







Image Databases are Proliferating we need search tools



**Scanners** 



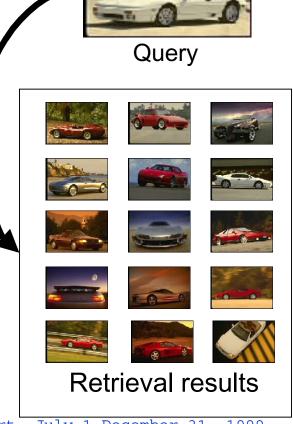
Digital cameras



Video cameras



Image Databases





## Project 9807-NTTOmage Dathase Retrielva Paul Viola





## **Progress Through December 1999**

- ¥ New paradigm for Image Database Search
  - —Pre-compute many features for each image (50,000)
  - —Perform retrieval using only those which matter most ¥ Using < 1000 features</p>
- ¥ New algorithms for face detection
  - —Using a statistical model for images
- ¥ Algorithms for document understanding & retrieval
  - Determine mathematical formula from text
- ¥ New algorithm for query learning
  - —Much faster than before uses 10 or 20 features
  - —More accurate



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## Research Plan for the Next Six Months

- ¥ Incorporate new types of Media
  - —Video and Virtual Reality
- ¥ Further refine the query learning process
- ¥ Incorporate Segmentation into image analysis
- ¥ Acquire new image databases