

Ravel Law

April 9, 2015

ANALYTICS

LEGAL SEARCH

VISUALIZATION

Daniel Lewis
CEO & Co-founder

RAVEL

The challenge in law

“We are drowning in information, while starving for wisdom.”

Legal information is
growing and scattering

- > ~11m opinions in US system
- > 350,000+ new opinions / year
- > Explosion of secondary material

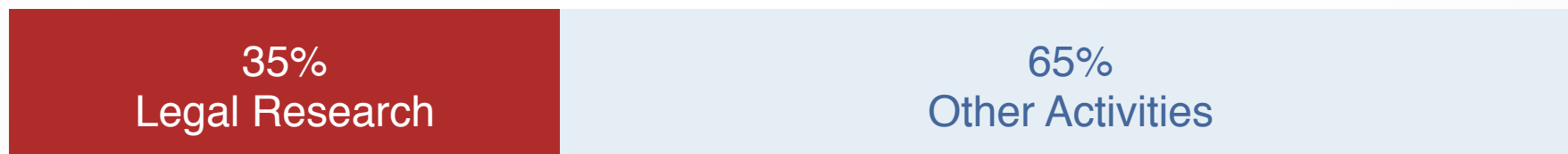
35% of junior associate
time is spent on research

- > **Risks**
 - Miss critical information
 - Reach wrong conclusion
 - Lose respect of client or judge
- > **\$1,000,000+ cost** in write-offs and overhead

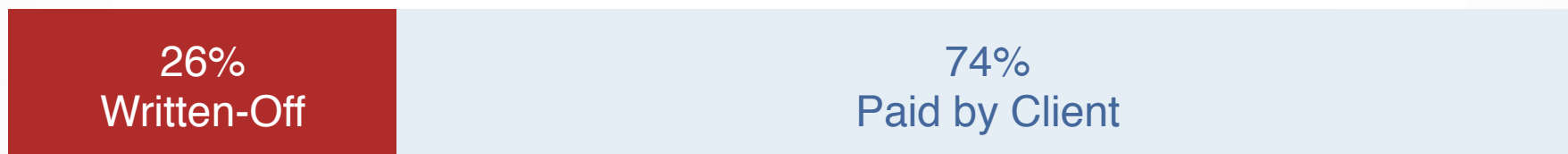
Time study by Steven Lastres of Debevoise & Plimpton, “Rebooting Legal Research in a Digital Age”

Research write-offs alone are a multi-million dollar issue

How do associates spend their time?



How much research time is written off?



What does that mean financially?



Source: Blue Hill Research

Analytics create a competitive advantage

Data analytics and technology are creating competitive edges in fields traditionally treated as more art than science: sports, politics, journalism. Law?



“85 percent of the teams don't know what to do with this data . . . [It will revolutionize the NBA if] they awaken really quickly to things like machine learning and data visualization.” – *Wired*



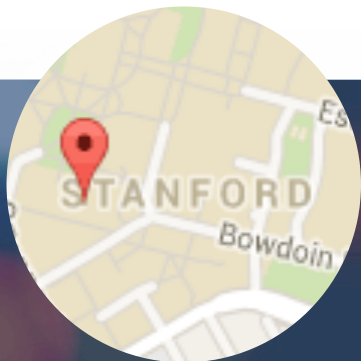
“There is both a need for more data journalism and an opportunity to build a business out of it.” – *Nate Silver, FiveThirtyEight*



“Previous campaigns would make decisions about how to direct their television-advertising budgets largely based on hunches and deductions . . . The 2012 [Obama] campaign took advantage of . . . technology” – *New York Times*

Ravel's background

Spun out of Stanford Law, Computer Science, and d.school research



Led by Stanford attorneys

Advisors include:

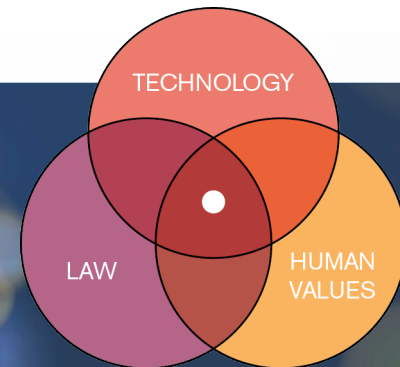
Larry Kramer & Jonathan Zittrain



Data Mining

Machine Learning

Natural Language Processing



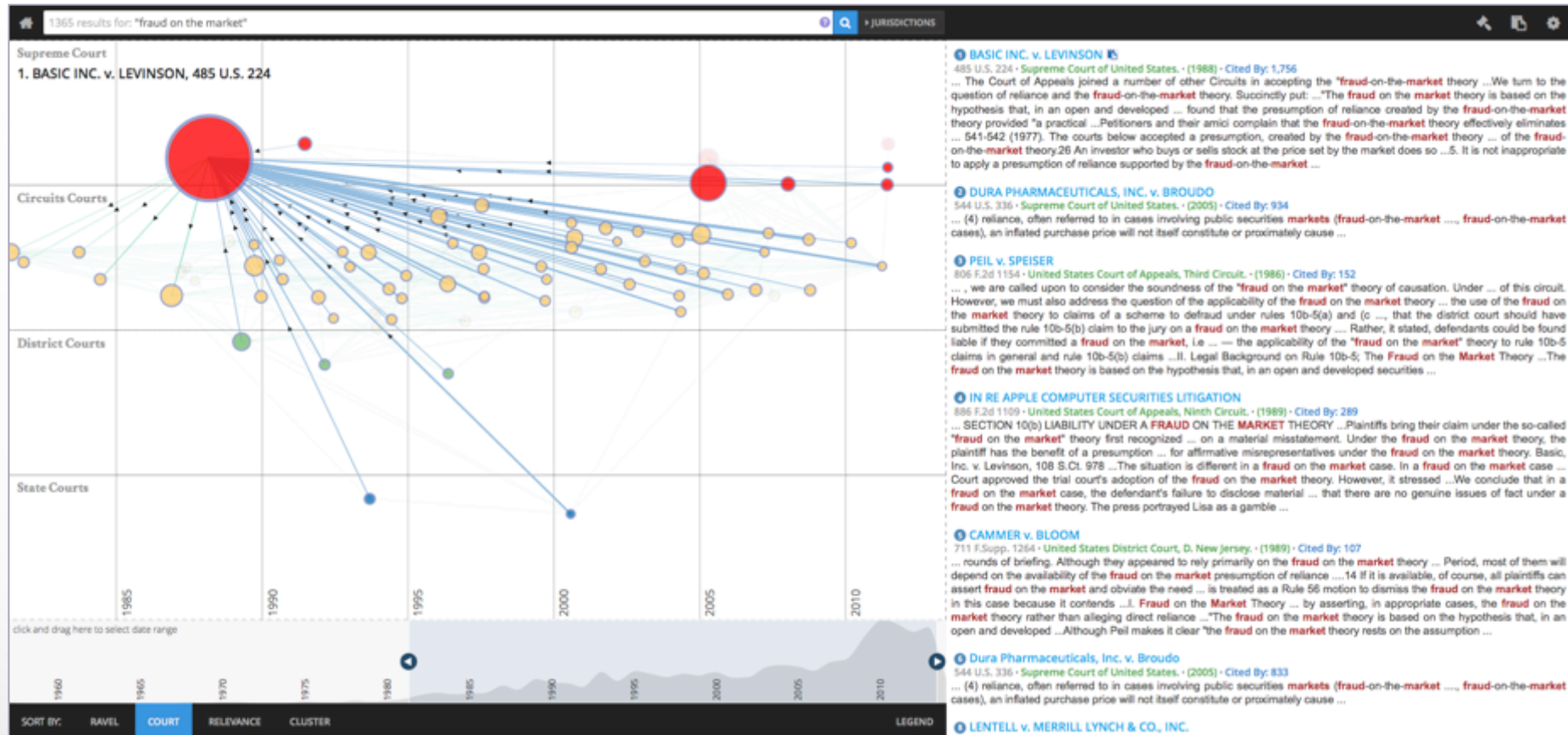
Data Visualization

Multi-Disciplinary Team

Modern Information Design

RAVEL

Maps identify major cases & needles in the haystack



Insights from thousands of cases, instantly

Enter keywords, case name, or case number

JURISDICTIONS

How this case has been cited:

★★

p.390

“ Prior to the 1976 revision, the Court had determined that the retransmission of distant broadcast signals by cable systems did not subject cable operators to copyright infringement L...”

CAPITAL CITIES CABLE, INC. v. CRISP, 467 U.S. 691, United States Supreme Court (1984)

HUBBARD BROADCASTING, INC. v. SOUTHERN SATELLITE SYSTEMS, INC., 777 F.2d 393, Eighth Circuit (1985)

NAT'L ASSOC. OF BROADCASTERS v. LIBR. OF CONGRESS, 146 F.3d 907, D.C. Circuit (1998)

click to expand 35 similar citations

“ The Court reasoned that the cable television function of enhancing the subscriber's capacity to receive broadcast signals, irrespective of the distance between the subscriber and the...”

ORTH-O-VISION, INC. v. HOME BOX OFFICE, 474 F.Supp. 672, Southern District of New York (1979)

CASS COUNTY MUSIC CO. v. VASFI MUEDINI, 821 F.Supp. 1278, Eastern District of Wisconsin (1993)

BROADCAST MUSIC, INC. v. CLAIRE'S BOUTIQUES, INC., 949 F.2d 1482, Seventh Circuit (1991)

click to expand 39 similar citations

see 13 other citations:

AMERICAN BROADCASTING COMPANIES, INC. v. AEREO, INC., No. 13-461, United States Supreme Court (2014)

AMERICAN BROADCASTING COMPANIES, INC. v. AEREO, INC., No. 13-461, United States Supreme Court (2014)

MOTION PICTURE ASS'N OF AMERICA, INC. v. OMAN, 750 F.Supp. 3, District of Columbia (1990)

click to expand 13 citations

FORTNIGHTLY CORP. v. UNITED ARTISTS

FORTNIGHTLY CORP. v. UNITED ARTISTS TELEVISION, INC.

392 U.S. 390


No. 618.

Supreme Court of United States.

Argued March 13, 1968.

Decided June 17, 1968.

Cited By 94 Cases



CERTIORARI TO THE UNITED STATES COURT OF SECOND CIRCUIT.

Robert C. Barnard argued the cause for petitioner. With him on the brief were Michael Duncan and E. Stratford Smith.

Louis Nizer argued the cause for respondent. With him on the brief were Gerald Meyer, Gerald F. Phillips, and Lawrence S. Lesser.

Solicitor General Griswold filed a memorandum for the United States, as amicus curiae.

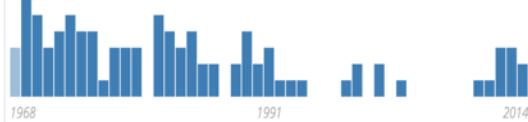
Bruce E. Lovett filed a brief for the National Cable Television Association, Inc., as amicus curiae, urging reversal.

Briefs of amici curiae, urging affirmance, were filed by Warner W. Gardner, William H. Dempsey, Jr., and Douglas A. Anello for the National Association of Broadcasters; by Ambrose Daskow for Broadcast Music, Inc.; by Michael Finkelstein for the All-Channel Television Society; by Irwin Karp for the Authors League of America, Inc.; by Herman Finkelstein, Simon H. Rifkind, Jay H. Topkis, and Paul S. Adler for the American Society of Composers, Authors and Publishers; by Paul P. Selvin and William Berger for the Writers Guild of America et al., and

PRINT

Citation history:

3 opinions cite this case in 1968



1968 1991 2014

1968

TV PIX, INC. v. TAYLOR, 304 F.Supp. 459, District of Nevada (1968)

CITY OF N. Y. v. COMTEL, INC., 57 Misc.2d 585, New York State Courts (1968)

BLACK HILLS VIDEO CORPORATION v. F. C. C., 399 F.2d 65, Eighth Circuit (1968)

Judge Analytics

The first and last research question: how will *our* judge rule?



Current tools are insufficient

OPTIONS

OUTCOMES

Firm-wide email asking for intel

20% Respond with what they know
80% Don't respond.

Use court's website

Limited information available

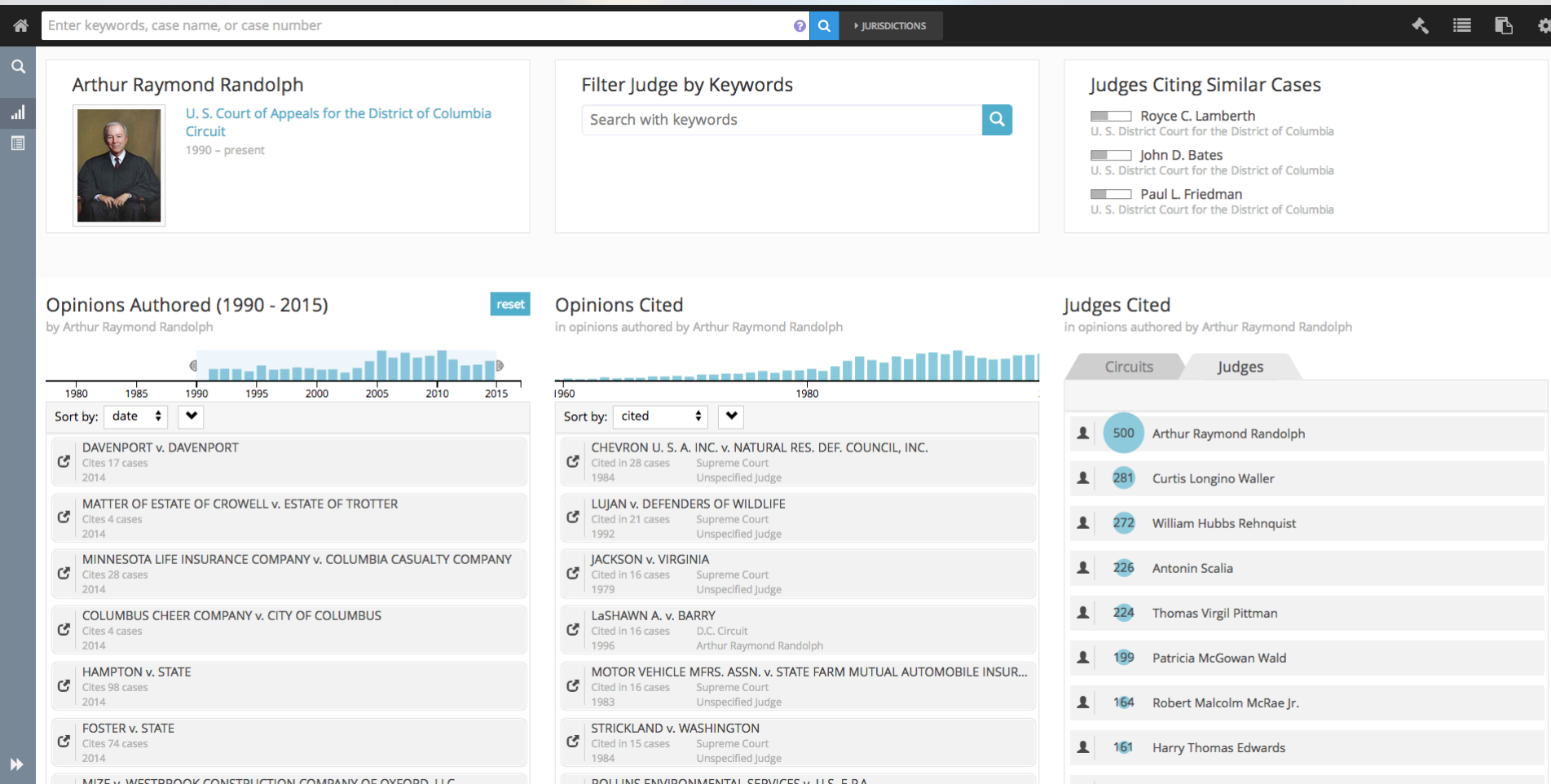
Review every opinion manually

**Time consuming, expensive,
lacks analytics**

Hire former clerks

Finite and expensive resource

Ravel's Judge Analytics



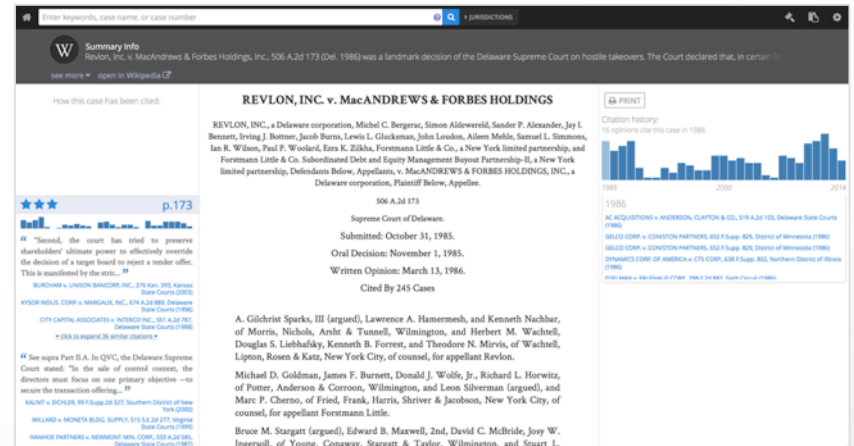
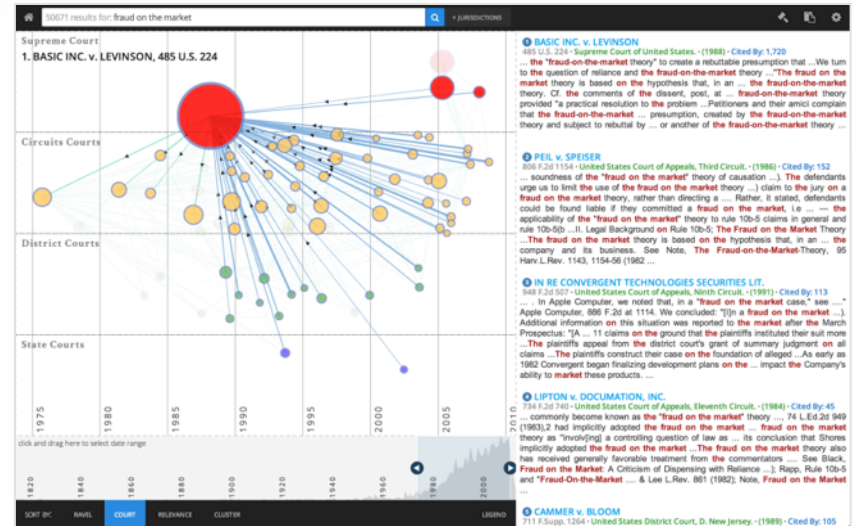
Insights, not infinite lists

Search visualizations identify major cases and needles in the haystack

Data-driven case reading enhances understanding and argument crafting

Unique judge analytics about how individual judges reason and rule

Cost recovery & collaboration with research histories and annotative tools



Thank you

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