Image Databases are Proliferating we need search tools
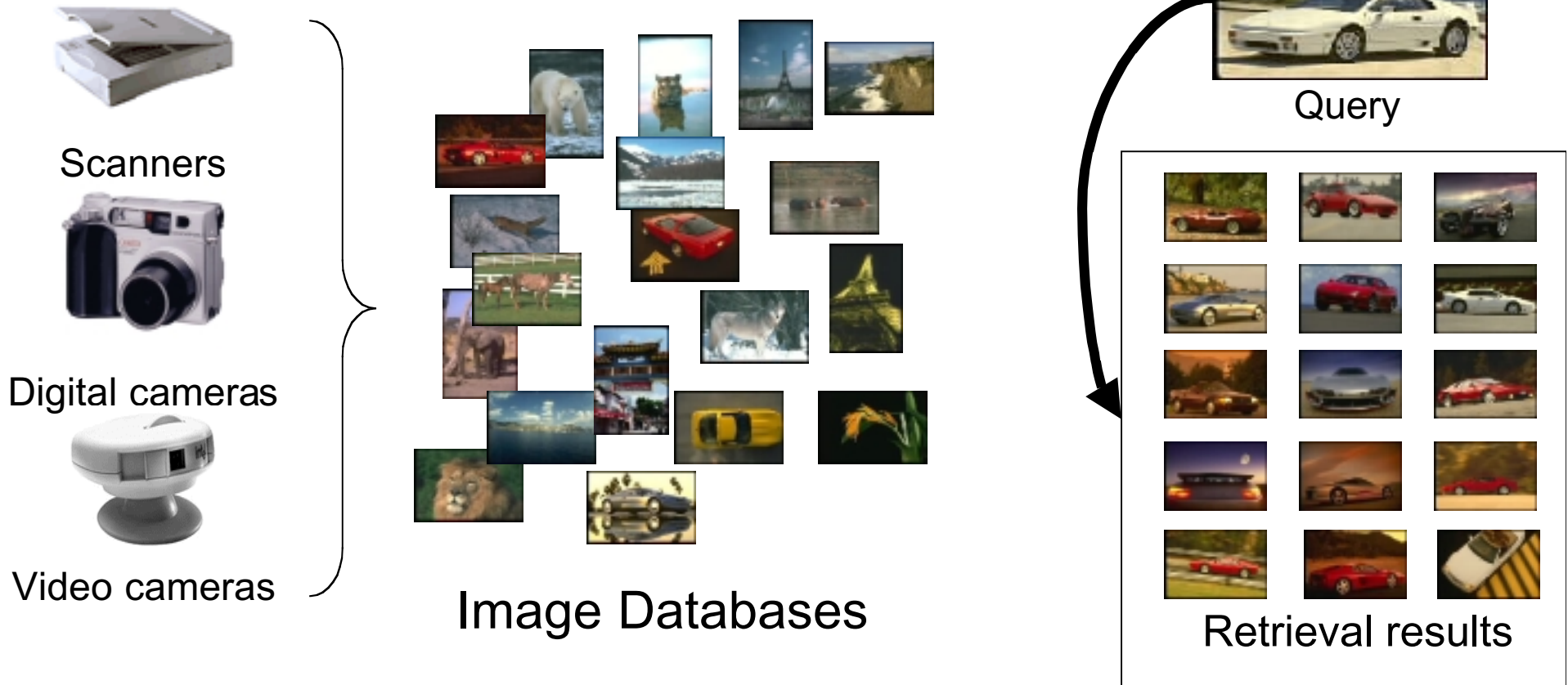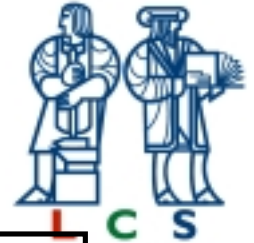

Scanners

Digital cameras

Video cameras

Image Databases

Query

Retrieval results

Progress Through June 2000

- Development of a Novel Feature Set
  – Tuned to particular objects
  – Make learning much easier
  – Radically different in form from other features.

- Use of Boosting to improve learning and to increase performance.
  – Learning can use positive and negative examples
  – Learning is very fast
  – Final query is very efficient computationally

New Features

Boosting

weak classifier 1

incorrect classifications
re-weighted more heavily

weak classifier 2

weak classifier 3

**final classifier is weighted
combination of weak
classifiers**