AKTive Media - Frontend
- Ontology based image annotation. Annotation of whole, part or set of images using existing or user defined ontologies
- Image Search facility (SPARQL based)
- Retrieve images with equivalent content
- Integration with web services
- Time line generation for image exploration
- RDF import and export facility
- Simultaneous multi-user annotation

PhotoCopain – Backend
- Semantic Logger (Context): Creating a SPARQL compliant autobiographical log to facilitate context-based services.
- Image analysis software (Content)
  - Indoor/Outdoor detector
  - Face detector - size and number of faces, portrait
  - Focus Detector - feature vector for classification
- The tags presented by the content based services are based on images taken from flickr
- Clustering is performed on the image features to propose tags to the end user.
- Collation service - combines results and outputs RDF, which is then sent to AKTive Media for further annotation.
- mSpace faceted browser available to navigate annotations

Motivation
- Manage the storm of images people currently create
- Identify easily accessible image content and contextual data in order to facilitate image annotation
- Intended as a contribution both to the Semantic Web and Memories for Life
  - Facilitate the meta-data provision for large image data sets
  - Enable the diachronic annotation of digital images which have long term personal and historical significance

INPUT: As much information as possible from free or readily available sources:
1. Image internal data:
   - A simple CIELab colour-map, Hue, Intensity, texture map (HIT), an Edge Direction Coherence Vector, EXIF, & a focus map
2. Image external data
   - Calendar Information, GPS Information, Network Access Info, Email’s, Multimedia Playlists, etc

PURPOSE: To aid the user by
- Maximising effective use of effort when annotating
- Allow user to provide both isolated facts and to construct a narrative
- Integrates a number of heterogeneous data sources, to provide contextual metadata (calendar, gps, internet activity,...) and content based metadata (portrait, landscape, artificial depiction,...)
- The semi-automatic nature of the service is stressed, identifying the need to allow the user to author any proposed annotation, highlighting the “Gold standard” of any manual annotations.

Further Information
- AKTive Media – Downloadable Fronted
- Semantic Logger & Photocopain – Personal Context log, and Image Annotator
  - http://akt.ecs.soton.ac.uk:8080/