OntoGather
Information Gathering in a Dynamic World

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June 11, 2006
Classic Web search engine approach:

1. Crawl the Web in intervals
2. Transform new content to internal representation
3. Build up index based on internal representation
4. Search via index structure

Possible queries:

What is the capital of Montenegro?
What is the price of a Canon Ixus digital camera?

What about:

What is the cheapest price of a Canon Ixus digital camera at the moment?
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OntoGather approach:

1. Infer appropriate resources based on domain knowledge base
2. Access relevant resources
3. Transform results to internal representation
4. Infer relevant results
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1. Infer appropriate resources based on domain knowledge base
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Pro:
- Up-to-date content
- Domain knowledge can be used to constrain the answer set

Con:
- Speed?
- Need domain knowledge base with mapping to resources
Implementation:

- Inference Engine: Florid
- HTML access & conversion to F-Logic facts: ViPER
- Communication Interface: JSP & Java

```
Class: digital_camera
Ontology properties: price, name=“IXUS”, model
Result properties: price < 270, model

#         price              model                           source
1          269            Digital Ixus 60

http://www.amazon.de
```

Gather!