Building AltLaw.org



Stuart Sierra
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http://columbialawtech.org/

A long time ago in a galaxy far, far away...

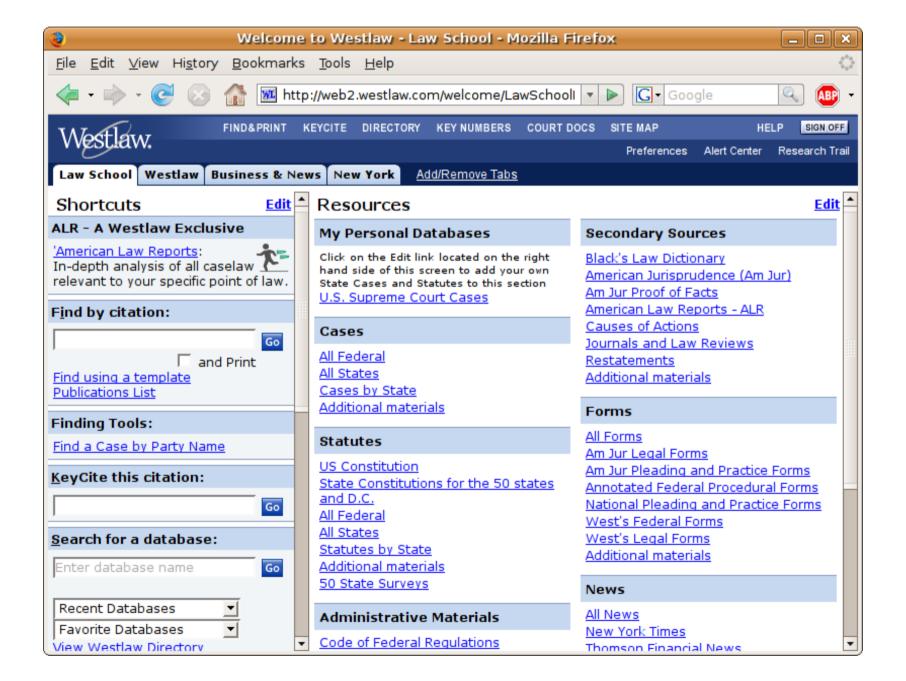
ProjectPosner.org



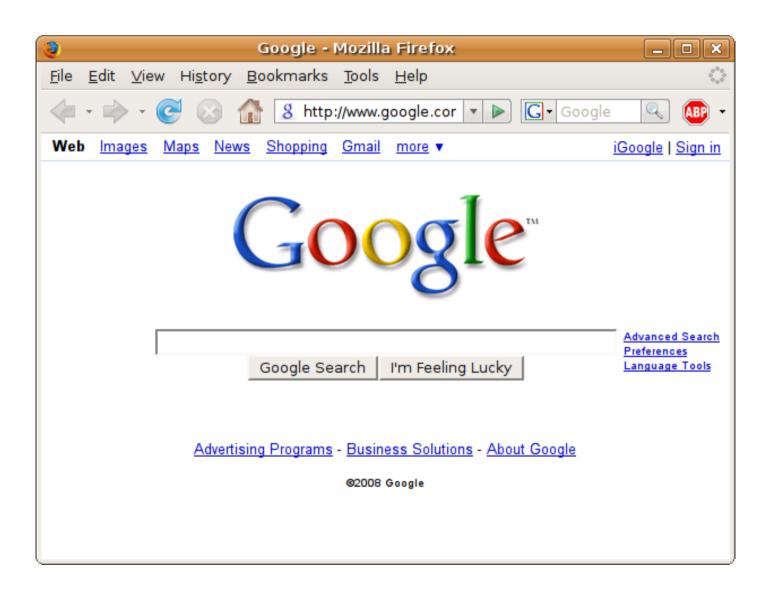
Tim WuProf. of Law, Columbia University
Former Posner clerk



That Was Then



This Is Now



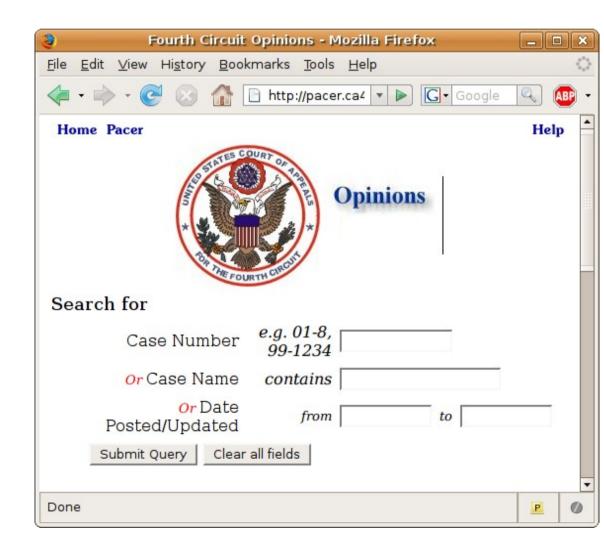
"Making the Common Law a bit more common."

Crawling Court Web Sites



Paul Ohm, U. of Colorado Law School http://paulohm.com/

http://www.supremecourtus.gov/http://www.ca1.uscourts.gov/http://www.ca2.uscourts.gov/http://www.ca3.uscourts.gov/http://www.ca4.uscourts.gov/http://www.ca5.uscourts.gov/http://www.ca6.uscourts.gov/http://www.ca7.uscourts.gov/http://www.ca8.uscourts.gov/http://www.ca9.uscourts.gov/http://www.ca10.uscourts.gov/http://www.ca11.uscourts.gov/



A Little Help From Our Friends



http://www.law.cornell.edu/



http://justia.com/



http://bulk.resource.org/courts.gov/

Building a Search Engine

Easy, right?

altlaw.org, Take 1

Web server

Apache

Application





Database & Search





You don't need a database

Any Java servlet container, e.g.



- Caching
- Maintains pool of Lucene threads
 Tokenization, stemming, synonyms



altlaw.org, Take 2

Web server

Apache

Application



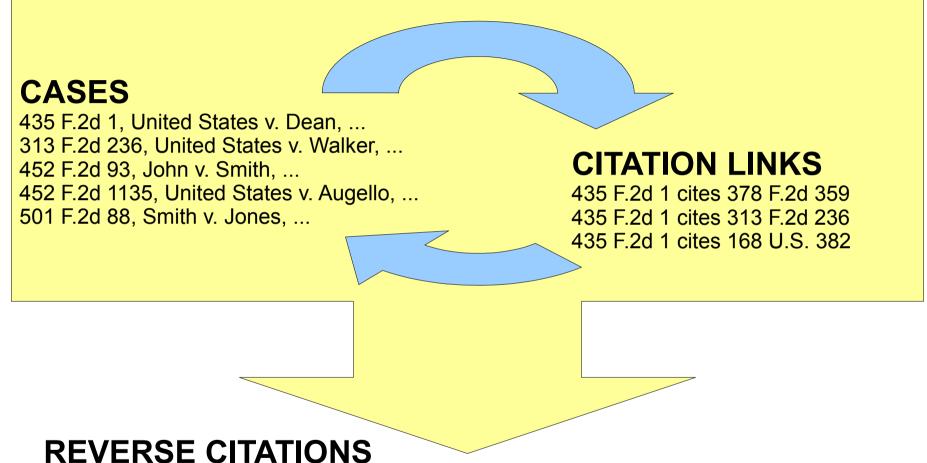


Database & Search



Big Data, Big Love

The Big Join



435 F.2d 1 is cited by U.S. v. Chagra, 669 F.2d 241 435 F.2d 1 is cited by U.S. v. Haley, 452 F.2d 391

How *not* to process a million documents





Berkeley DB



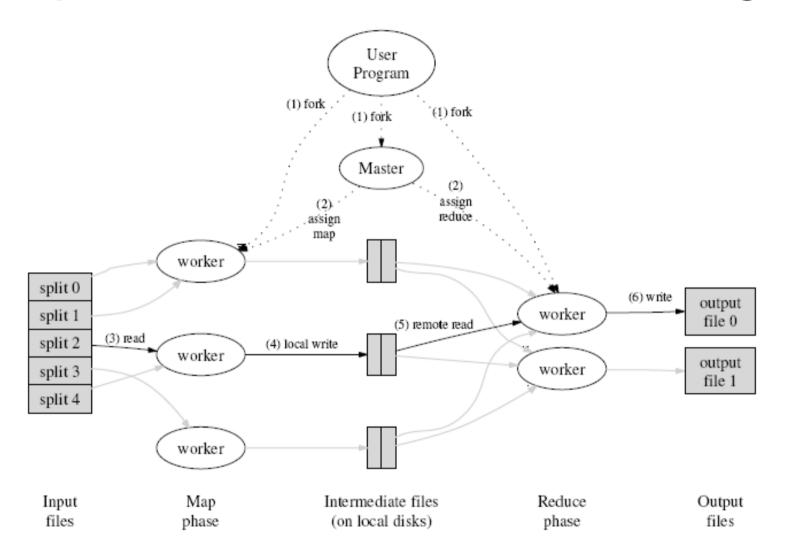








MapReduce: it works for Google...

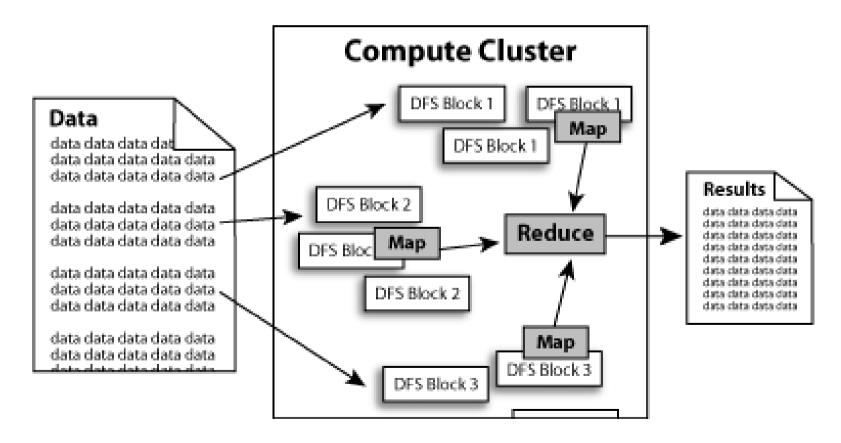


http://code.google.com/edu/parallel/

Hadoop: it works for Yahoo...



http://hadoop.apache.org/



AWS: it works for Amazon...



http://www.amazon.com/gp/browse.html?node=3435361

- Elastic Compute Cloud (EC2):
 \$0.10 per hour, per machine
- Simple Storage Service (S3):
 \$0.15 per GB, per month

Issues

(We've all got them.)

Medium-Neutral Citation

- West: 123 F.2d 456
- public.resource.org:
 4.F3d.26.93-1236.93-1171.html
- AALL Universal Citation Guide: 1989 US App. (4th) 104 ¶ 52 http://www.aallnet.org/committee/citation/ucg/
- court + date + docket
- AltLaw: http://altlaw.org/v1/cases/685561

Ideal Neutral Citation

- unique
- unchanging
- medium-neutral
- discernible from the case text alone
- available as soon as case is decided
- public-domain
- machine-readable

Privacy

- "Almost the only results on Google now for my mother's name are your site She has been applying for new jobs lately, and I have no doubt that this has hurt her prospects."
- "[W]e have received several threatening message regarding the materials you have put at your website regarding our case. ...
 This materials needs to be remove from your website ASAP."
- "This serves no purpose but to open up my own ancient history via the search engines and cause me to suffer unduly all over again. ... I stumbled into a business opportunity that lasted only 7 months in 1987, and it spiraled into a Kafkaesque nightmare"
- Policy: http://altlaw.org/v1/about/why

The Future

- More cases
 (district courts, state supreme courts, ...)
- PageRank applied to citations
- Accept corrections
- Commentary from legal scholars
- More research tools

LawCommons.org



The free legal search engine — over 700,000 documents.

Enter a case name, citation, or key words and phrases:

questions?

search cases

search codes

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