Camcrawler

Webcam Search Engine

Ricky Bargreen, Flavio Pfaffhauser, Forrest Vines, Yih Sun Khoo

Project Overview

Initial Idea:

- Crawl the web, download pages containing webcams
- Classify pages
- Extract data from webcams
 - location
 - video type
 - description
- Web-based search interface

Final Project:

Same as initial idea...

Project Components

Crawler

- Nutch
- Start from seeds
- Download tons of pages

Classifier

- Keyword Filter (good and bad)
- Rule based classifier (image tags)
- Mallet-based classifiers

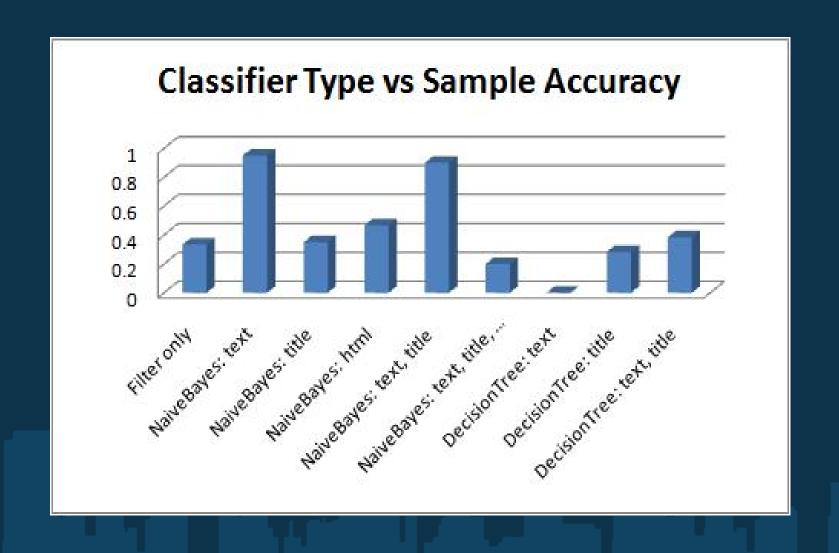
Extractor

- Location information
- Webcam image, description

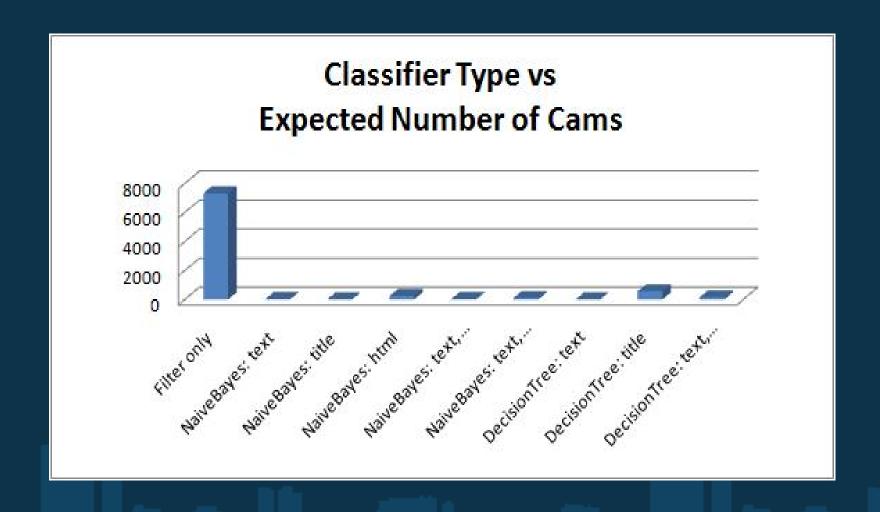
Interface

• Camcrawler Demo

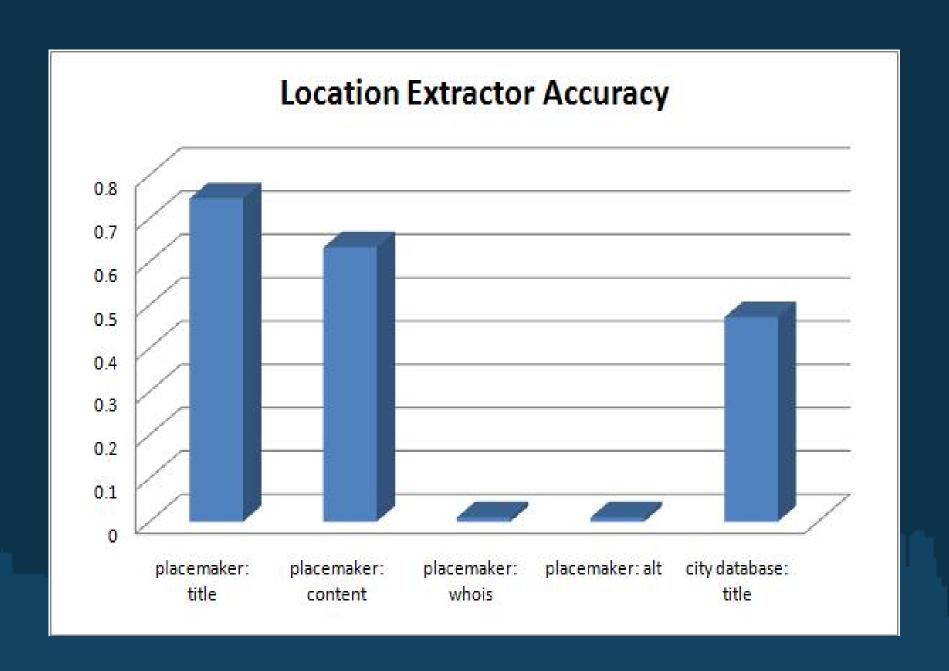
Evaluation: Classifier



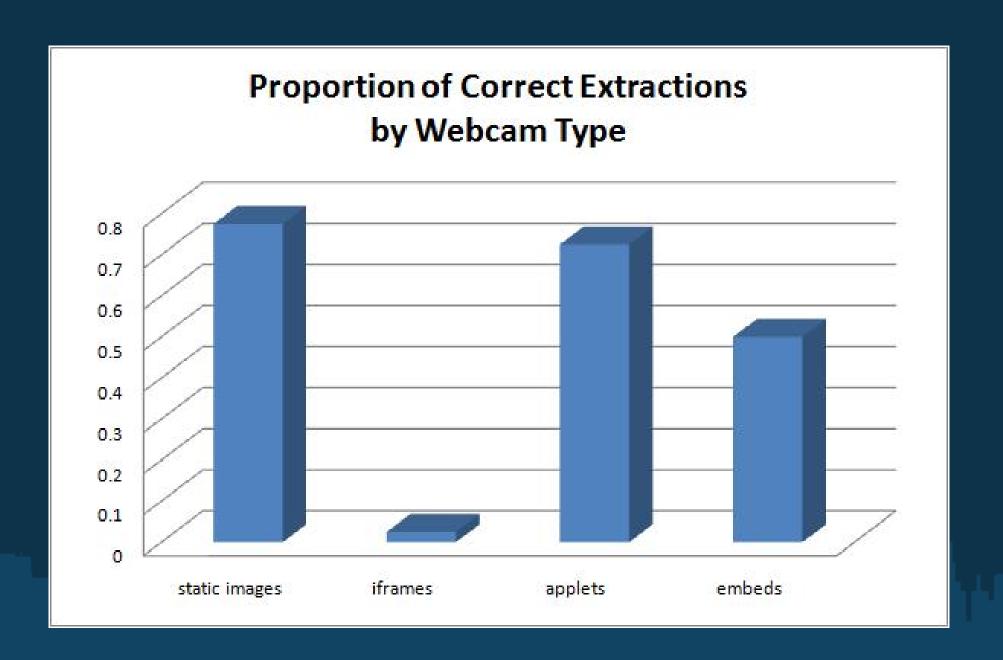
Evaluation: Classifier



Evaluation: Location Extractor



Evaluation: Webcam Extractor



Lessons Learned

Crawler

- Requires lots of drive space
- Easily "wanders off"
- Need much more crawl data for more webcam results.

Classifier

Keyword based classifiers not helpful

Extractor

- Location extraction on title is a good classifier
- "whois" proofed to be unreliable
- iframes are unreliable sources of webcam feed

Division of Labor

Ricky Bargreen:

URL Fetcher, Location Extractor, Webcam Extractor, UI

Flavio Pfaffhauser:

URL Fetcher, Crawler, Filter, Location Extractor

Forrest Vines:

Crawler, Rule-based Classifier, Mallet Classifiers

Yih Sun Khoo:

Filter, Rule-based Classifier, Webcam Extractor, UI