

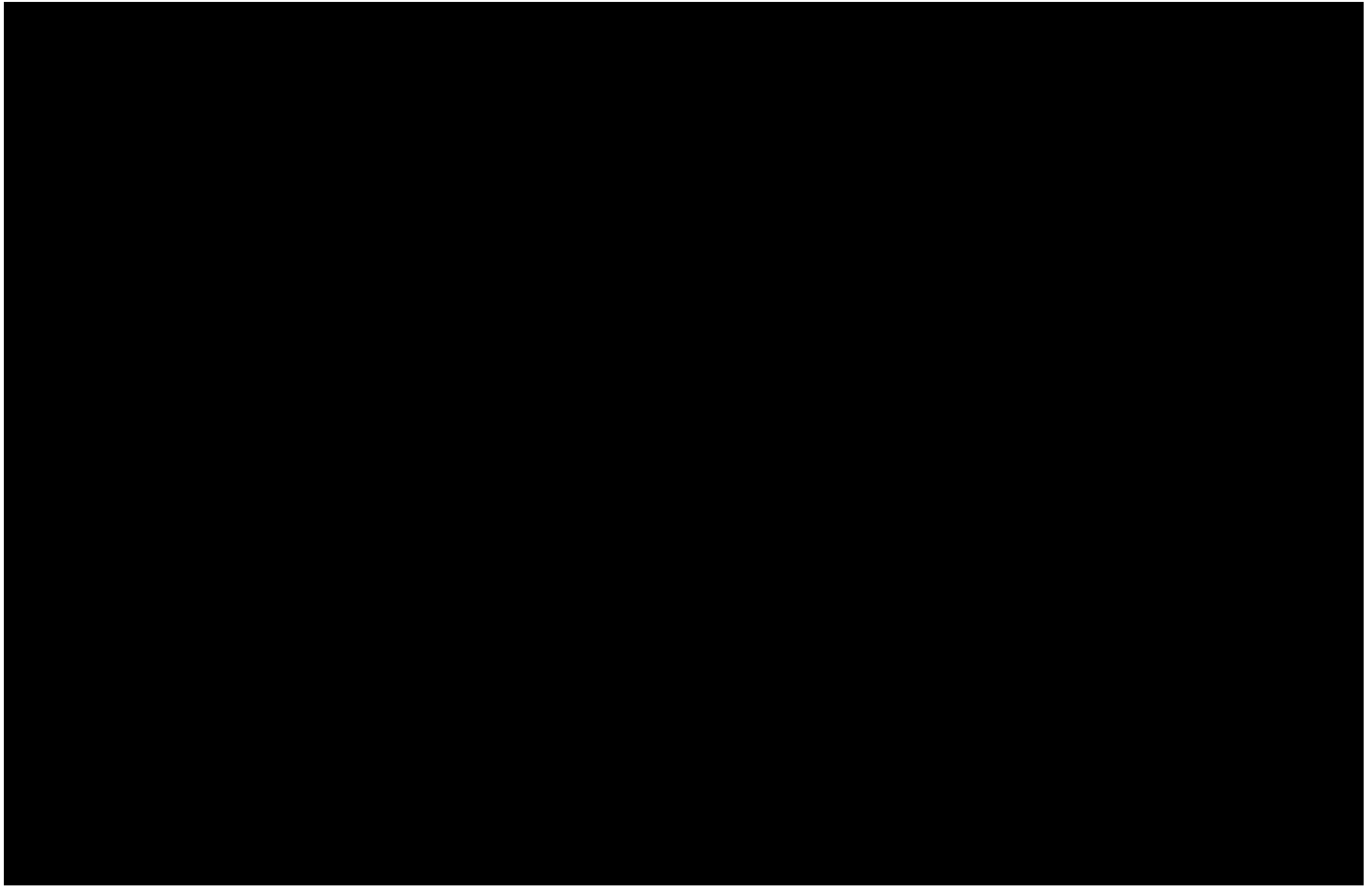
RECOGNIZE AND CLASSIFY ANIMAL -- NO ANIMAL



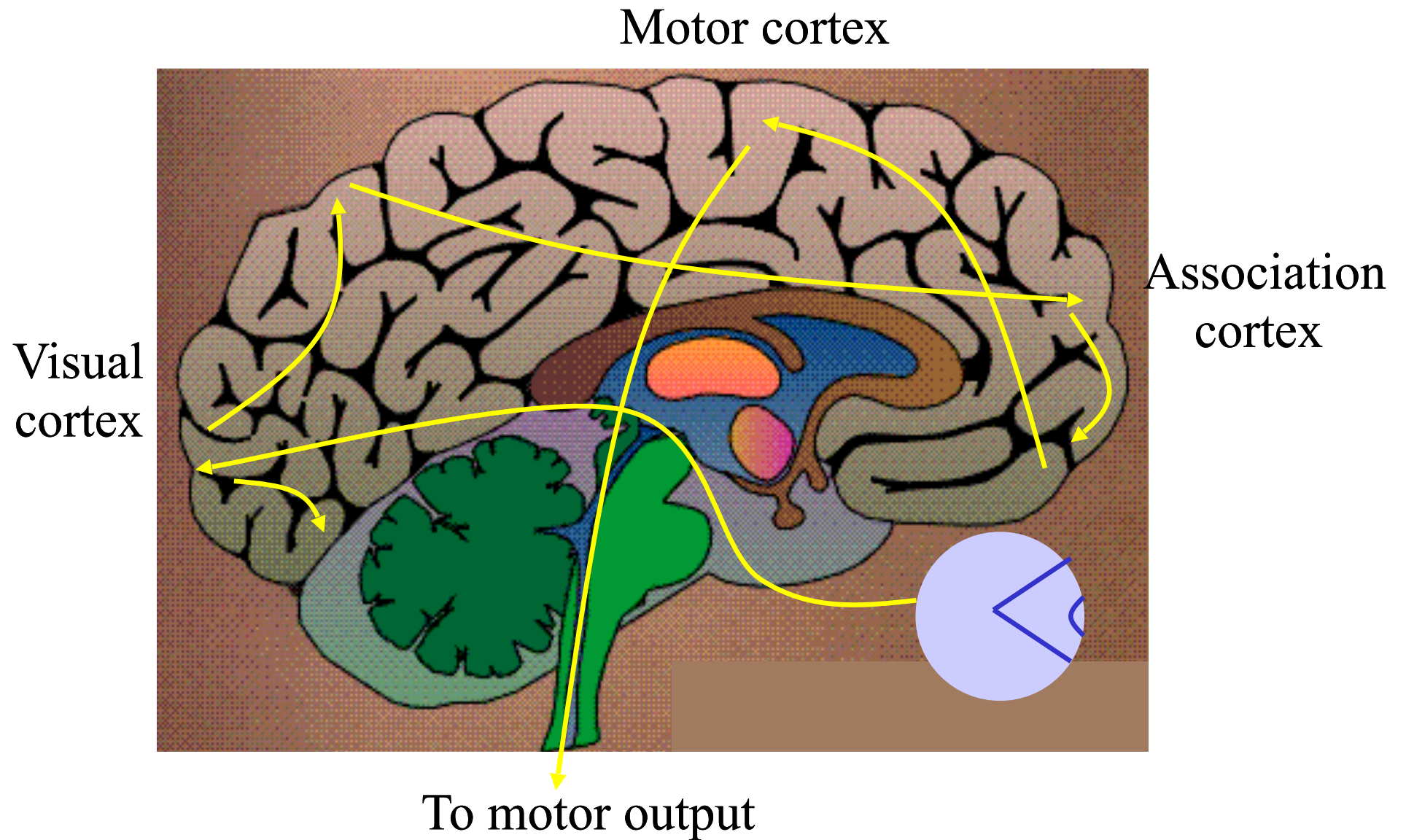
Subjects must raise their hand if they see an animal:

- 60 images
- 1 image per second

→ Measure their reaction time.



BRAIN PATHWAYS



CHALLENGES



Vision involves dealing with:

- Noisy images
- Many-to-one mapping
- Aperture problem

→ Useful information can be extracted by:

- Designing appropriate models.
- Exploiting training databases.
- Combining the two effectively.

OPPORTUNITIES

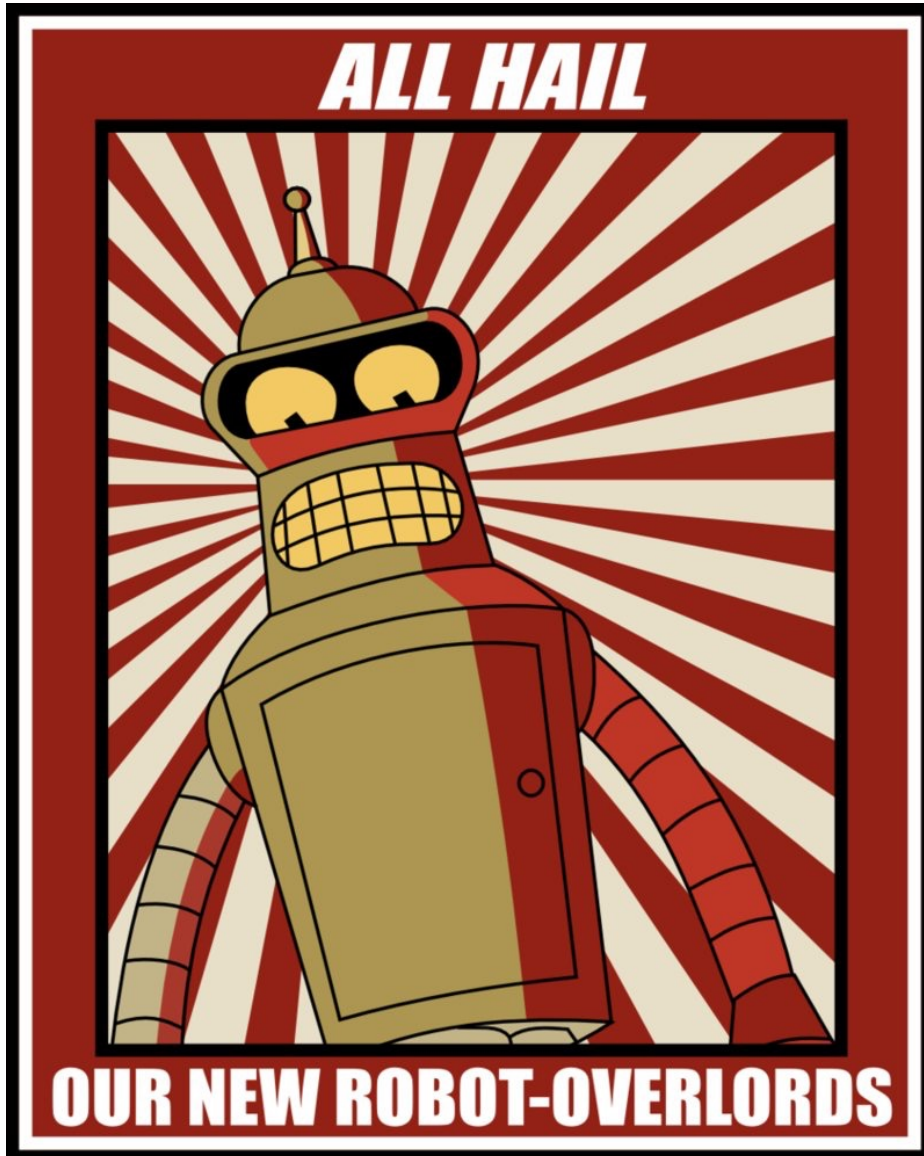


Cameras are becoming ever more prevalent

- Tremendous potential for applications.
- A window on the way the mind works.

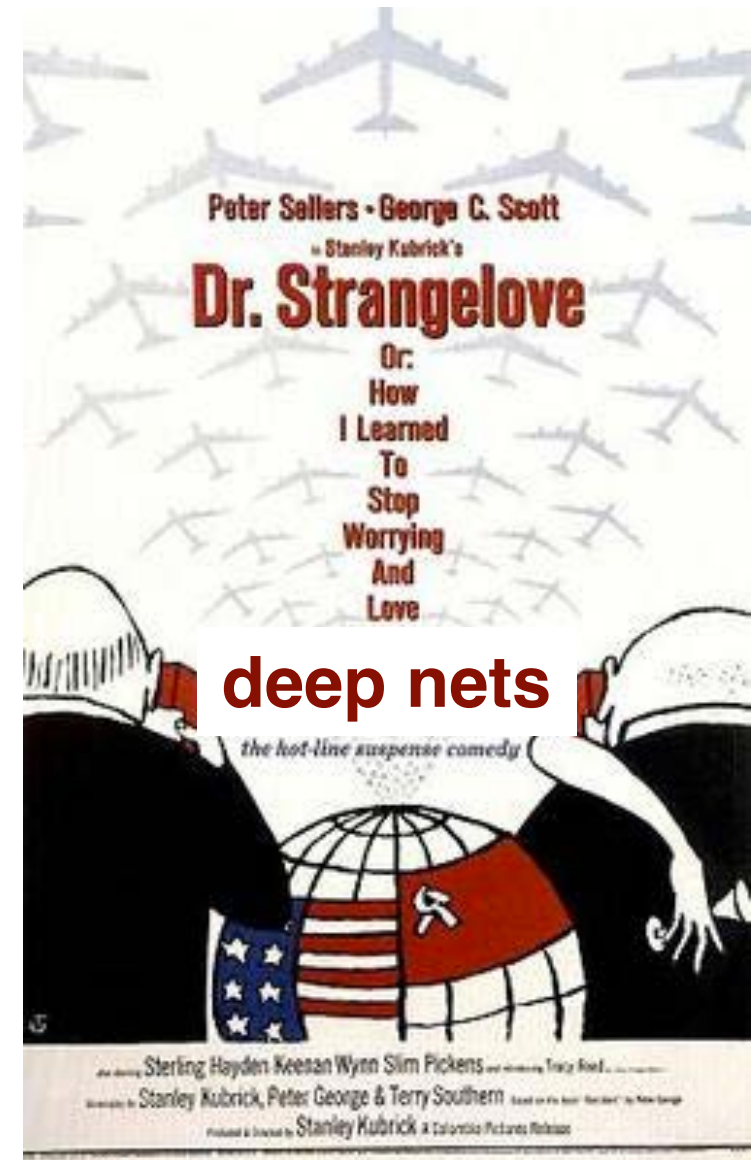
→ Much work to be done !!!!

DEEP LEARNING REVOLUTION



or

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TOPICS COVERED



Introduction:

- Definition
- Human vision
- Image formation

Extracting features:

- Contours
- Texture
- Regions

Shape recovery:

- From one image
- Using additional images

EXAM



- June 28th from 12:15 to 13:45.
- 1.5 hours.
- 1 two-sided **hand-written** A4 page of notes.

See you then