

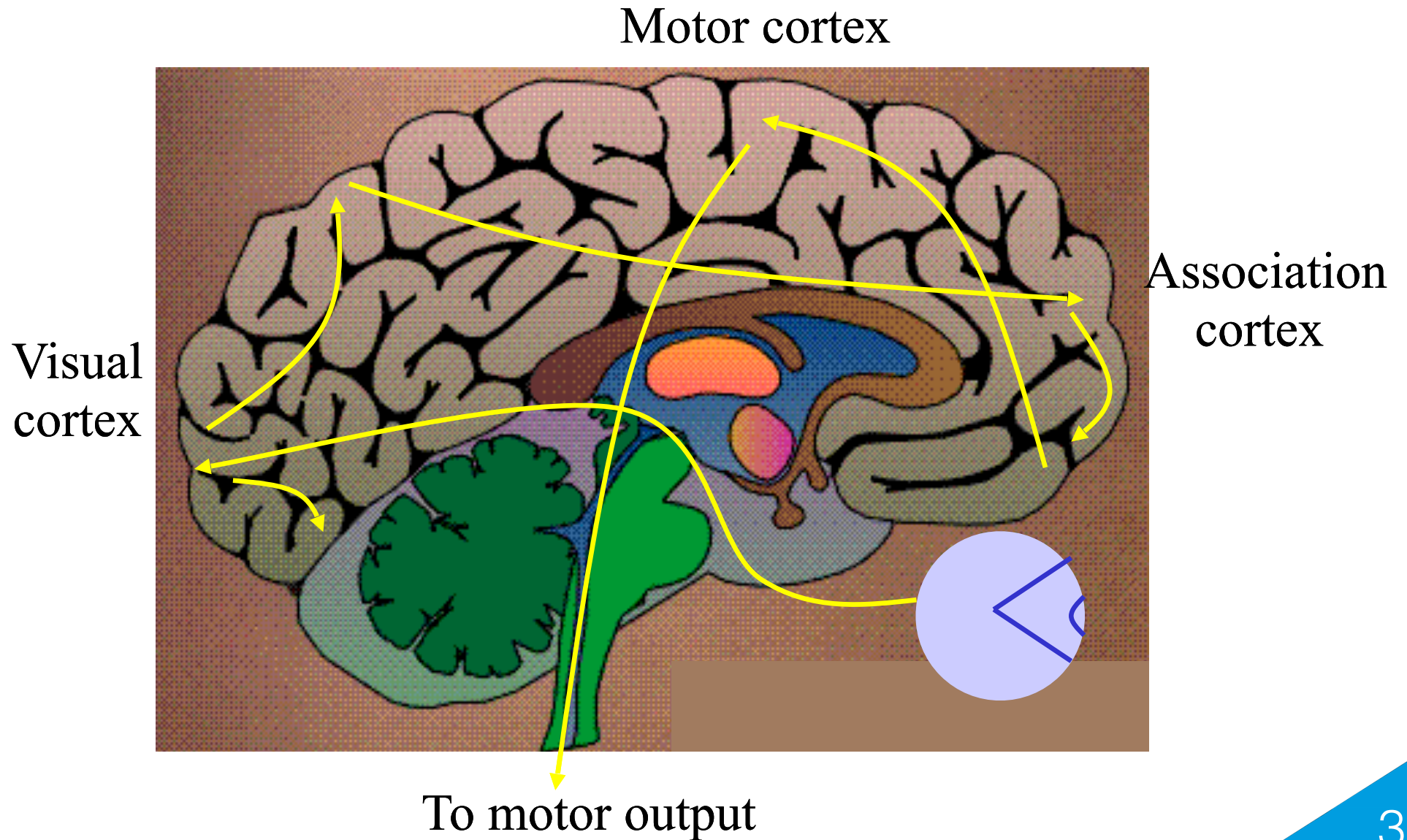
Recognize And Classify Animal -- No Animal

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:

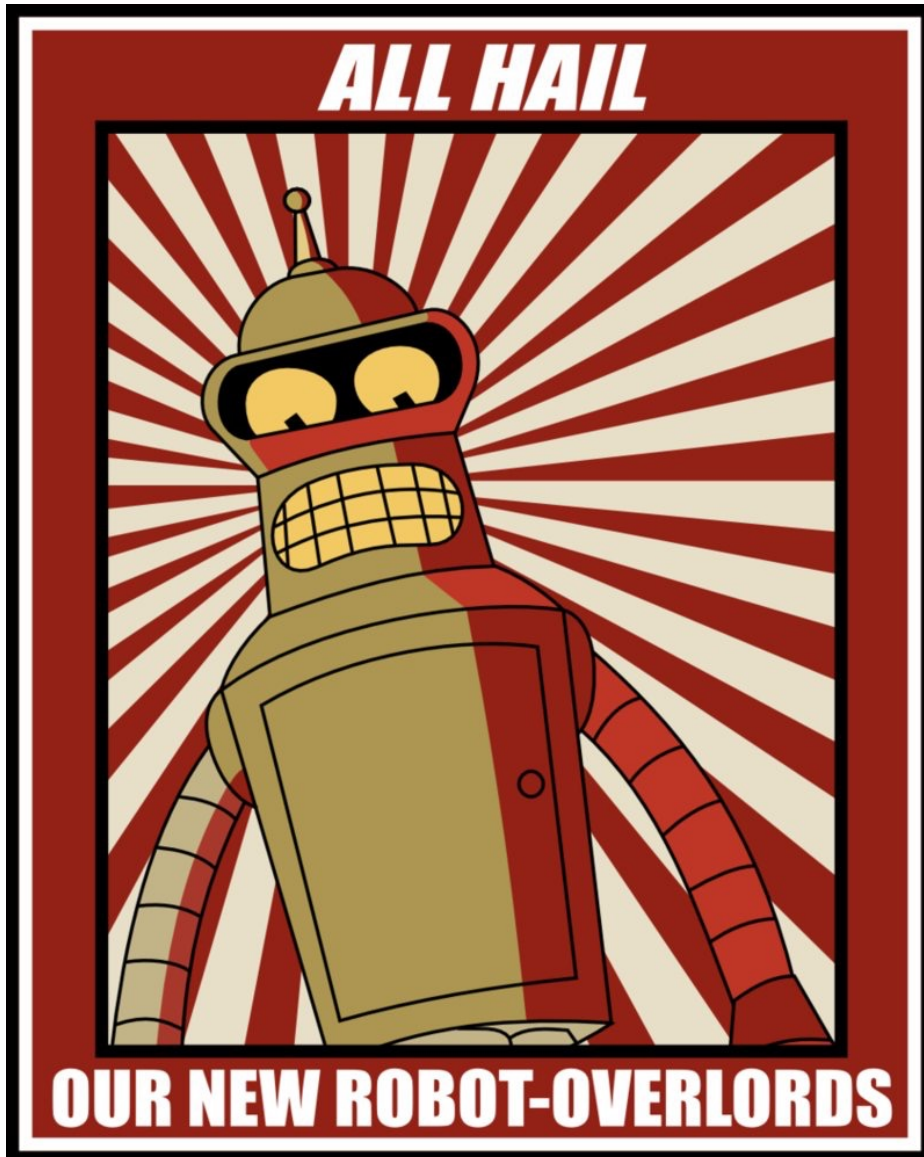
- Designing appropriate models.
- Training our algorithms effectively.

Opportunities

Cameras are becoming ever more prevalent and Deep networks have immensely boosted the performance of Computer Vision algorithms:

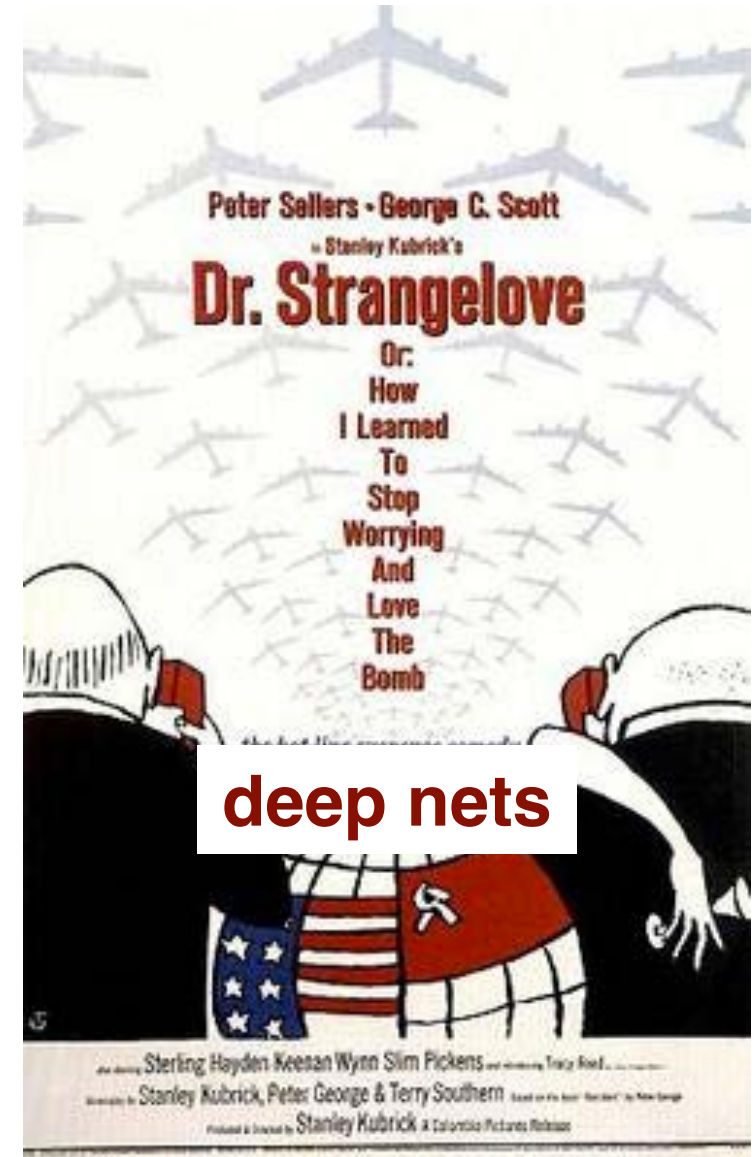
- Tremendous potential for applications.
 - A window on the way the mind works.
- But still Much work to be done !!!!

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

- In August at a time yet to be defined.
- Possibility of extra-mural exam if you **cannot** come.
- 1.5 hours.
- 1 two-sided **hand-written** A4 page of notes.
- Questions on **non-indented** slides on webpage.

See you then