



Virtual Dave Lankes Presentation

<http://www.DavidLankes.org>

TITLE: Building DREW

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ABSTRACT: The goals of the DREW project are to: create a schema useful in archiving components of a reference transaction in a standardized manner; work with services to turn their archives into the DREW format; collect, clean, and remove personally identifiable information; create an exploration space for library scientists to create new models, measures, reports, and generalizations about the reference process; and create the infrastructure to allow services to directly benefit from the models the researchers create. Both librarians and researchers will learn how they can participate in the collaborative DREW project.

KEYWORDS: Virtual reference, digital reference, libraries, data warehouse, knowledge base, research



Building DREW

A Data Warehouse for Digital Reference



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<http://DREW.syr.edu>



Overview

Context of DREW: A Broadening View of Digital Reference

Concepts in DREW's Development

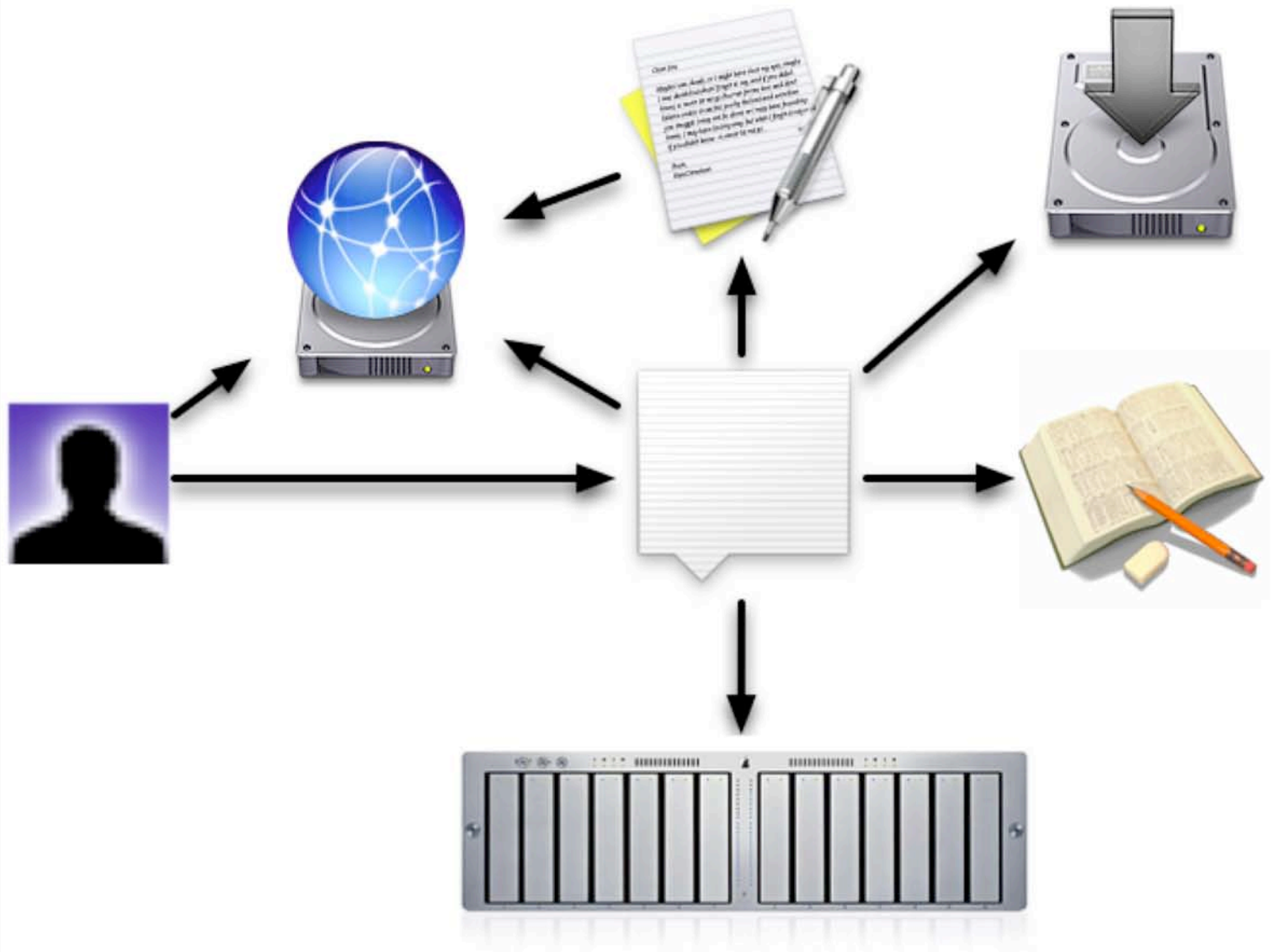
Applications of DREW

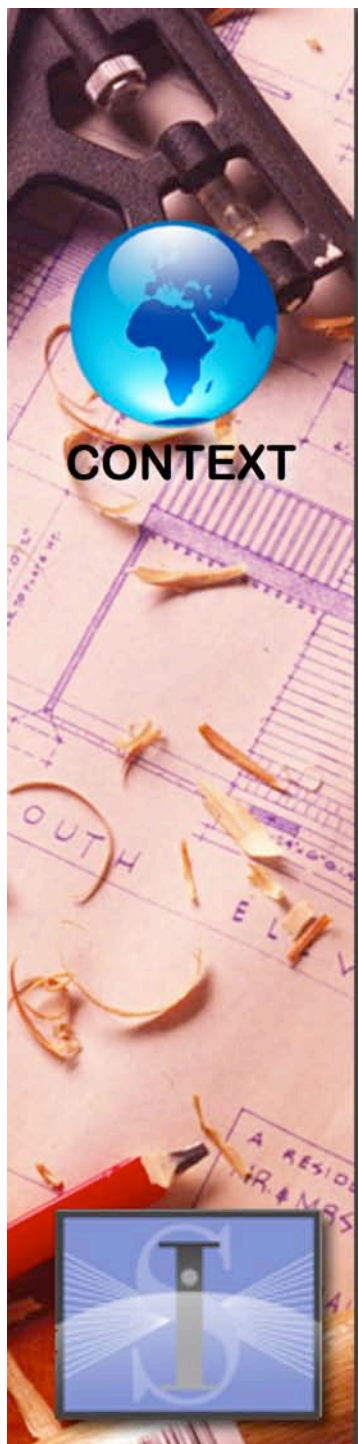


Context

- Digital Reference (Virtual Reference) Started with a Necessary Overemphasis on Human Intermediation
- Lead to Near Exclusive Emphasis on Numbers and Process
- Now We Need to Reintegrate Reference

Integrated Model of Dig_Ref





Myth of Useless Knowledge Base

- Many Say Knowledge Bases of Digital Reference Transactions are Useless
 - Too Much Editing Effort
 - Unstable URL Pool and Fact Shifting
 - Context Dependent Nature of Questions
- Truth
 - Too Early to Say
 - Little Research on Utility of Knowledge Bases
 - Imprecise Terminology
 - Ignores the Obvious Utility of Data Stores of Digital Reference Data
 - Statistics, Reporting, Management, Training



What is DREW

- A Large-Scale Repository for:
 - Raw Digital Reference Data
 - Technologies & Policies to Control Access for Research and Practice
 - Shared Repository of Open Tools for Research and Exploration of Digital Reference Data
- Vital Infrastructure for the Advancement of Digital Reference Research in General
 - Question Trends, Citation Patterns, Reference Encounter
- Platform to Examine Reference Authoring and Knowledge Bases in Particular

Levels of Digital Reference Data

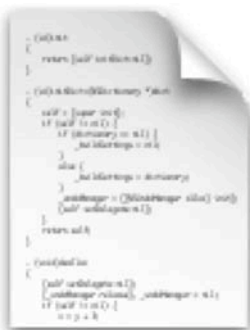
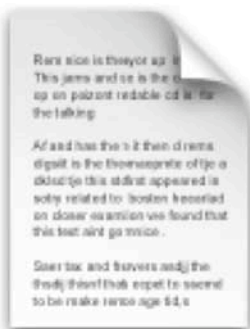
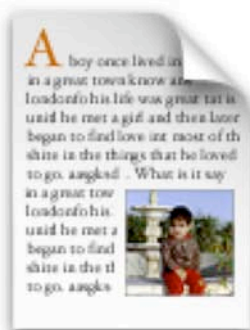
Human Editing = Knowledge Base

Automated Cleaning = Archive

Raw = Data Warehouse



CONCEPTS



A boy once lived in
in a great town known as
London in his life was great, but it
until he met a girl and then later
began to find love not most of th
shire in the things that he loved
to go, angled. What is it say
in a great tow
London h
until he met
began to find
shire in the t
to go, angled

Rare mice in these groups are the same and are in the same up on parent redshift in the following:

Ad and has the 1:1 then dromedary is the first one of the 1:1 group. This shift appeared in only related to Boston. Based on closer examination we found that this test did give rise.

Genetic and Harvey and the study showed that, except in some to be make sense age 14.

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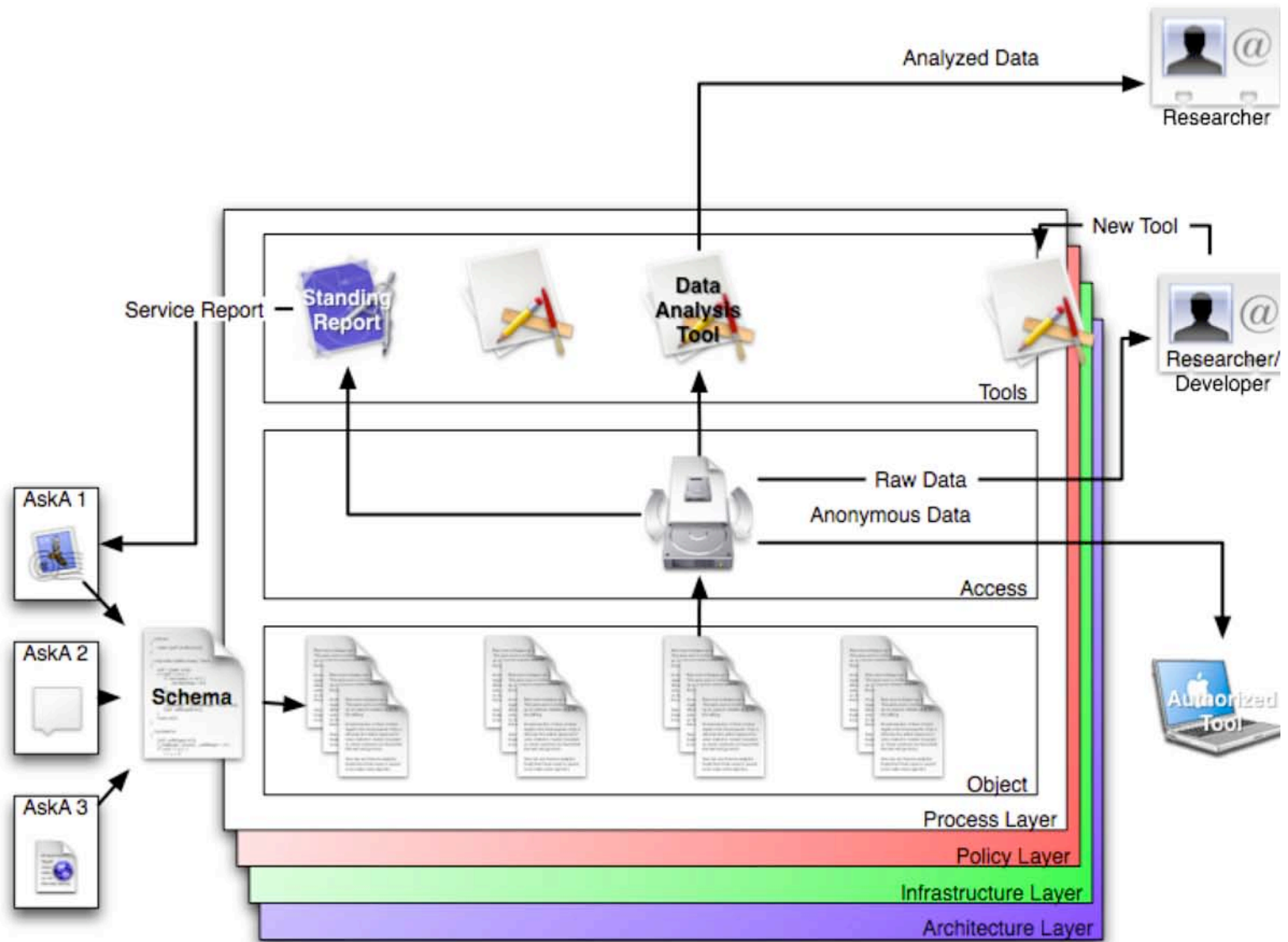
1  (self.m < 0)
2  {
3      return [self.m to:0];
4  }
5
6  (self.m < 0 && [self.m to:0] == 0)
7  {
8      self.m = [self.m to:0];
9      if ([self.m to:0] == 0)
10         _out << "to 0\n";
11     else
12         _out << "to: 0 is necessary\n";
13     _out << "([self.m to:0] == 0)";
14     return self.m;
15 }
16
17 (void)*self.m;
18 {
19     [self.m to:0];
20     _out << "([self.m to:0] == 0)\n";
21     if ([self.m to:0] != 0)
22         _out << "0\n";
23 }

```

DREW

DREW Overview

CONCEPTS





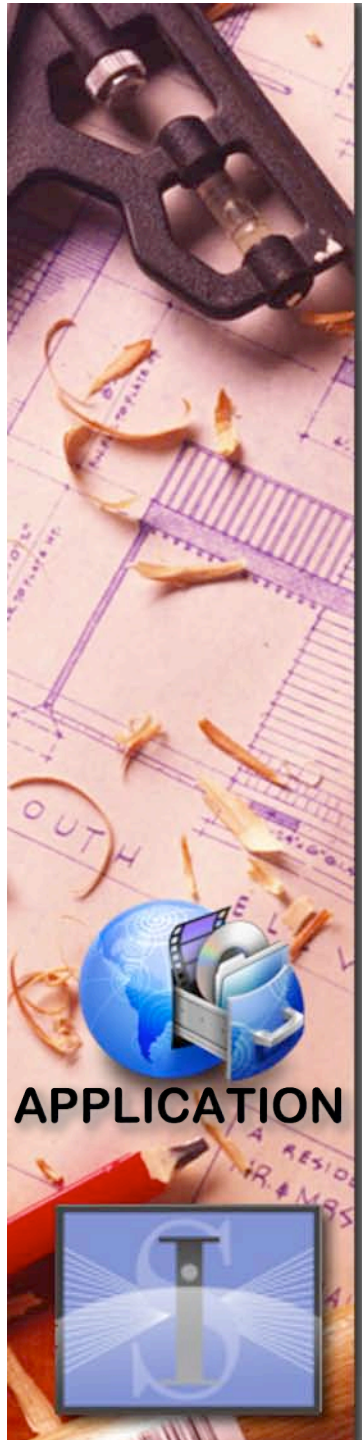
Practical DREW Applications

Operational

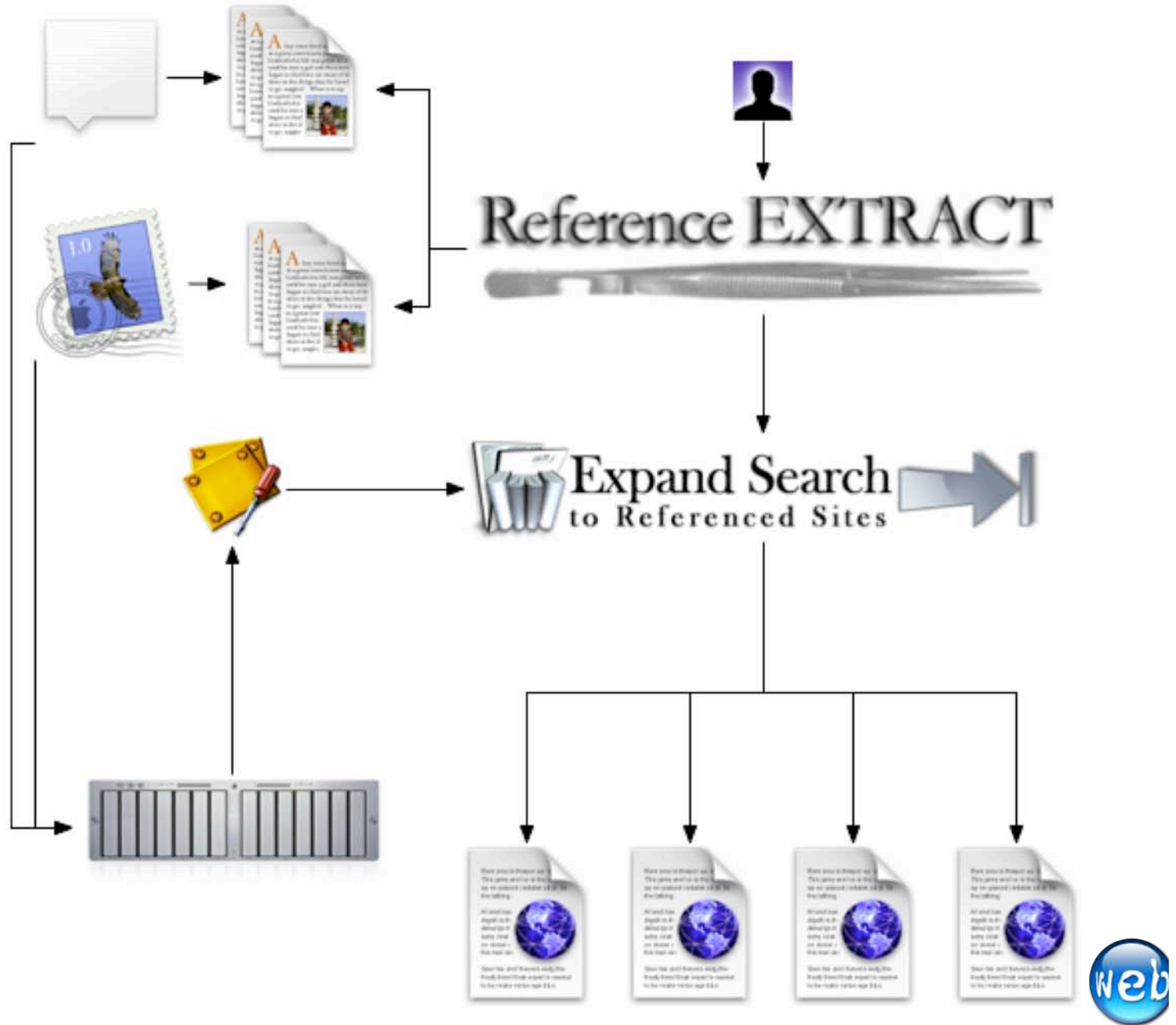
- Basic Reporting
 - Questions, Interactions, Time, Cited Resources
- Cited Resources and Collection Utilization
- Cross-Service Benchmarking

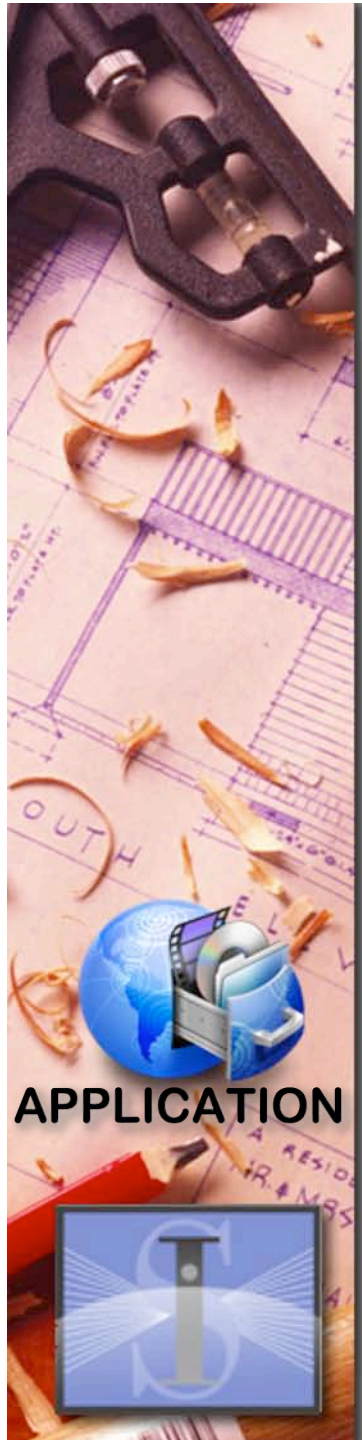
Research

- Random Sample of Transcripts
 - By library type, by service mode, longitudinally
- “Anonymizing” Through Natural Language Processing and Machine Learning
- Classification Tools
- Aggregation Statistics Cross-Service

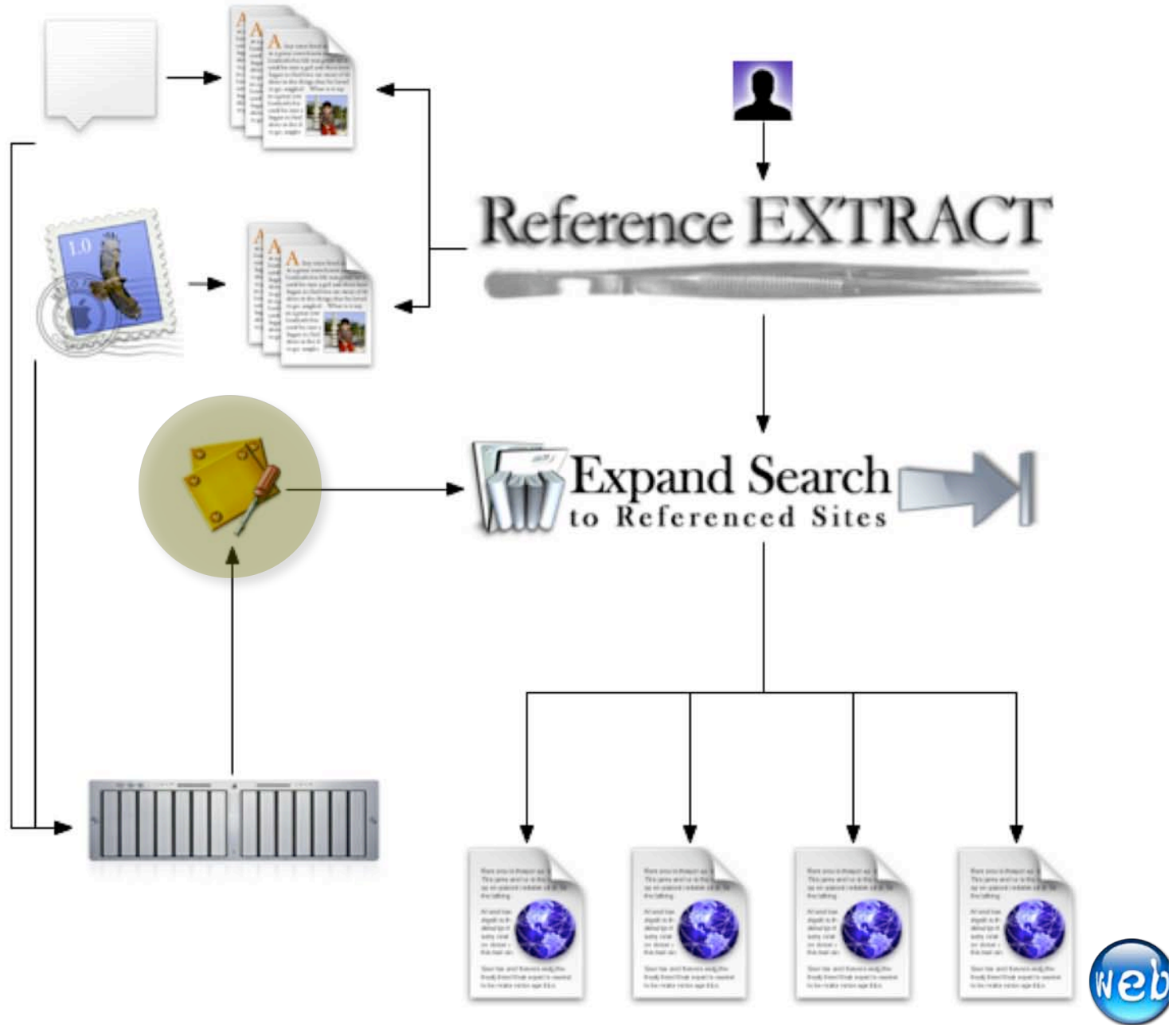


DREW Application





DREW Application





Conclusions

- Vital Infrastructure for Research and Management in Digital Reference
 - Useful Data, Easy to Use
- Model of Integration of Research and Practice
 - Building a Community of Data, Tool Building and Exploration
- Part of an Integrated View of Digital Reference
- Beginning an Exploration of Reference Authoring



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Slides and More Information