Yale Image Finder

- is a search engine for biomedical images
- is keyword-based
- indexes the images of the open access articles of PubMed Central
- can search the image caption and text within images

**Images Analysis and Classification**

Images are analyzed and classified:
- **Segments** of the image are recognized
- OCR is applied to segments containing text
- Images are classified as gels, graphs, plots, etc. (work in progress)
- **Semantic properties and relations** are extracted from the image (work in progress)

**Controlled English Interface**

- is a prototype of a semantic search engine for biomedical images
- uses controlled English as its query language

**Controlled English queries in Rice:**
- look natural but have a precise mapping to logic
- are matched with the extracted image models to find results (work in progress)

**Writing queries:**
- Controlled English is easy to read and understand but hard to write
- Predictive editors can solve this problem
- Users construct syntactically correct sentences in an iterative and guided way

**Benefits:**
- Existing query interfaces are either very simple (i.e. keyword-based) or too complex to be usable without training
- With Rice, complex and precise queries can be written in a natural and intuitive way
- Rice is immediately accessible to researchers interested in the results represented in images of the biomedical literature