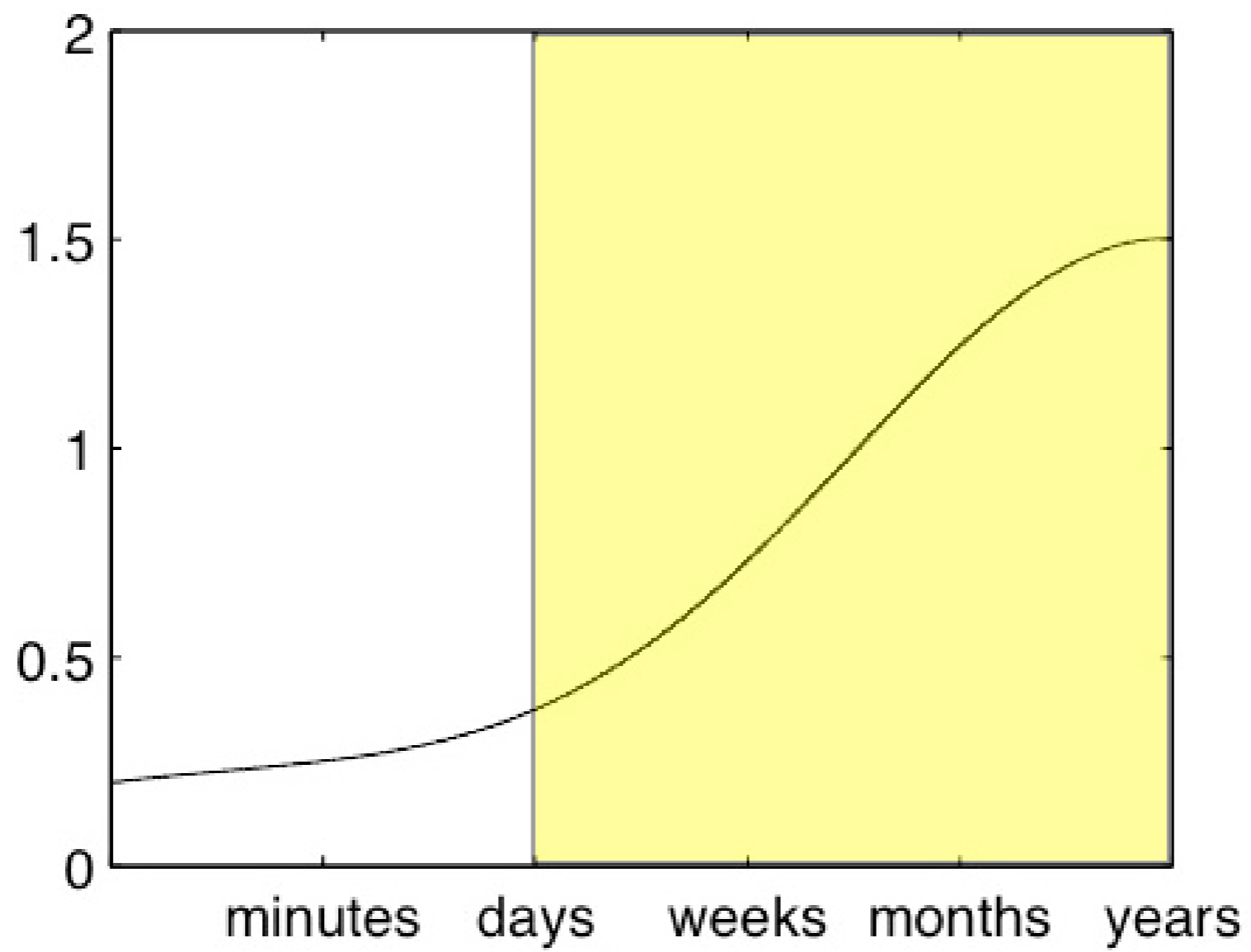




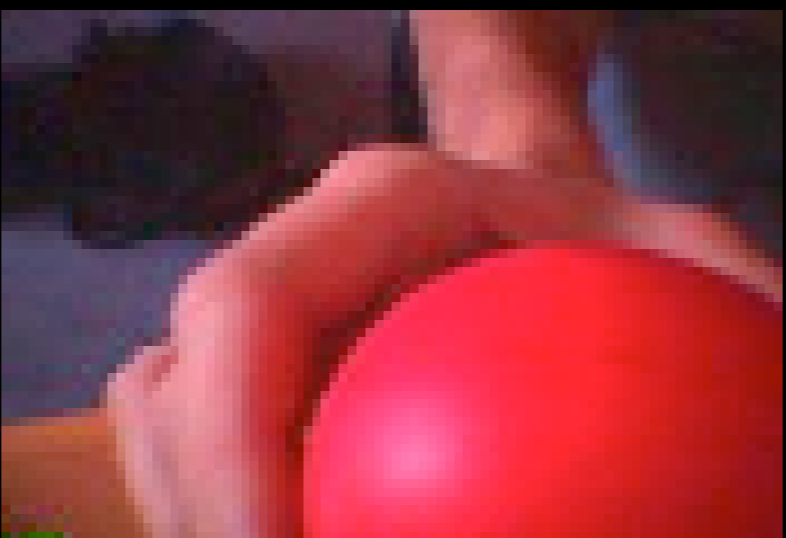
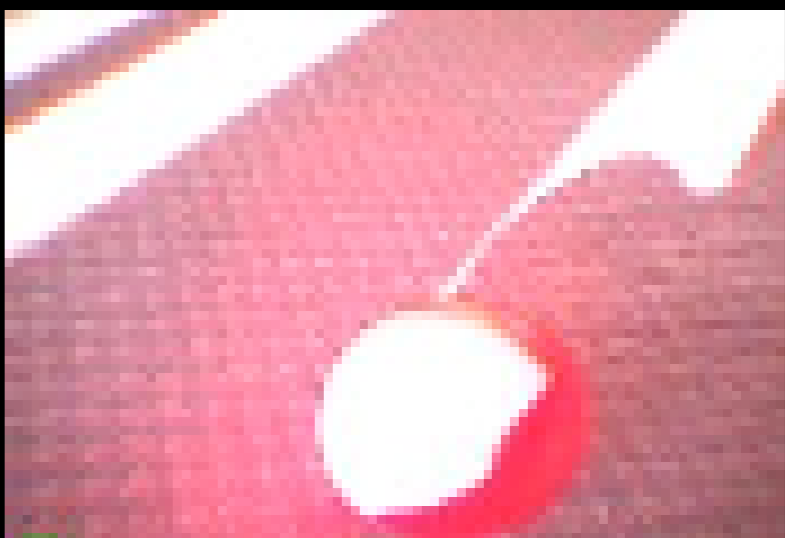
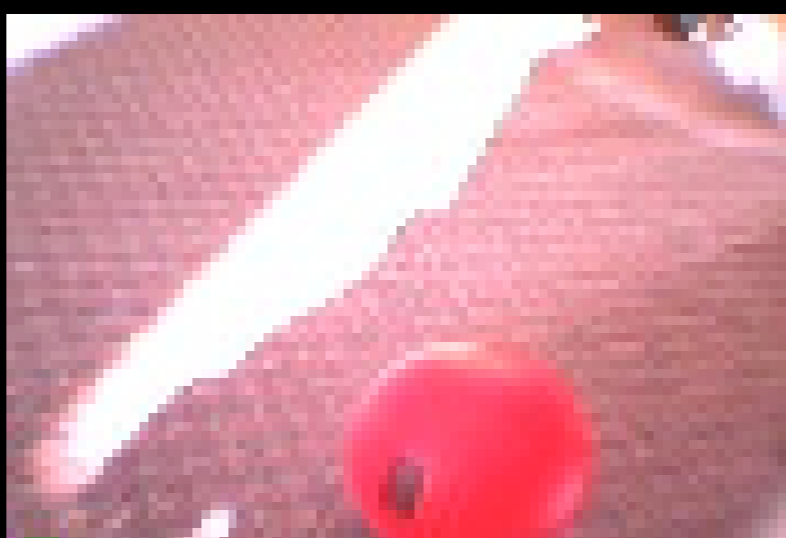
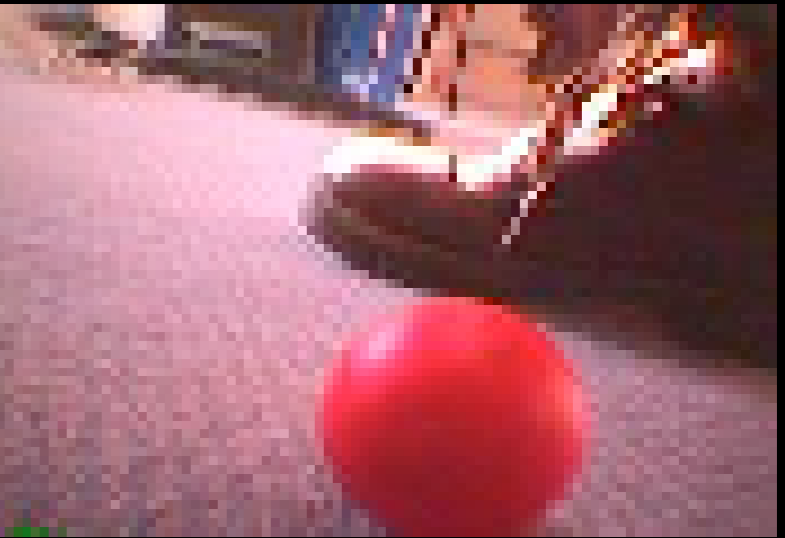
intersection

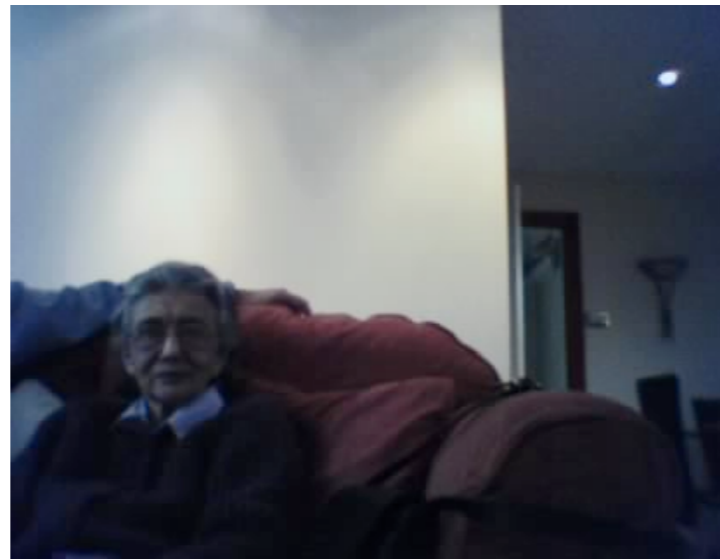


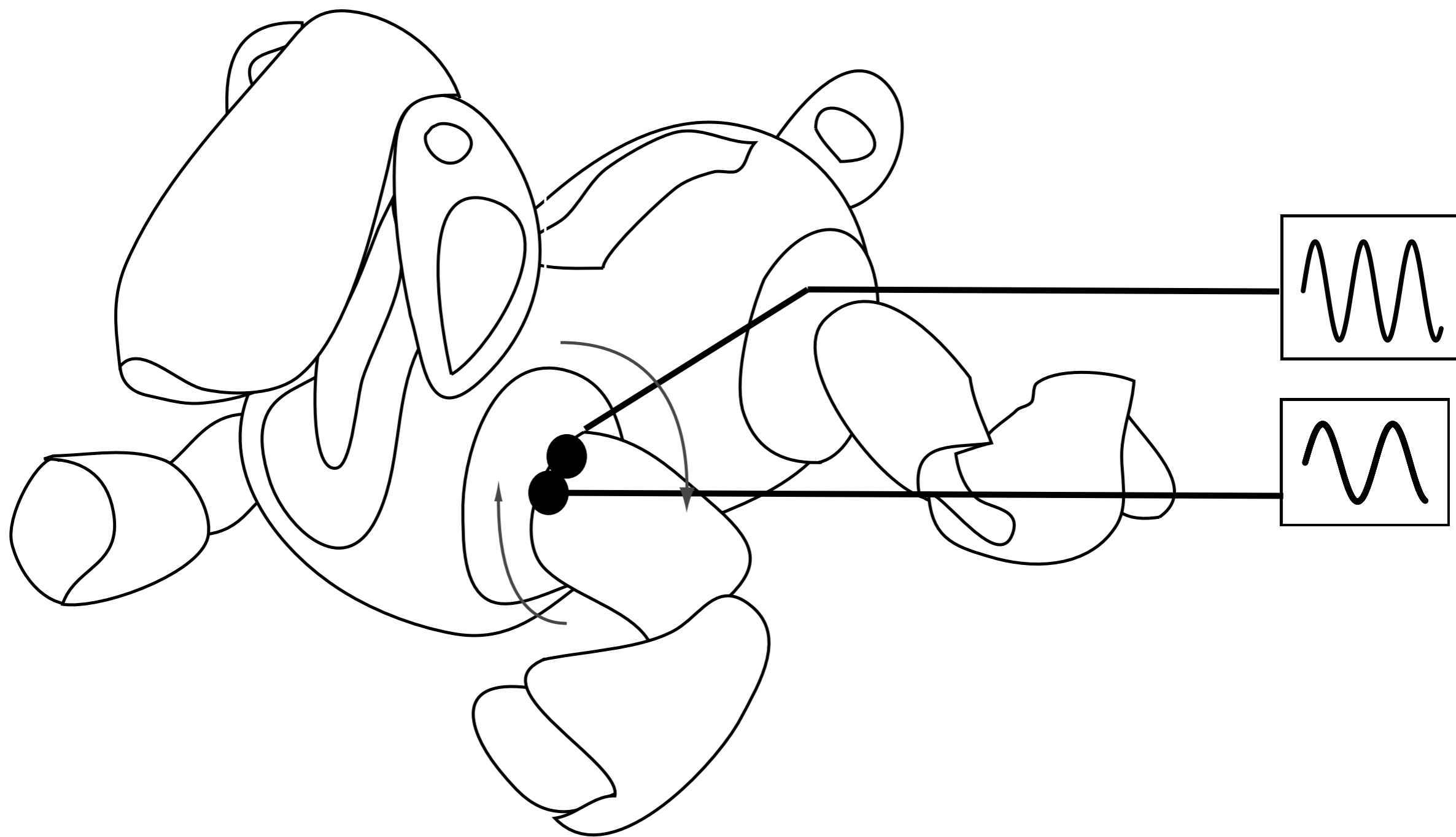




Naming Objects







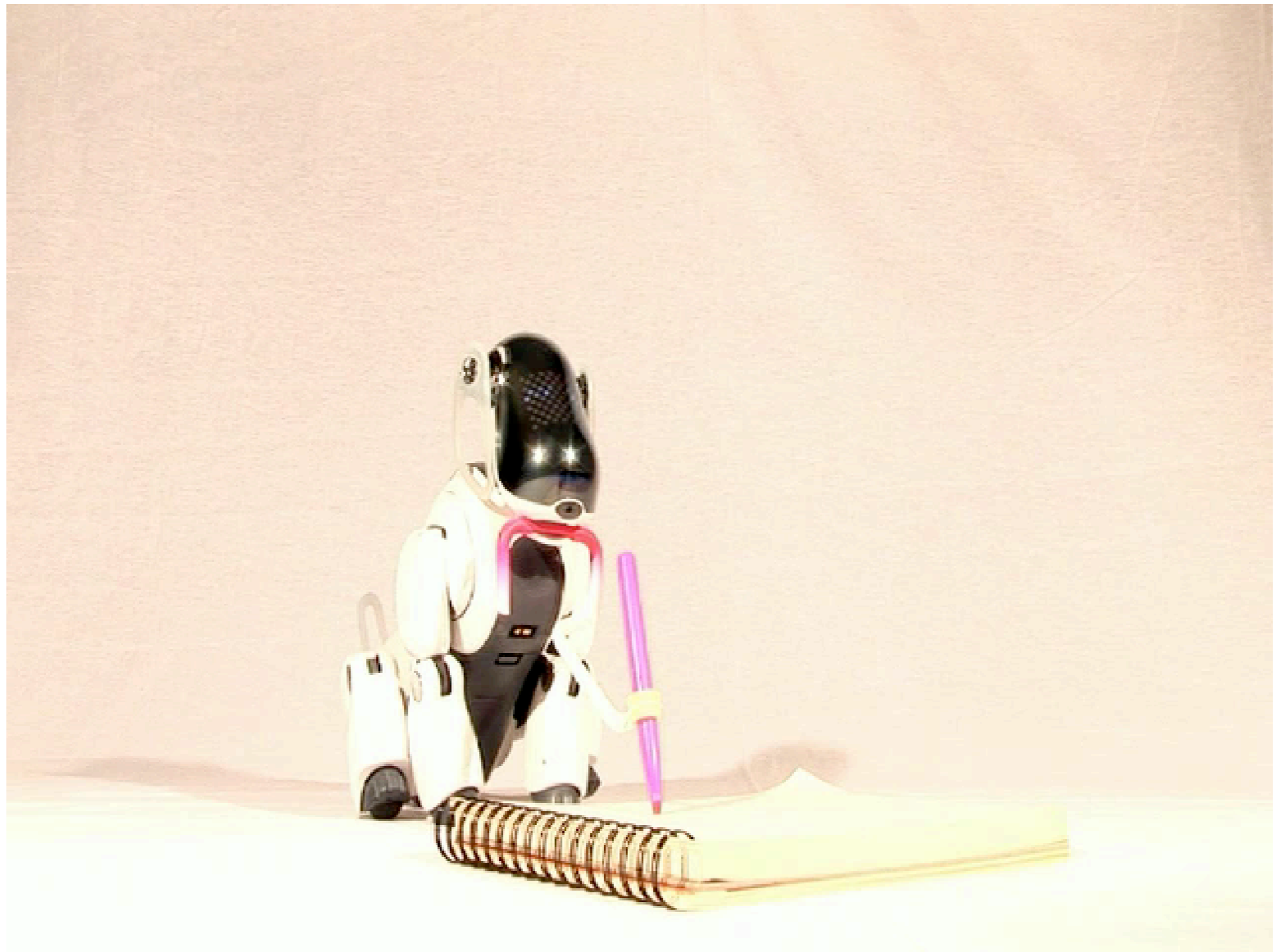
8 joints * 3 parameters =
24-dimensional motor vector



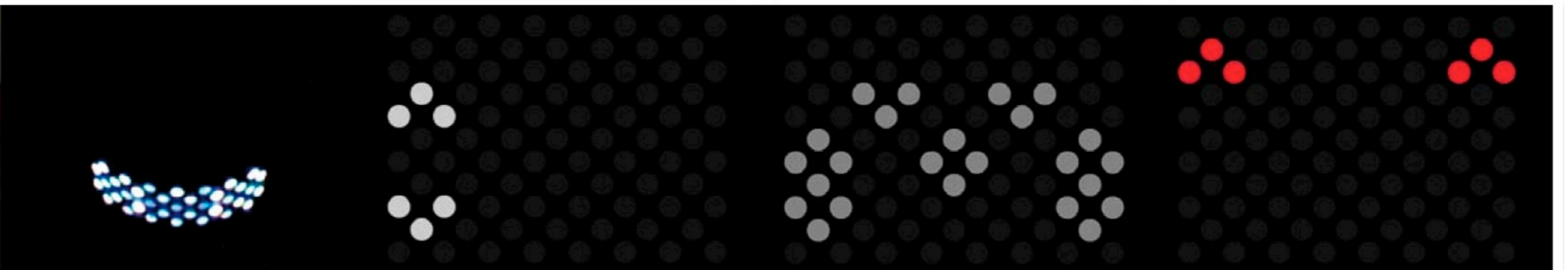
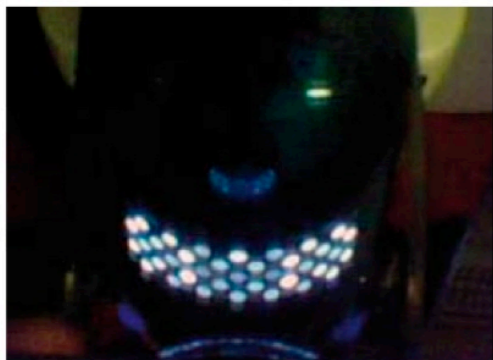




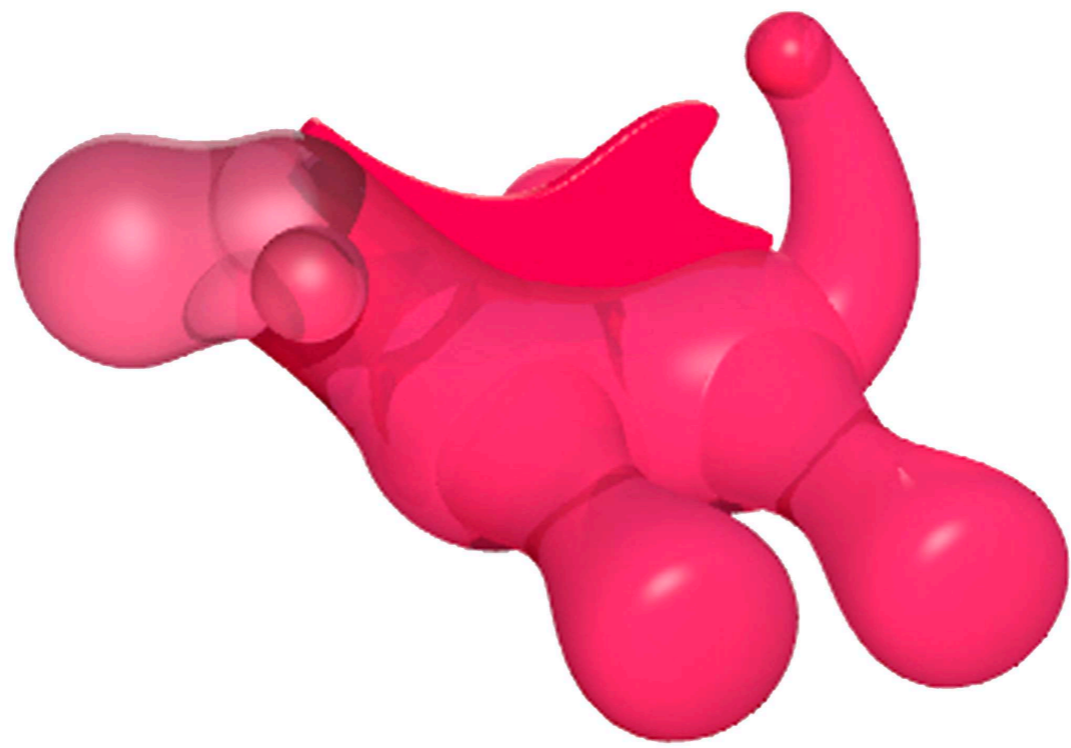


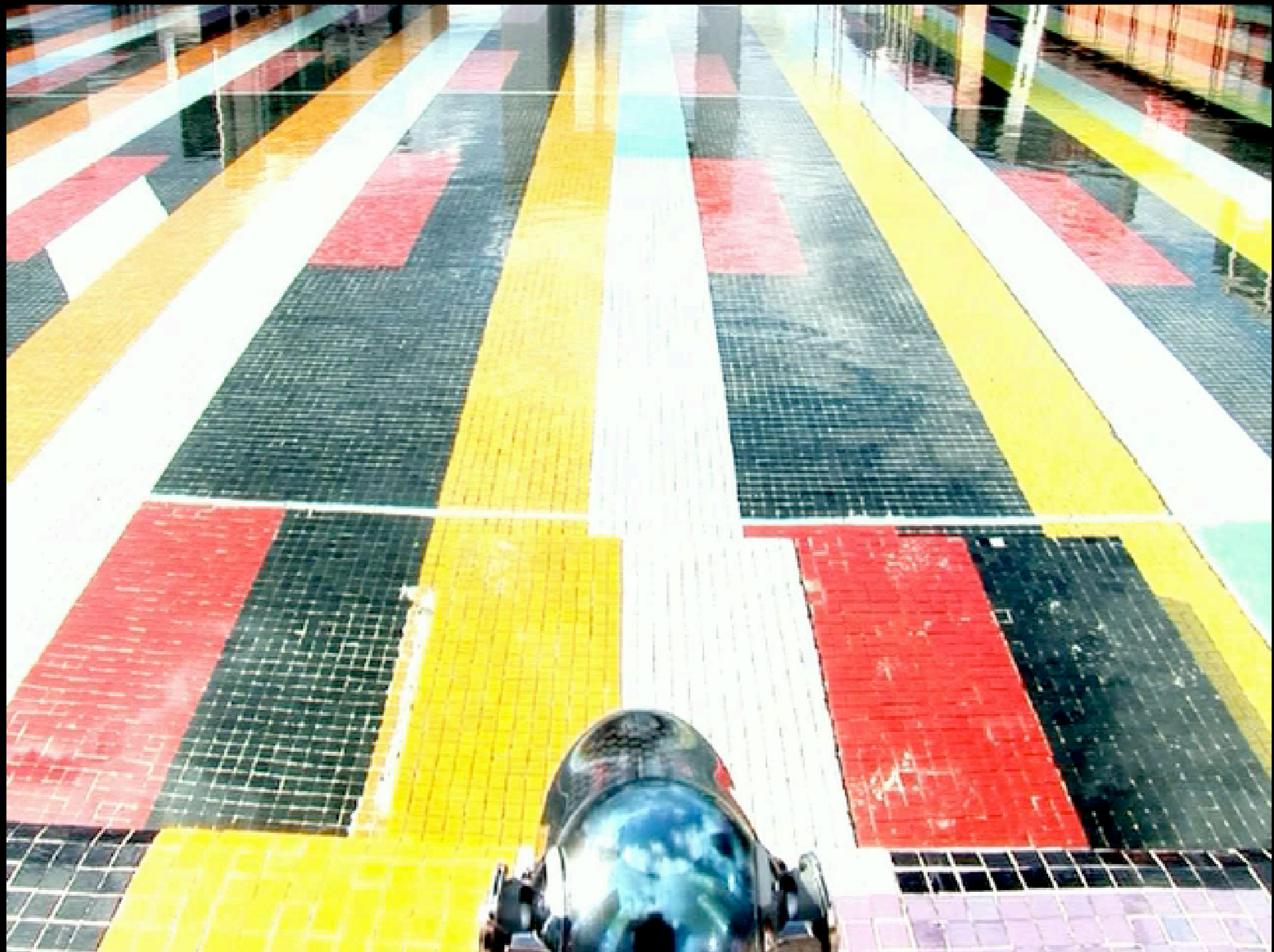


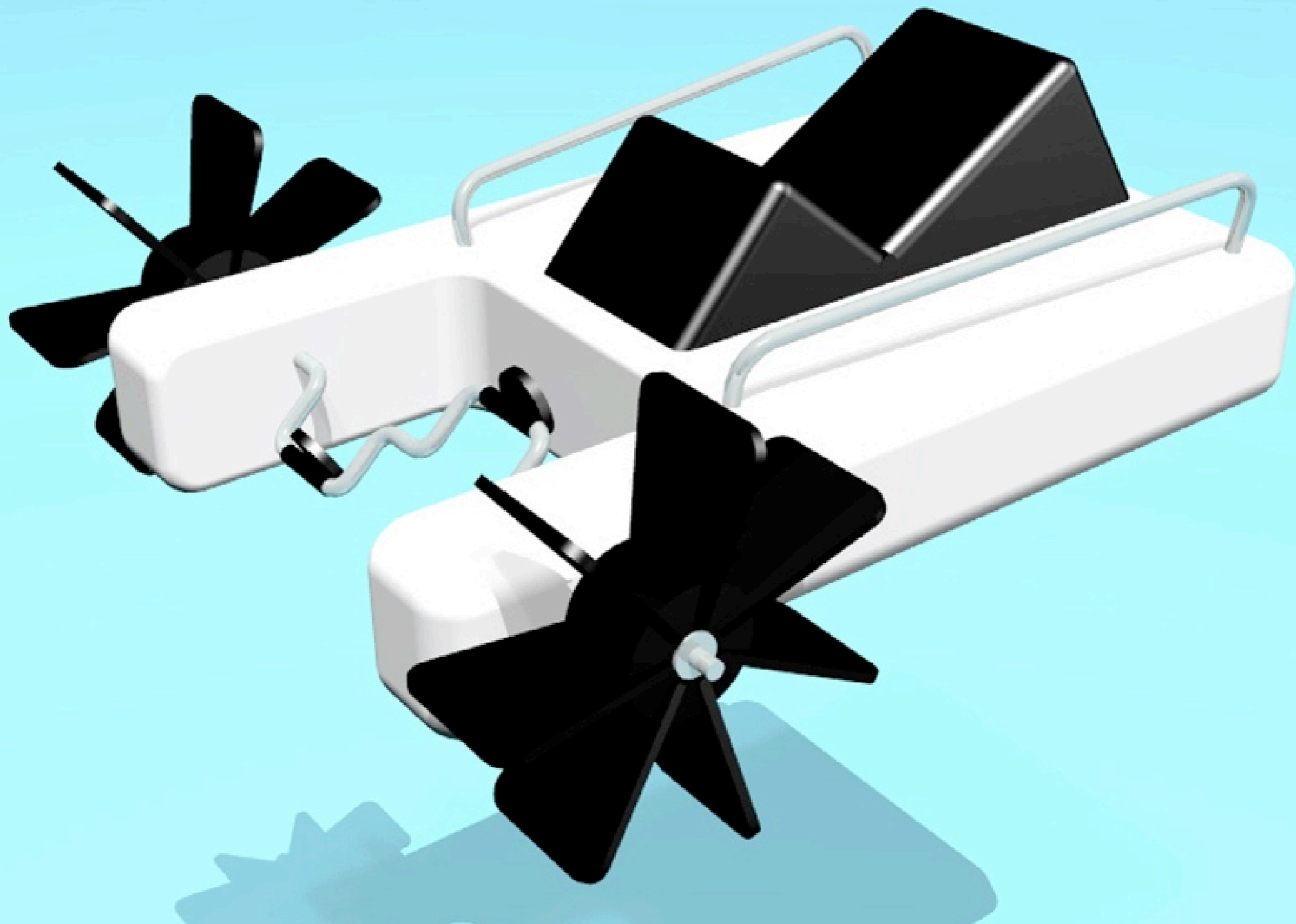


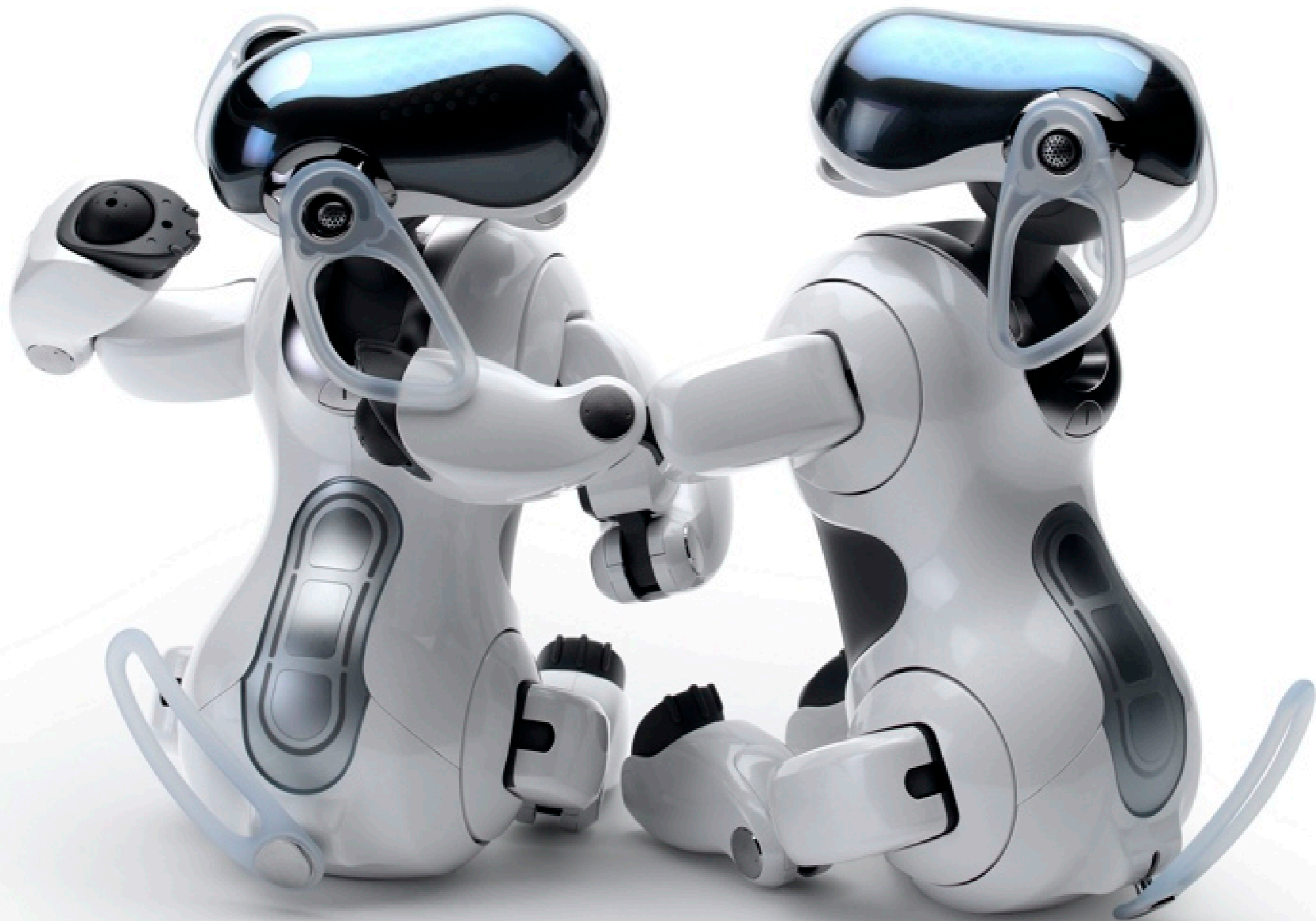




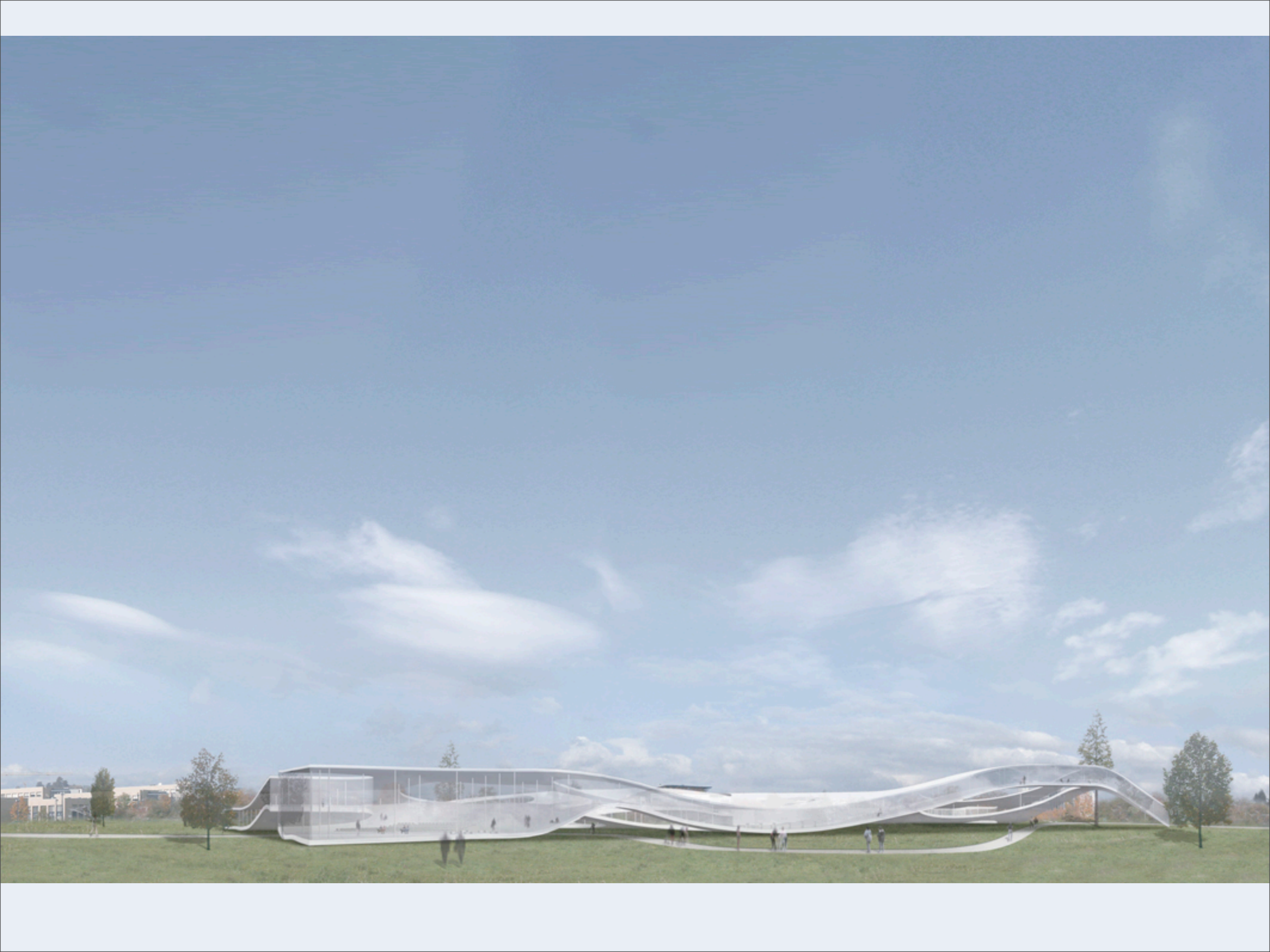




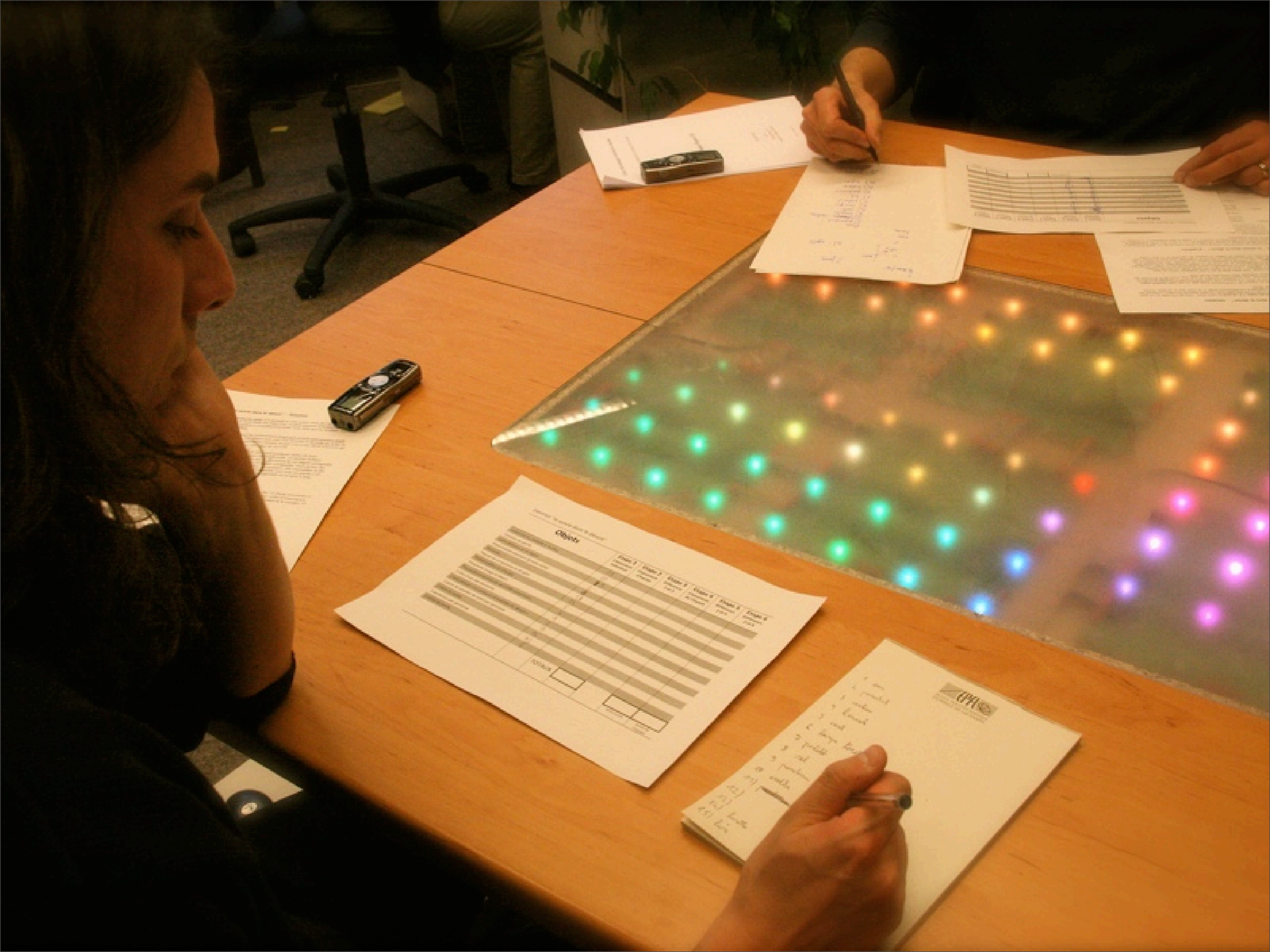












Object

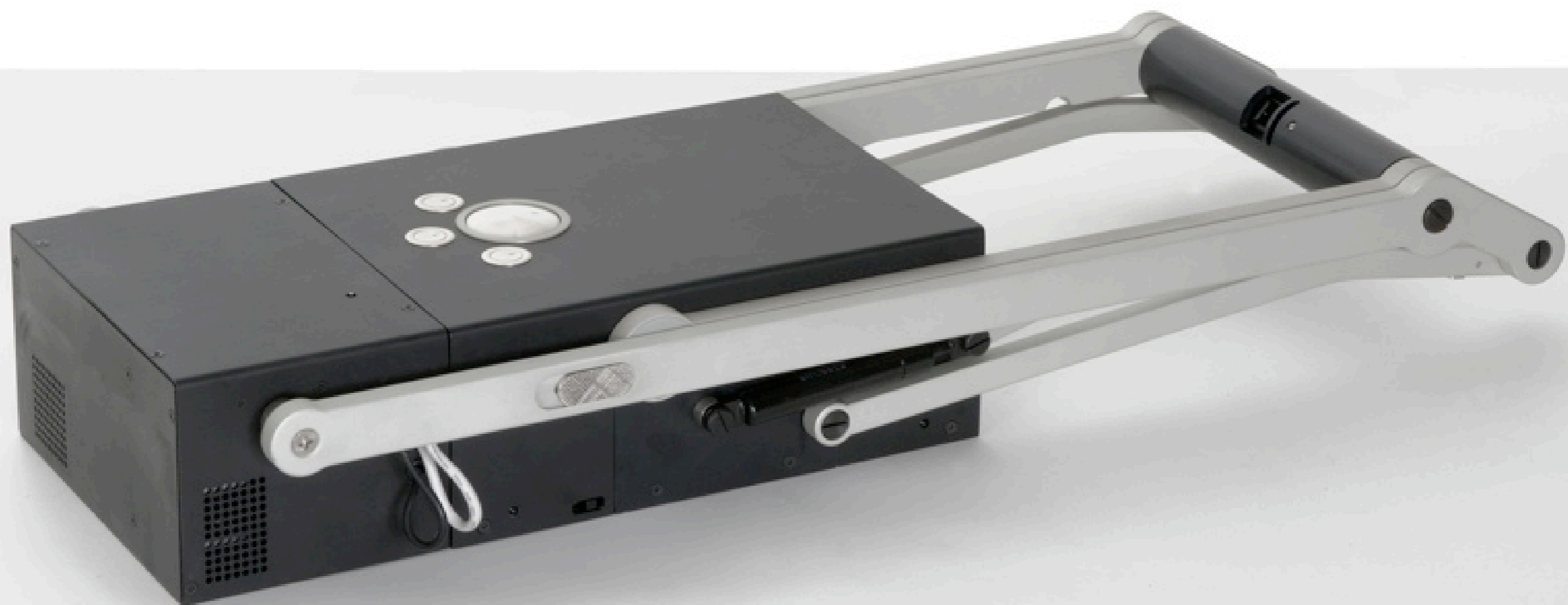
Object	Color	Size	Shape	Position
1	Green	Small	Circle	Top Left
2	Blue	Medium	Square	Center
3	Yellow	Large	Triangle	Bottom Right
4	Purple	Small	Circle	Far Right
5	Red	Medium	Square	Far Bottom

Object	Color	Size	Shape	Position
1	Green	Small	Circle	Top Left
2	Blue	Medium	Square	Center
3	Yellow	Large	Triangle	Bottom Right
4	Purple	Small	Circle	Far Right
5	Red	Medium	Square	Far Bottom

Object

Object	Color	Size	Shape	Position
1	Green	Small	Circle	Top Left
2	Blue	Medium	Square	Center
3	Yellow	Large	Triangle	Bottom Right
4	Purple	Small	Circle	Far Right
5	Red	Medium	Square	Far Bottom













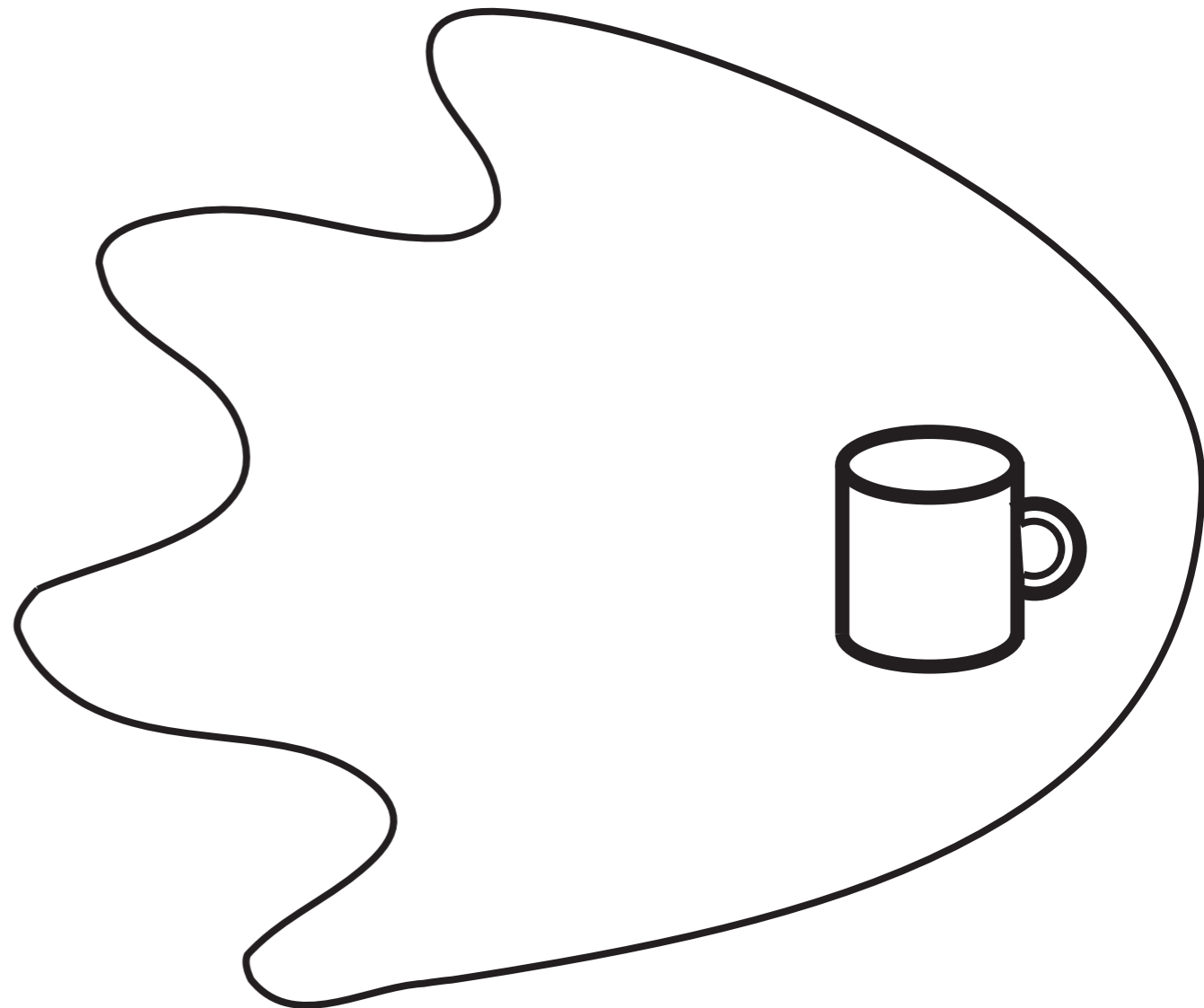
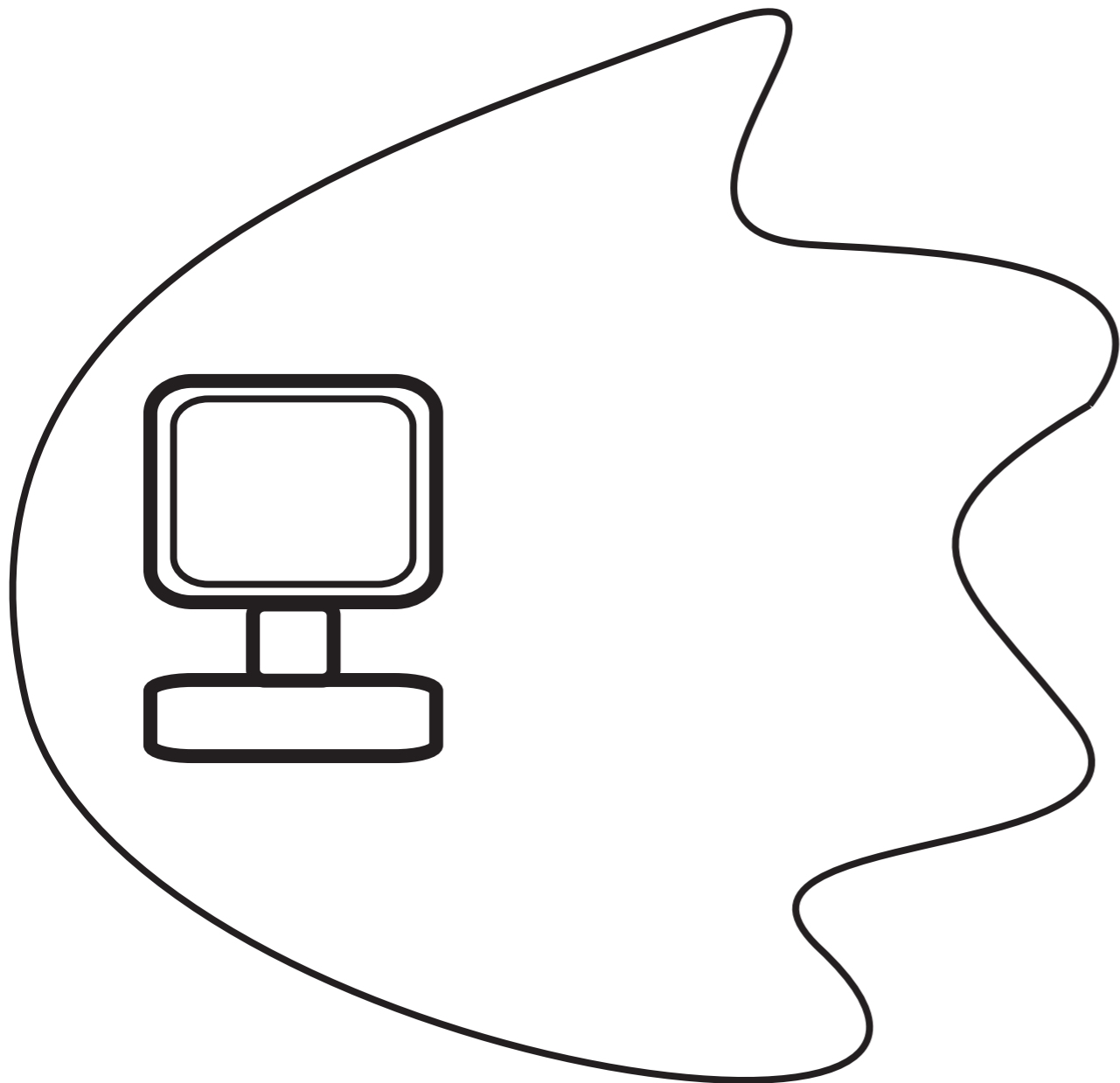








Un immense espace de design à explorer



Les robots seront-ils des objets de tous les jours ?

Les objets de tous les jours seront-ils des robots ?



The background of the slide is a photograph of a bright blue sky filled with soft, white, wispy clouds. In the upper right and lower right corners, there are dark, silhouetted branches and leaves of trees, partially obscuring the sky. The overall mood is calm and serene.

Calm technologies

ron gray (2006)

“Chili” technologies



alme sol (2006)

A vous de choisir.

AIBO Research / Sony CSL Paris

Luc Steels (dir.) Pierre-Yves Oudeyer, Verena Hafner, Andrew Whyte, Claire d'Este

Prototypes / EPFL-CRAFT :

Pierre Dillenbourg (dir.) / Khaled Bachour (Reflect) / Son Do-Lenh (DockLamp) / David Brechet (DockLamp) / Patrick Jermann (DockLamp) Annick Plancherel (DockLamp) / Andrina Brun (Reflect) / Gloria Kao (DockLamp) / Clement Gault (DockLamp)

Design / ECAL :

Martino d'Esposito (DockLamp, Reflect, Wizkid) / Luc Bergeron (dir.) / Thomas Dromelet, Simon Lécureux, Vladimir Jaccard, Julien Mathey, Jonathan Gehry, Sébastien Doutaz, Giuseppe Miccio, Julien Rosina, Jamil Alioui, Sébastien Stoss, Vanessa Gerotto, Laure Krayenbuhl, Maria Beltran, Tiphaine Golaz, Valérie Sauvin, Delphine Rumo, Christian Spiess, Martin Haldimann, Gregory Brunisholz, Adrien Fasel, Emmanuel Mbessé, Michel Charlot, Arnault Weber, Julien Garnier, Camille Blin, Laurence Stoffel, Béatrice Durandard