STANFORD SOCIAL INNOVATION REVIEW PRESENTS

DATA ON PURPOSE

TELLING GREAT STORIES WITH DATA

February 9, 2:45 – 3:45 p.m.

Data Mining for Crafting Cohesive Narratives

Cheryl Phillips
Investigative Data Journalist;
Hearst Professional in
Residence, Graduate Program
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University

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Stanford SOCIAL INNOVATION Review

Where is the story?

Finding the Facts

- What to know
- Who to find out about
- How to distill it
- It's all about **the story**

Consider the **TYPES** of Sources

Instead of digging for a specific fact, ask yourself:
Who would have this type of information?

- Individuals — *Informal sources*
- Organizations — *Institutional sources*
  - Businesses
  - Governments
  - Associations
- Universities — *Scholarly sources*
- News organizations — *Journalistic sources*

What to Know: Everything is Data

Type of organization: Business, Government, NFP, NGO

- **Standards:** laws, regulations, internal policies
- **Money trails**: annual financial audits and reports, internal budgets and forecasts.
- **Government records**: funding requests, financial reports, audits, inspections, licenses, complaints, SEC, OSHA, pollution, campaign finance.
- **Real estate records**
- **Consultant reports**

How to Find it: GOOGLE HACKS

- *"full name or phrase"*
- *rphonebook: john doe, ca*
- *site:gov* **or** *site:fhcrc.org*
- *link:www.whatever.com*
- *filetype:pdf* **or** doc **or** PP etc.

Dive Deeper

Search engines typically miss:

- Database information
- Content behind firewalls
- Content behind registration screens
- Dynamically generated pages

How to find it

- **Federal Audits**
- **GAO reports**
- **Guidestar**
- **National Center for Charitable Statistics**
- Reporter's Desktop
- The Internet Archive
- www.searchsystems.net
- www.rtknet.org

How to find it

- Research Buzz
- Wolfram Alpha
- Factfinder

Once You Have the Data: How to Distill it

- Chronology
- Experts
- Analysis
- Start with a spreadsheet if you can

Timelines Come From Spreadsheets

2000

Deficit
-$770,609

Three top station executives leave KCTS. Board Chairman Doug Beighle says the departures are not related to problems at the station.

Barry Mitzman, host of "Serious Money," quits after budget cuts.

Gates Foundation makes an $11 million matching donation for digital conversion technology.

2001

Deficit
-$3,415,916

Kay Ingram, vice president of program development, resigns. Eight people laid off.

Anderson Consulting reviews KCTS budget process for free. The negative review cites a "lack of reality in the budgeting process."

Employees write to board to complain about Clark's management.

KCTS fails to pay $2.8 million in dues to PBS.

2002

Deficit
-$2,469,721

KCTS' new adult science series, "The Eyes of Nye," runs into production and legal problems.

KCTS consultant Vanessa Greene tells CEO Burnill Clark he should retire for good of the station.

Clark approaches the city and Seattle Center officials to negotiate deferring rent of $229,000 until 2006.

Number of members:
129,094

2003

Corporation for Public Broadcasting withholds nearly $750,000 in funding for KCTS because the station's financial reports are late.

All four Channel 9 stores are shuttered to save money.

Yesterday: Clark retires, efffective Oct. 31. National productions scaled back and up to 35 layoffs are announced.

Sources: KCTS, Seattle Times staff research

Using the Right Tools: PDFs

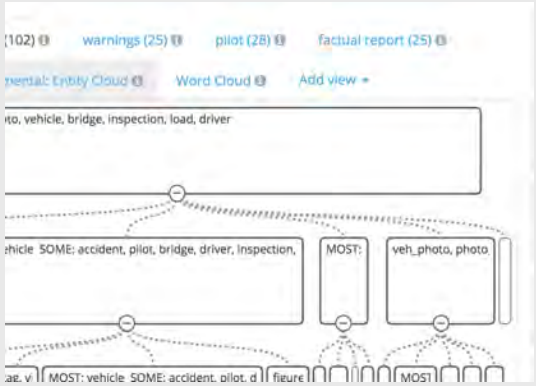
For data in PDFs, use Tabula or CometDocs

Tabula

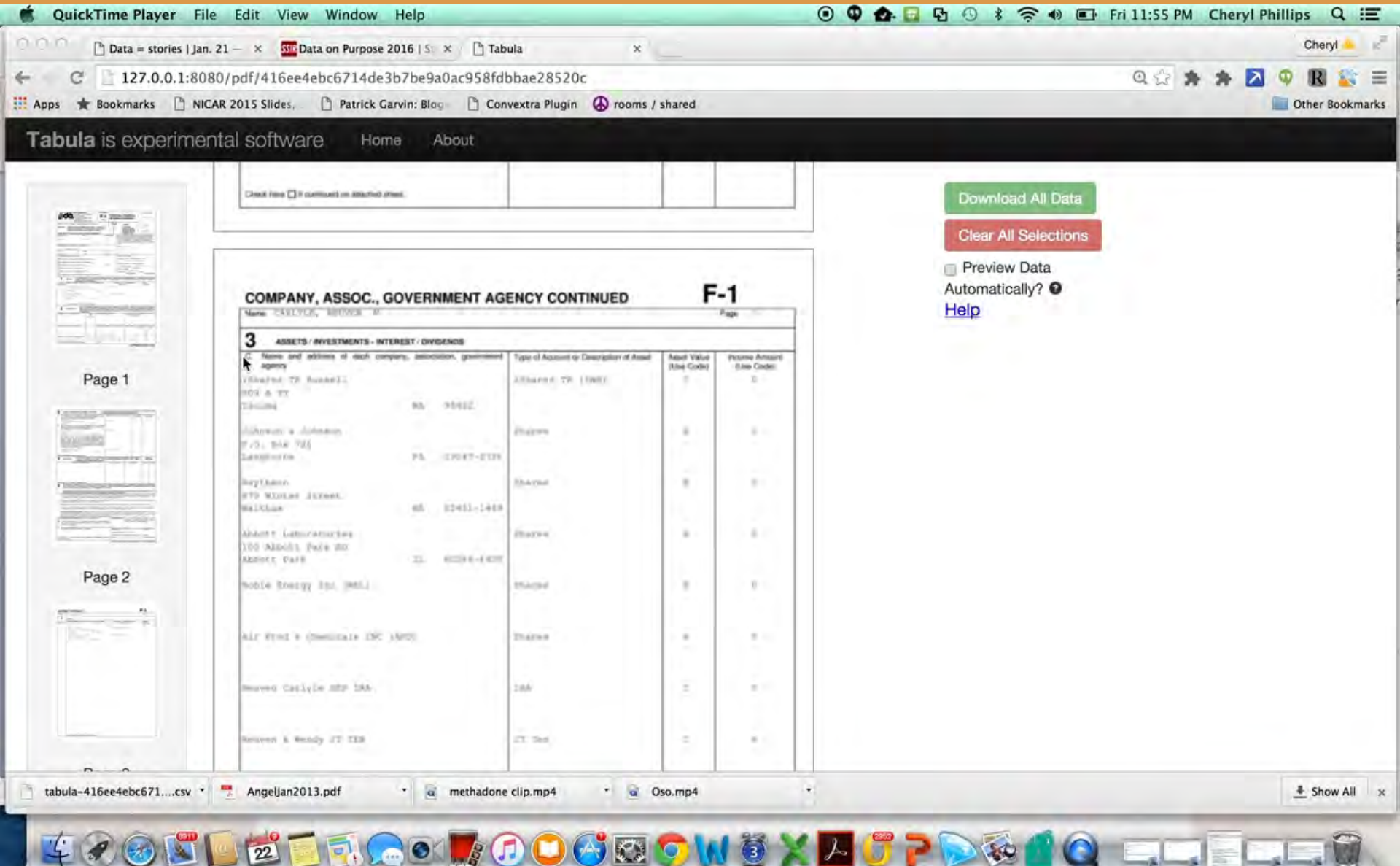
Tabula is a tool for liberating data tables locked inside PDF files.

cometdocs
Online Document Management System

For text in PDFs, try Overview



All data is dirty data



Using the Right Tools: Downloading & Scraping Data

- Dataminer (Chrome)
- import.io (app)
- Downthemall (Firefox)

Using the Right Tools: Cleaning & Standardizing Data

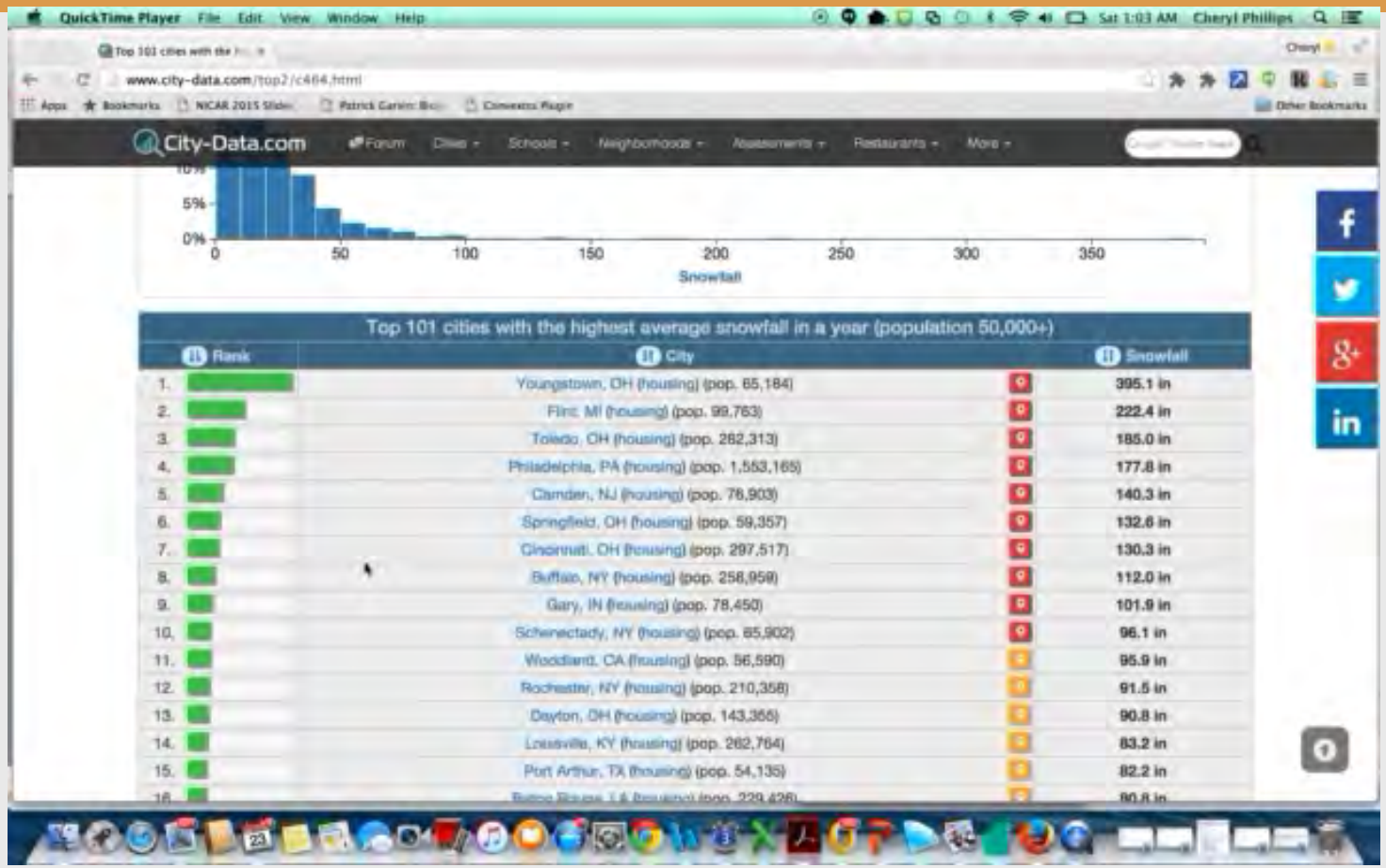
OpenRefine

TRIFACTA

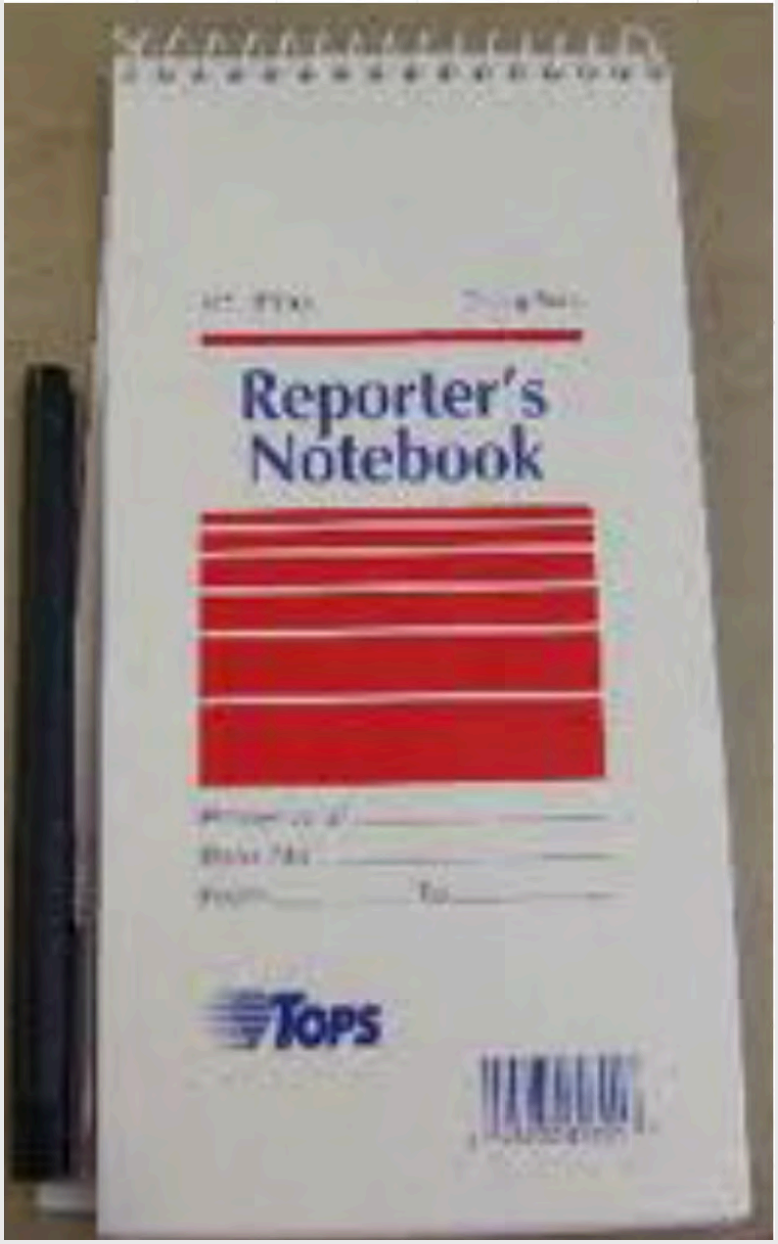
Show as: **rows** records Show: 5 **10** 25 50 rows « first ‹ previous **1 - 10** next › la

All		Hospital	Hospital 1	H
	1.	ATLANTICARE REGIONAL MEDICAL CENTER; 1925 Pacific Ave; Atlantic City; NJ; 08401	Atlanticare Regional Medical Center	1925 Ave
	2.	Atlanticare Regional Medical Center; 1401 Atlantic Avenue; Atlantic City; NJ; 08401	Atlanticare Regional Medical Center	1401 Avenu
	3.	ATLANTICARE REGIONAL MEDICAL CENTER-MAINLAND; 2500 English Creek Avenue; Galloway Twp; NJ; 08401	Atlanticare Regional Medical Center-	2500 Creek

Getting Structured Data Can be Easy



Avoid Notebook Dump



26% of Fullerton city workers crack $100K club

October 12th, 2011, 9:23 pm · View 1 comment · posted by Teri Sforza, Register staff writer

Like +1 0 Tweet Share

Twenty six percent of **Fullerton** city workers earned more than **$100,000** in total compensation in 2009 — and **seven** earned more than **$200,000**, according to figures from the state controller's office.

Average total compensation for all **1,013** reported positions — including part-timers — was **$64,563**. Of those, **262** made more than **$100K.**

If we pull out just full time workers — which we're defining as those with pension benefits — there were **738** employees. Of those, **35.4 percent** earned more than **$100K,** and the average comp was **$85,942**.

This makes Fullerton one of the most modest-paying older cities we've examined thus far. Grande dames such as **Orange**, **Anaheim** and **Santa Ana** had many more highly-paid city workers, and considerably higher average compensations. (The word "bankruptcy," in fact, has been whispered in Santa Ana city hall.)

The upper echelon of city employees is dominated by folks in the fire and police departments, while the lower echelons are dominated by parks and recreation, maintenance and library workers.

Fullerton spokeswoman **Sylvia Palmer** asked us to note that, since these figures were reported for 2009, the city has taken more steps to increase efficiency.

The Fullerton and **Brea** fire departments have merged command staffs, resulting in significant savings; and **three** department head positions have been vacant since January (maintenance services, parks and recreation, and redevelopment and economic development). There are no immediate plans to fill those jobs, Palmer she said.

You can see pay detail on Fullerton city workers here. A breakout on full-time workers only is here.

PUBLIC SAFETY

Fullerton is one of the old O.C. cities that has its own fire and police departments. It spent **69.7 percent** of its general fund budget on public safety last year.

These costs are weighing down many older cities: **Santa Ana** spent **77 percent** of its budget on police and fire last year; while **Westminster, Stanton** and **Garden Grove** also spent more than **70 percent** on public safety. (**Vallejo** declared bankruptcy after those costs reached **80 percent**, so it's something to watch for. The more money that goes here, the less that goes to other city programs like parks and maintenance.)

FIRE: As one of the grande dames, Fullerton has its own fire department (newer cities contract with the **Orange County Fire Authority** for service).

- Fullerton reported **106** total paid positions in the fire department, including a handful of part-timers. Average comp was **$104,714.**
- Counting only full-timers, and there were **100** employees, with average comp of **$110,557.**
- See details of fire department comp here.

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Why?

Why?

Average total compensation for all **1,013** reported positions — including part-timers — was **$64,563**. Of those, **262** made more than **$100K.**

26 percent — repeating the lede.

If we pull out just full time work[illegible] we're defining as those with per[illegible] — there were **738** employees. Of those, **35.4 percent** earned more than **$100K,** and the average comp was **$85,942**.

Department	Classification	Total Wages Subject to Medicare (Box 5 of W-2)	Applicable Defined Benefit Pension Formula	Employees' Share of Pension Contributions	Deferred Compensation	Health, Dental, Vision	Total
Police	Police Captain	$256,376	3%@50	$7,457	0	0	$263,833
Fire	Battalion Chief	$176,473	3%@50	$6,704	0	$28,656	$211,833
Fire	Battalion Chief	$200,610	3%@50	$4,623	0	0	$205,233
Fire	Fire Chief	$193,932	3%@50	$8,915	0	0	$202,847
Fire	Fire Marshal/Division Chief	$156,689	3%@50	$7,288	0	$28,656	$192,633
Fire	Division Chief - Operations	$161,700	3%@50	$7,443	0	$23,287	$192,430
Police	Police Captain	$176,788	3%@50	$7,895	0	0	$184,683
Police	Police Lieutenant	$157,580	3%@50	$6,893	0	$15,916	$180,389
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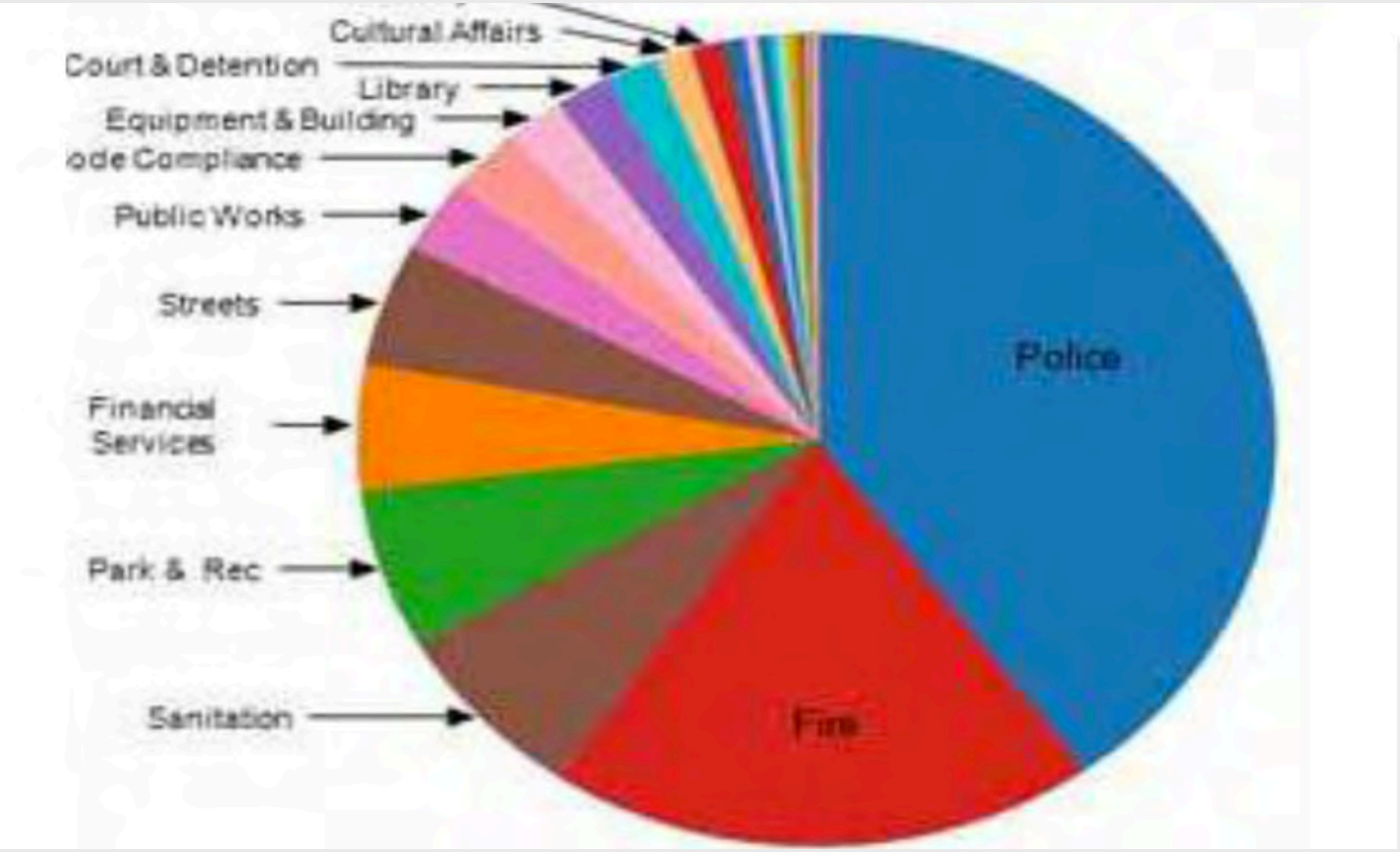
Fire	Battalion Chief	$140,998	3%@50	$5,210	0	$28,656	$174,864
Police	Police Lieutenant	$155,508	3%@50	$6,893	0	$9,833	$172,234


Cultural Affairs
Court & Detention
Library
Equipment & Building
ode Compliance
Public Works
Streets
Financial Services
Park & Rec
Sanitation
Police
Fire

Finding the Patterns & Outliers: That's Where the Story Is

- Spreadsheets are always a good place to start
  - Sorting
  - Filtering
  - Pivot Tables
  - Basic Charts
- Structured Query Language for databases
  - Sorting & Filtering
  - Group By
  - Joins
- Mapping
  - Google Fusion Tables
  - Tableau Public (no geocoding)
  - Esri Arcmap (paid)/Esri Storymaps (free version)
  - CartoDB
  - Mapbox
  - QGIS (open-source)

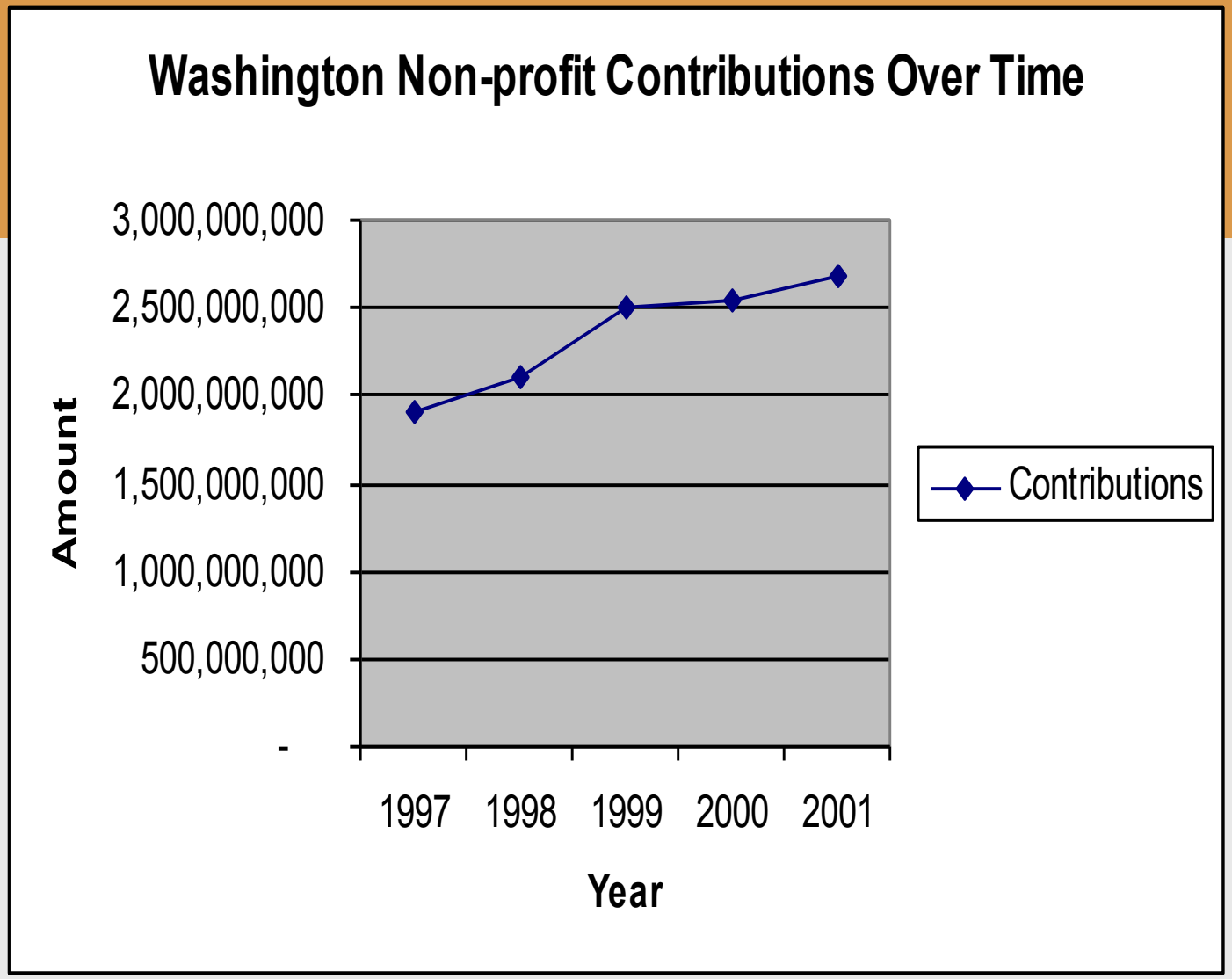
Using the Information to Find Trends

National Center for Charitable Statistics data:

Microsoft Access - [ALLCHARITIESOVERTIME : Table]

File Edit View Insert Format Records Tools Window Help

EIN	NAME	STATE	NTEE1	NTEECC	10cat	ADDRESS	CITY
042960005	LETS FACE IT U S A	WA	P	P80	HUMAN SERVI	PO BOX 29972	BELLINGHAM
112985426	CRANKY DESTROYERS	WA	O	O99	HUMAN SERVI	12520 14TH AV	SEATTLE
133209618	GIRAFFE PROJECT INC	WA	D	D99	ENVIRONMENT	BOX 759	LANGLEY
133404830	U S INTERRELIGIOUS COMMITTEE FOR PEACE IN TH	WA	Q	Q40	INTERNATIONA	922 131ST NW	MARYSVILLE
133444882	EATING DISORDERS AWARENESS & PREVENTION I	WA	G	G70	HEALTH	603 STEWART	SEATTLE
133747419	R MYERS FOUNDATION	WA	Z	Z99	UNKNOWN	3315 NE 112TH	VANCOUVER
136106503	SPAFFORD CHILDRENS CENTER ASSOCIATION	WA	L	L41	HUMAN SERVI	4550 132ND AV	BELLEVUE
141752216	ANIMAL PEOPLE INC	WA	D	D20	ENVIRONMENT	PO BOX 960	CLINTON
222207869	GLASS ART SOCIETY INC	WA	A	A40	ARTS, CULTUR	1305 FOURTH A	SEATTLE
222601914	FOUNDATION FOR COMMUNITY ENCOURAGEMENT I	WA	S	S20	PUBLIC, SOCIE	PO BOX 17210	SEATTLE
222968673	UNIDENTIFIED MOVING OBJECTS COMPANY INC	WA	A	A99	ARTS, CULTUR	PO BOX 347	VASHON
223190778	AWARENESS SOCIETY A NEW JERSEY NONPROFIT	WA	B	B99	EDUCATION	26331 NE VALL	DUVALL
226059828	AMERICAN GLOXINIA & GESNERIAD SOCIETY INC	WA	C	C42	ENVIRONMENT	2913 N MONRO	TACOMA
231663798	EUROPEAN CHRISTIAN MISSION	WA	X	X20	RELIGION-REL	PO BOX 1006	POINT ROBE
232616113	MAX ARONOFF VIOLA INSTITUTE	WA	A	A6E	ARTS, CULTUR	6302 54TH AVE	TACOMA
237004247	SEATTLE DRUG & NARCOTIC CENTER SEADRUNER	WA	F	F22	HEALTH	PO BOX 24344	SEATTLE
237005501	KADLEC MEDICAL CENTER FOUNDATION INC	WA	E	E11	HEALTH	888 SWIFT BLV	RICHLAND
237005522	TACOMA YOUTH SYMPHONY ASSOCIATION INC	WA	A	A19	ARTS, CULTUR	PO BOX 660	TACOMA
237005526	WENATCHEE CIVIC BALLET	WA	A	A63	ARTS, CULTUR	PO BOX 2053	WENATCHEE
237013307	METHOW VALLEY HOME HEALTH AGENCY INC	WA	E	E62	HEALTH	PO BOX 66	TWISP
237013318	SPOKANE ART SCHOOL INC	WA	A	A25	ARTS, CULTUR	920 N HOWARD	SPOKANE
237014921	EPIPHANY SCHOOL	WA	B	B24	EDUCATION	3710 E HOWELL	SEATTLE
237017467	CENTRAL WASHINGTON UNIVERSITY FOUNDATION	WA	B	B11	EDUCATION	CENTRAL WAS	ELLENSBUR
237018066	PARENTS WITHOUT PARTNERS INC SOUTH SNO KIN	WA	P	P42	HUMAN SERVI	PO BOX 5670	LYNNWOOD
237022221	SAN JUAN HISTORICAL SOCIETY	WA	A	A80	ARTS, CULTUR	PO BOX 441	FRIDAY HAR
237023350	MOUNTAINEERS FOUNDATION	WA	T	T22	PUBLIC, SOCIE	300 THIRD AVE	SEATTLE
237027191	FRANKLIN COUNTY HISTORICAL SOCIETY	WA	A	A80	ARTS, CULTUR	305 N FOURTH	PASCO
237034379	LITTLE LEAGUE BASEBALL INC 4470905	WA	N	N63	HUMAN SERVI	28 CHELAN KE	BELLEVUE
237036375	BELLINGHAM CHRISTIAN SCHOOL INC	WA	B	B24	EDUCATION	1600 E SUNSET	BELLINGHAM
237039840	CONSTRUCTION WORKERS CHRISTIAN FELLOWSHIP	WA	X	X20	RELIGION-REL	610 N FIRST AV	KELSO
237041773	CROSS CURRENTS MINISTRIES	WA	P	P99	EDUCATION	PO BOX 28444	BELLINGHAM

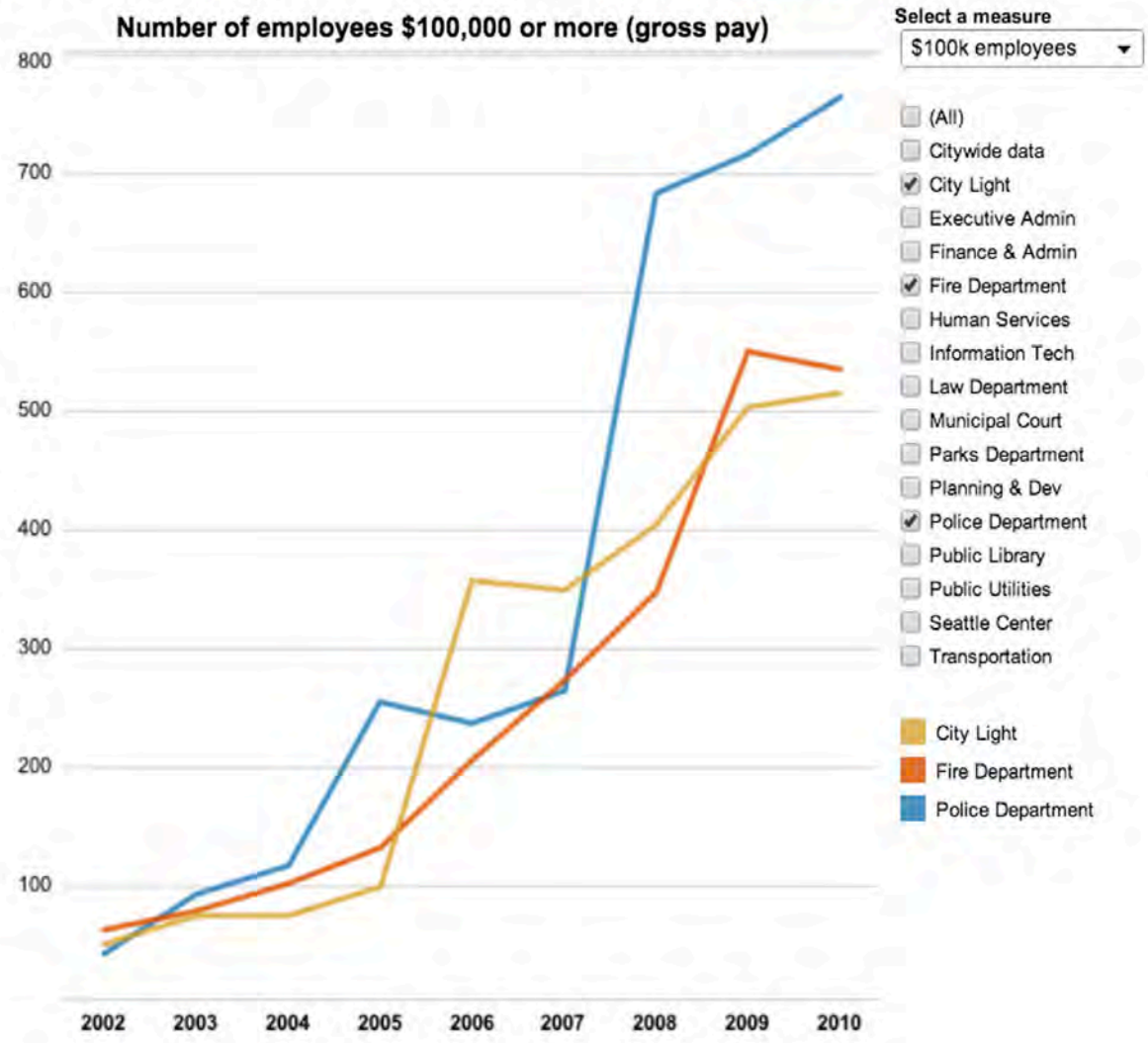

Washington Non-profit Contributions Over Time
3,000,000,000
2,500,000,000
2,000,000,000
1,500,000,000
1,000,000,000
500,000,000
-
Amount
1997
1998
1999
2000
2001
Year
Contributions

What is the Story?

Does your visual storytelling back up your nut graf or theme?

City of Seattle's highest-paid employees by department

The number of city of Seattle employees making at least $100,000 increased more than tenfold since 2002. Last year, about one in five employees made that much. Using this interactive chart, you can explore payroll data for the city's biggest departments, including how many employees made six figures and each department's median pay and overtime. Hover over the lines or click to see each year's data. Read story



Saturday, September 17, 2011 - Page updated at 07:16 p.m.

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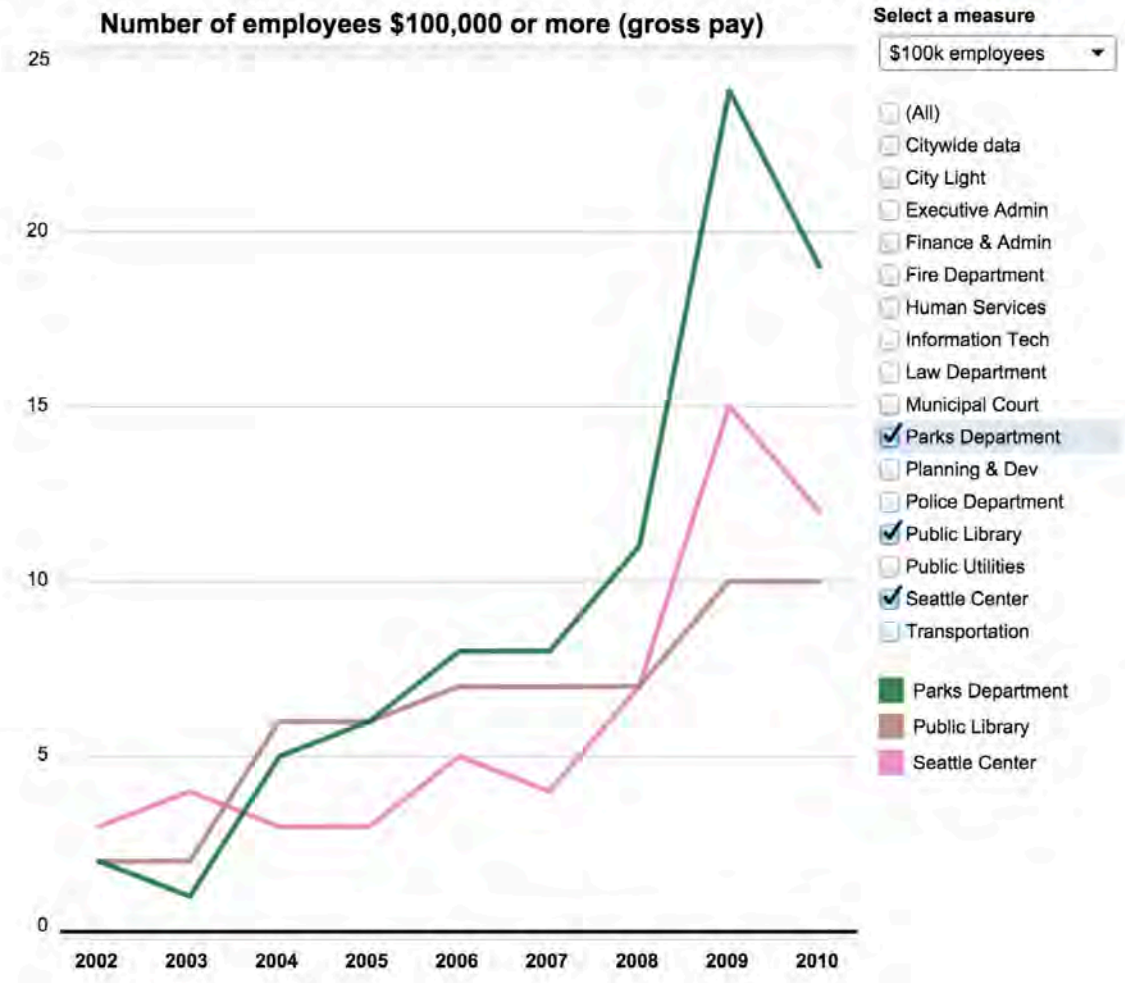

Are There Patterns That Tell the Story?

- Chapters?
- By Issue?
- Over time?
- Geographically?

Circle back at the end.

GLAMOUR BEASTS: *The dark side of elephant captivity*

BENJAMIN BENSCHNEIDER / THE SEATTLE TIMES

Name	City	State	1333 Total	274 Present	59 Male	215 Female	167 Births	580 Relocated	479 Died	As of
Abilene Zoo	Abilene	TX	6	0	0	0	0	3	3	7/10/12
African Safari Wildlife Park		OH								
Akron Zoological Park		OH	0	0	0	0	0	0	0	
Bergen County Zoological Park		NJ								
Binder Park Zoo		MI								
Binghamton Zoo at Ross Park		NY								
Birmingham Zoo	Birmingham	AL	8	4	4	0	0	2	2	7/10/12
Blank Park Zoo	Des Moines	IA	2	0	0	0	0	1	1	7/10/12
Boston Metroparks Zoo	Boston	MA	2	0	0	0	0	1	1	7/10/12
Bramble Park Zoo		SD								
Brandywine Zoo		DE								
		FL								
	Bronx	NY	31	3	0	3	1	7	21	7/10/12
	Chicago	IL	28	0	0	0	0	11	17	7/10/12
dens		SC								
	Buffalo	NY	19	2	0	2	0	11	6	7/10/12
Tampa Bay (Busch Gardens Africa)	Tampa	FL	36	5	0	5	3	16	15	7/10/12
rk Zoo, New Bedford	New Bedford	MA	3	2	0	2	0	1	0	7/10/12
	Tyler	TX	8	3	0	3	0	3	2	7/10/12
oo	Waco	TX	5	2	0	2	0	1	2	7/10/12
ty Park Zoo		NJ								
o		MA								
Zoological Park		FL								
o	New York	NY	14	0	0	0	0	7	7	7/10/12
		ND								
k Zoo		CA								
o at Warner Park		TN								
imal Park	Albany	GA	3	0	0	0	0	3	0	7/10/12
tain Zoo	Colorado Springs	CO	9	4	0	4	0	3	2	7/10/12
t Celebration Square		MI								
k Botanical Garden	Cincinnati	OH	15	4	1	3	1	5	6	7/10/12
parks Zoo	Cleveland	OH	23	6	1	5	1	9	8	7/10/12
Reptiland		PA								
nd Aquarium	Powell	OH	26	4	2	2	3	14	8	7/10/12
and Conservatory		MN								
leardsley Zoo		CT								
		IL								
		CA								
).		ND								
	Dallas	TX	16	5	0	5	0	5	6	7/10/12
oo of Emporia	Emporia	KS								
	Denver	CO	13	4	2	2	0	6	3	7/10/12
	Royal Oak	MI	9	0	0	0	0	5	4	7/10/12
Zoo	Springfield	MO	35	4	1	3	10	21	10	7/10/12
Kingdom		FL	22	12	4	8	8	6	4	7/10/12
	El Paso	TX	4	2	0	2	0	1	1	7/10/12
		TX								
oo		PA								
Park and Botanical Garden of Northwestern	Erie	PA	7	0	0	0	0	4	3	7/10/12
s Zoo	Lincoln	NE	1	0	0	0	0	1	0	7/10/12
dren's Zoological Garden	Fort Wayne	IN	1	0	0	0	0	1	0	7/10/12
	Fort Worth	TX	27	5	1	4	6	10	12	7/10/12
fe Center		TX								
o		MA								
Zoo		CA								
oo	Brownsville	TX	11	0	0	0	4	4	7	7/10/12
	Peoria	IL	5	0	0	0	0	4	1	7/10/12
and Museum		SD								
	Greenville	SC	4	2	0	2	0	2	0	7/10/12
Discovery Center		MT								
oo (San Jose Zoological Gardens)	San Jose	CA	4	0	0	0	0	4	0	7/10/12
	Madison	WI	10	0	0	0	0	7	3	7/10/12
n Zoo		IL								
oamerica)	Hershey	PA	1	0	0	0	0	1	0	7/10/12
City Zoo)	Salt Lake City	UT	11	3	0	3	2	0	8	7/10/12
apiolani Park Zoo)	Honolulu	HI	9	2	0	2	0	2	5	7/10/12
	Houston	TX	28	7	3	4	16	6	15	7/10/12
		KS								
fari Wildlife Park	Port Clinton	OH	1	0	0	0	0	1	0	7/10/12
	Indianapolis	IN	16	8	1	7	6	6	2	7/10/12
nservation Center	Somerset County	PA	6	5	1	4	0	1	0	7/10/12
Jackson Zoological Garden	Jackson	MS	3	0	0	0	0	2	1	7/10/12
Jacksonville Zoo and Gardens	Jacksonville	FL	21	4	1	3	1	14	3	7/10/12
John Ball Zoological Gardens, Mich		MI								

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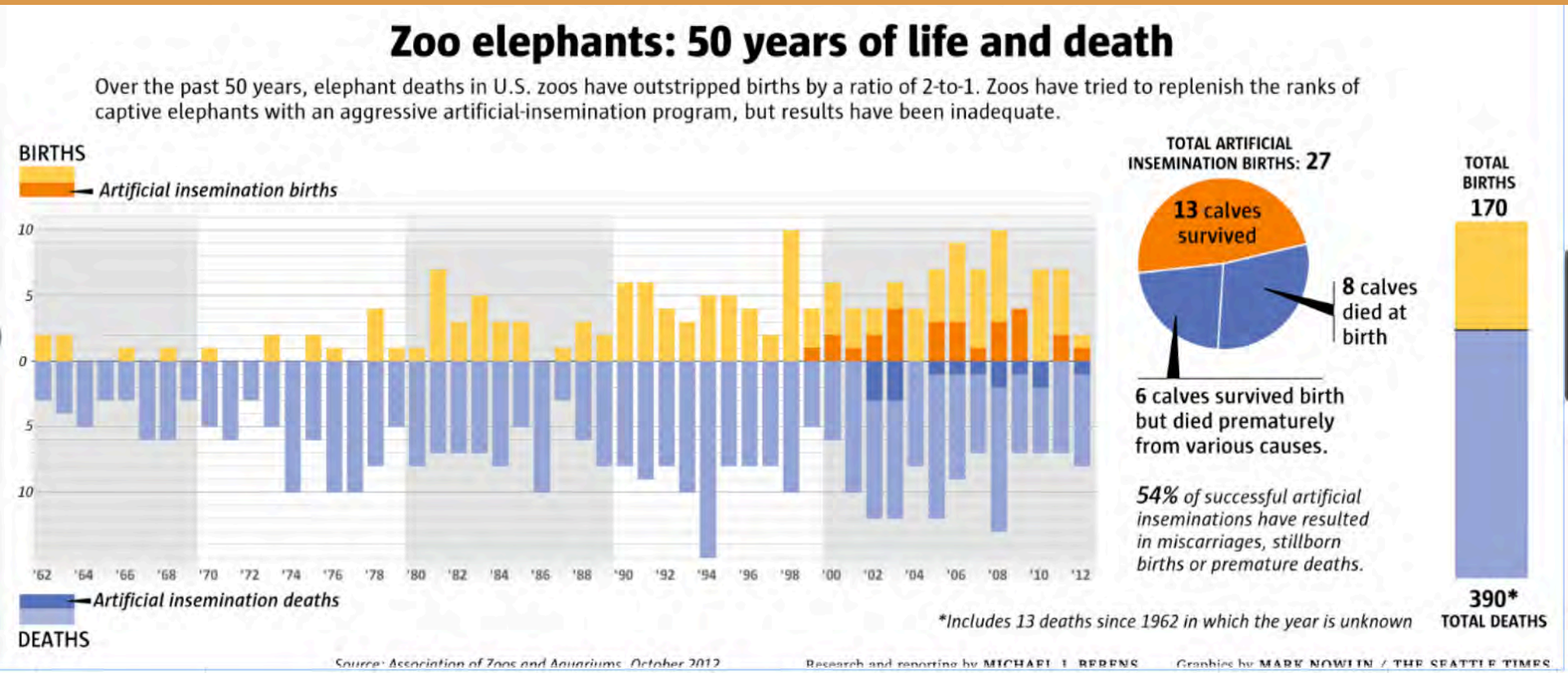
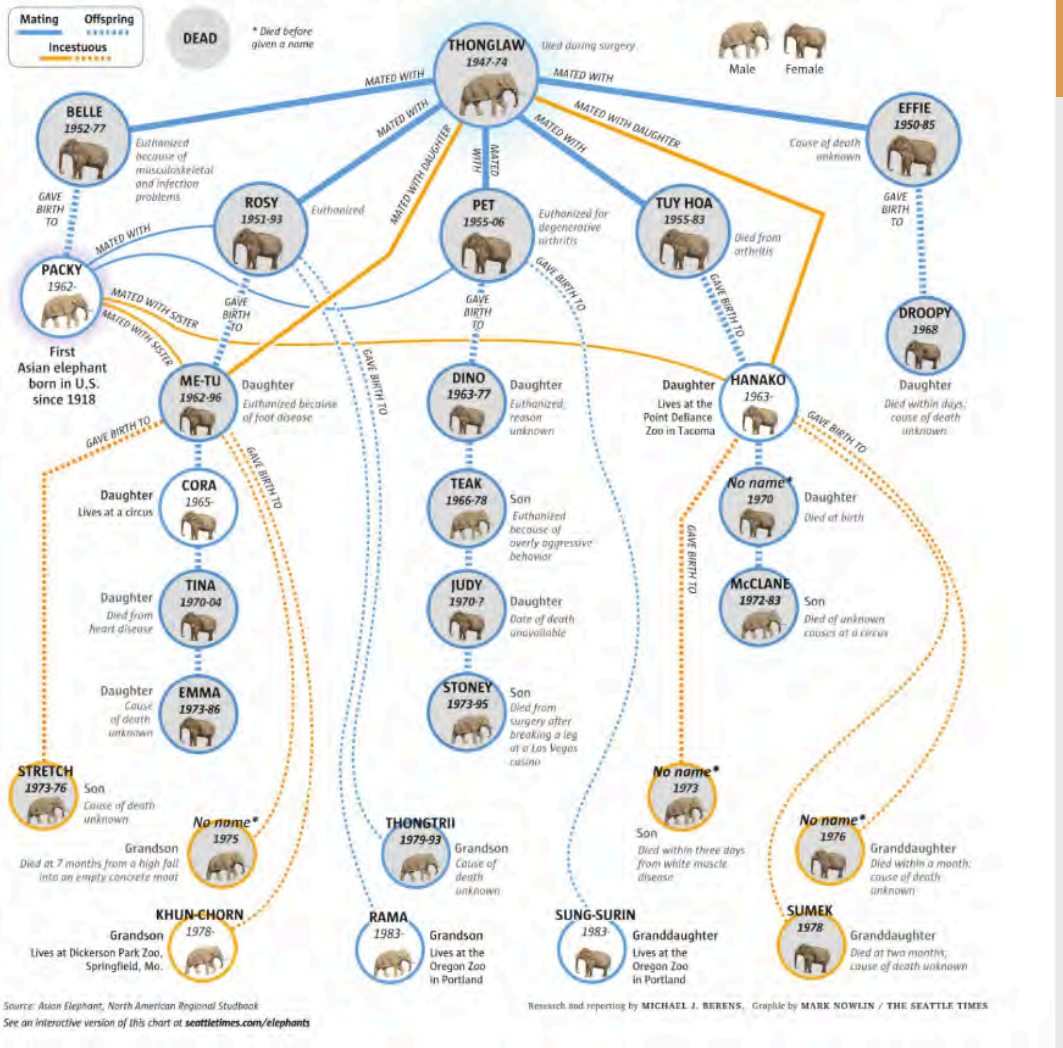

Zoo elephants: 50 years of life and death
Over the past 50 years, elephant deaths in U.S. zoos have outstripped births by a ratio of 2-to-1. Zoos have tried to replenish the ranks of captive elephants with an aggressive artificial-insemination program, but results have been inadequate.
BIRTHS
Artificial insemination births
10
5
0
5
10
'62 '64 '66 '68 '70 '72 '74 '76 '78 '80 '82 '84 '86 '88 '90 '92 '94 '96 '98 '00 '02 '04 '06 '08 '10 '12
Artificial insemination deaths
DEATHS
TOTAL ARTIFICIAL INSEMINATION BIRTHS: 27
13 calves survived
8 calves died at birth
6 calves survived birth but died prematurely from various causes.
54% of successful artificial inseminations have resulted in miscarriages, stillborn births or premature deaths.
TOTAL BIRTHS
170
390*
TOTAL DEATHS
*Includes 13 deaths since 1962 in which the year is unknown
Source: Association of Zoos and Aquariums, October 2012
Research and reporting by MICHAEL J. BERENS
Graphics by MARK NOWLIN / THE SEATTLE TIMES

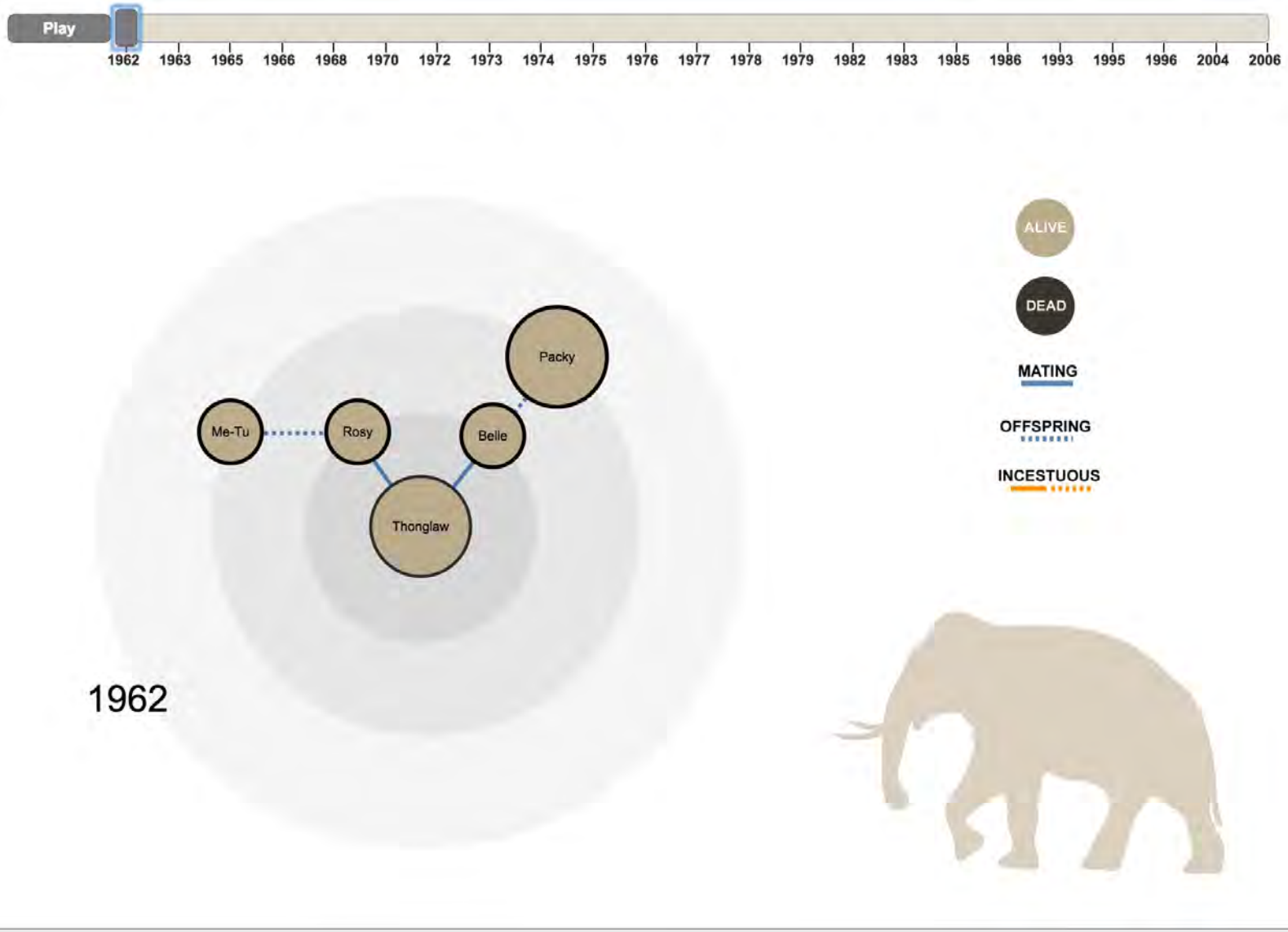
The troubled history of an elephant family

Fifty years ago, Packy became the first elephant born in a U.S. zoo, captivating millions of people far beyond Seattle, where he was conceived, and Portland, where he was born. The birth and economic boon from Packy-mania set off a quest by zoos for their own baby elephants – a quest that continues today. Obscured has been the troubled family history of Packy and his father, Thonglaw.

Following long-abandoned practice, the Oregon Zoo mated Thonglaw with his daughters and Packy to his sisters, producing damaged offspring. Thonglaw died at age 27 from an adverse reaction to anesthesia during surgery for chronic foot disease, which is linked to captivity. Packy's mother, Belle, was euthanized because of a foot infection. One family member was euthanized for being too aggressive. Another died during surgery to repair a broken leg suffered at a Las Vegas casino.

Of the 22 offspring of Thonglaw and Packy, six elephants are still living.




Play
1962
1963
1965
1966
1968
1970
1972
1973
1974
1975
1976
1977
1978
1979
1982
1983
1985
1986
1993
1995
1996
2004
2006
Packy
Me-Tu
Rosy
Belle
Thonglaw
1962
ALIVE
DEAD
MATING
OFFSPRING
INCESTUOUS

Is There One Narrative Touchpoint?

The Seattle Times PHARMA'S WINDFALL

PHARMA'S WINDFALL

The mining of rare diseases

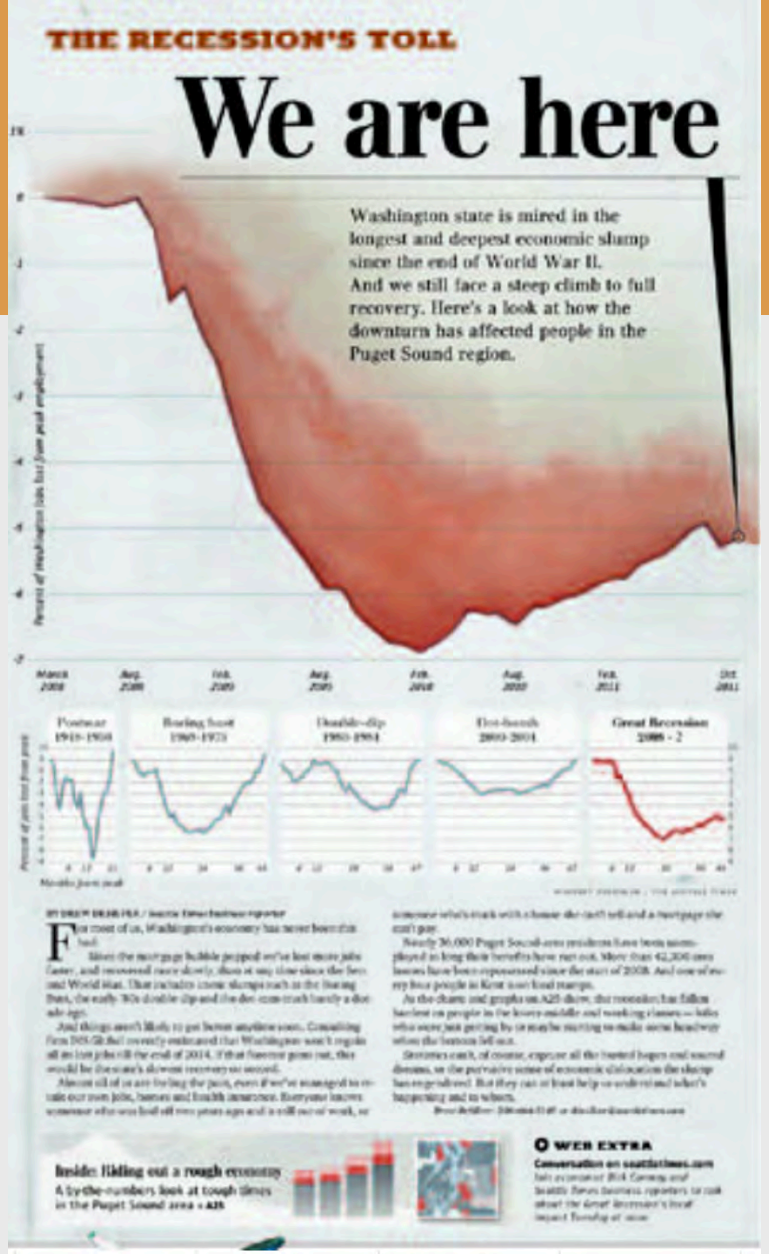
Thirty years ago, Congress acted to spur research on rare diseases. Today, we have hundreds of new drugs — along with runaway pricing and market manipulation, as drugmakers turn a law with good intentions into a profit engine.

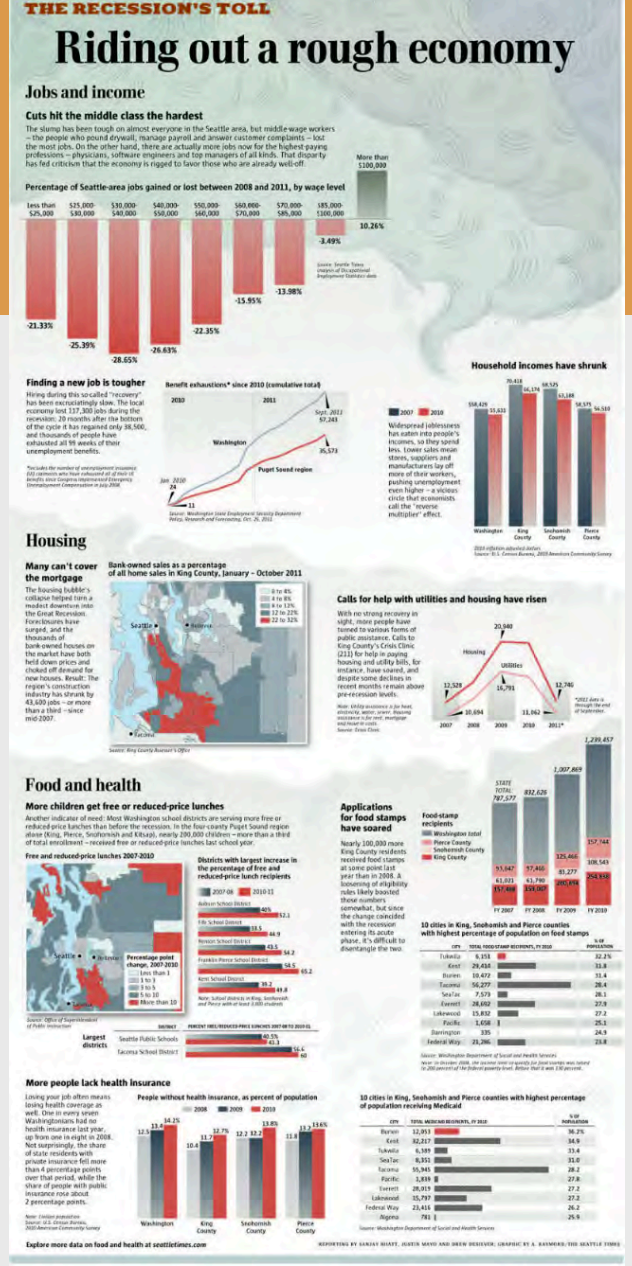
By MICHAEL J. BERENS and KEN ARMSTRONG

272

Her vision failed first.

Then she fell asleep at school from inexplicable fatigue. Even walking proved difficult, often impossible, as she knocked into furniture and walls. It was like an electrical switch in her body toggled without warning. Some days she was in control, most she was not.





STANFORD SOCIAL INNOVATION REVIEW PRESENTS
DATA ON PURPOSE
TELLING GREAT STORIES WITH DATA

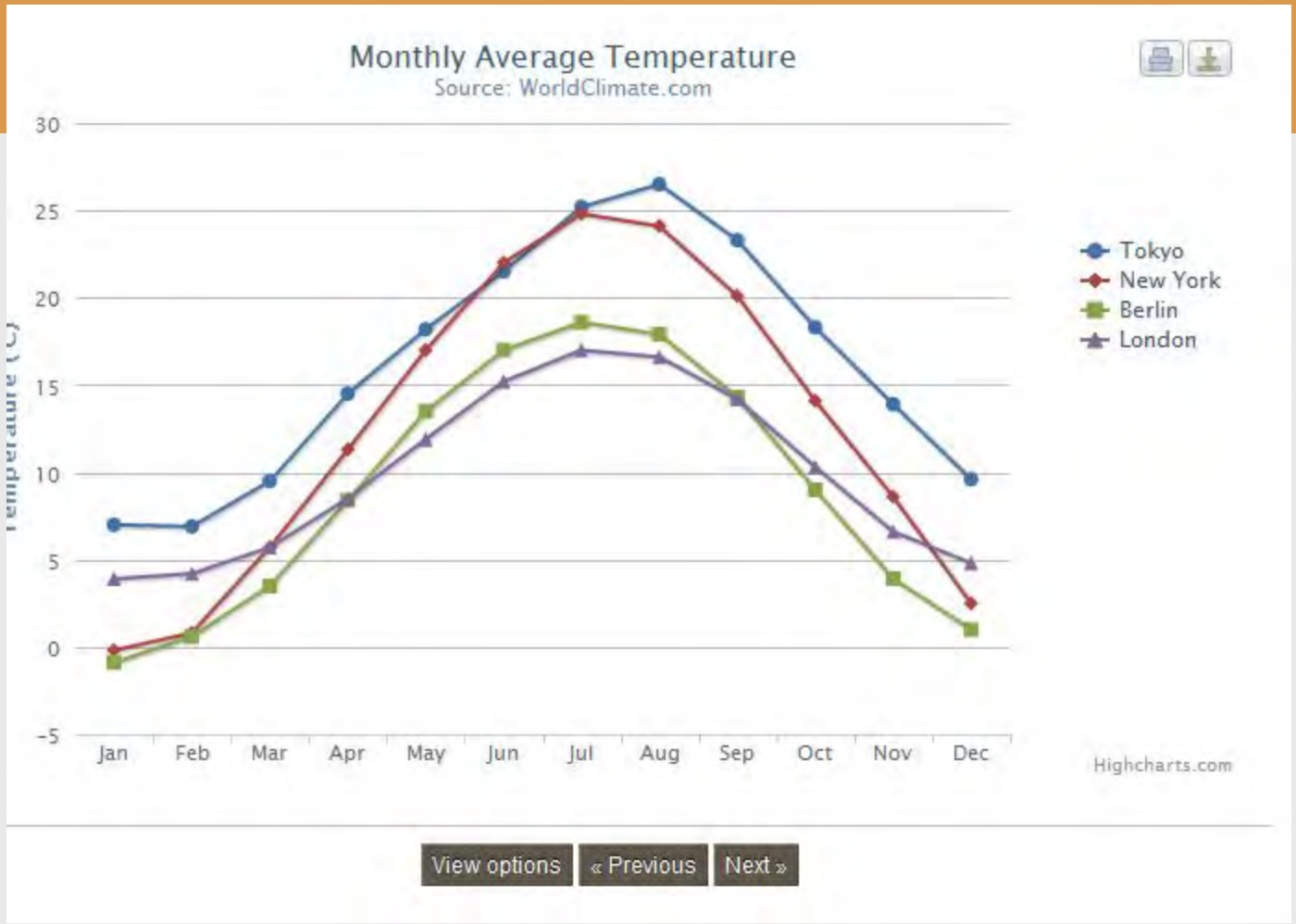
Stanford SOCIAL INNOVATION Review

Finding the Patterns & Outliers: That's Where the Story Is

Visualizing the data

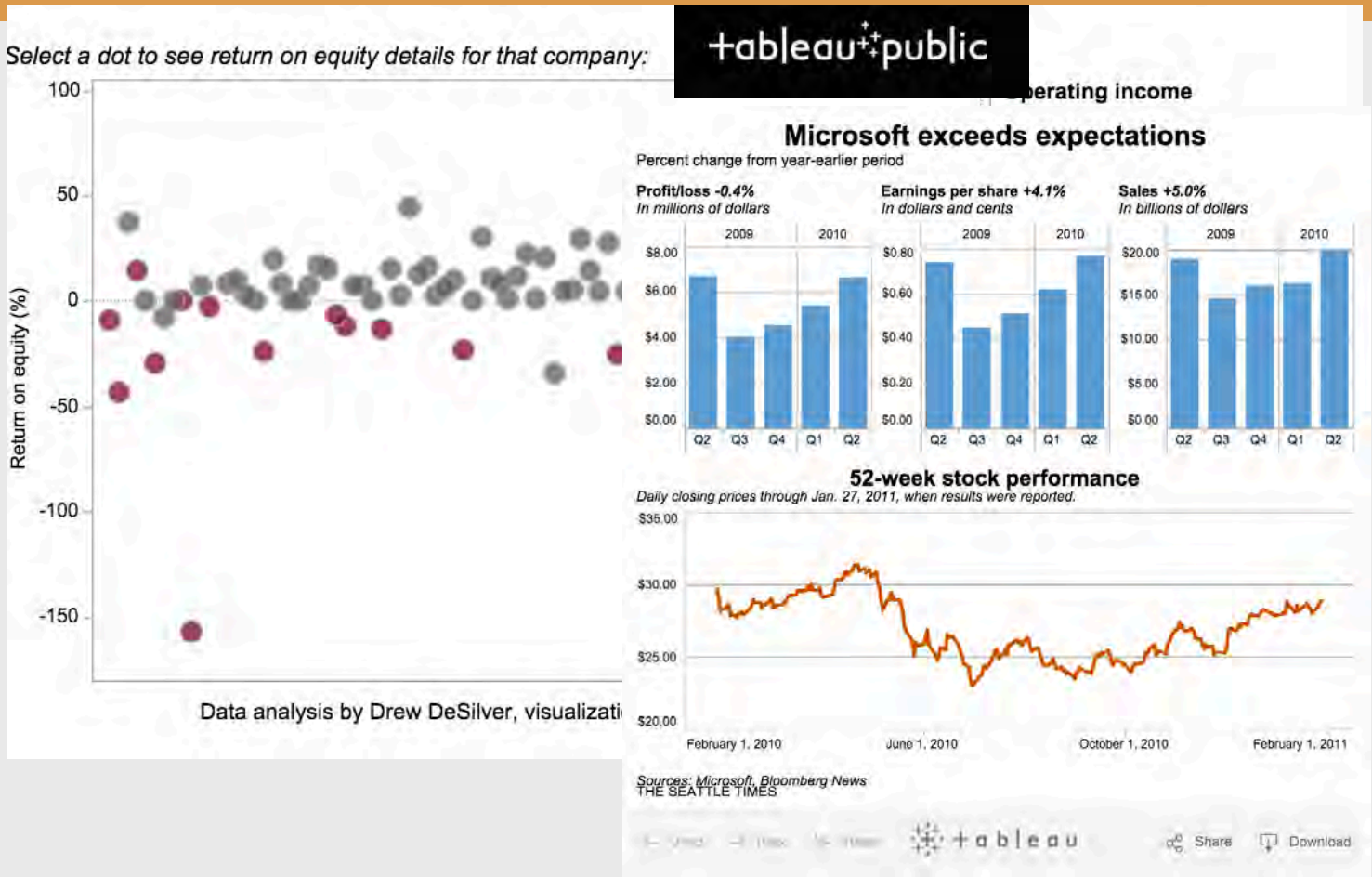
- Plotly
- Highcharts
- Silk
- Tableau Software and Tableau Public
- Javascript

Highcharts



http://www.highcharts.com

Tableau Public



Visualizations as sidebars

METHADONE AND THE POLITICS OF PAIN | Silent deaths | Politics of pain | A troubled clinic

PHOTO BY MIKE SIEGEL / THE SEATTLE TIMES

Sara Taylor, mother of former King County 911 dispatcher Angeline Burrell, describes her daughter's battle with disabling chronic pain and her overdose death from methadone. At left is Taylor's husband, Dale.

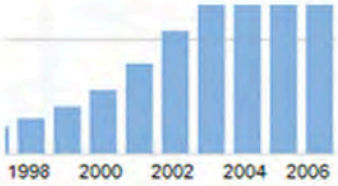
State pushes prescription painkiller methadone, saving millions but costing lives

To cut costs, Washington steers Medicaid patients to a narcotic that costs less than a dollar a dose. The state insists methadone is safe. But hundreds die from it each year — and more than anyone else, it's the poor who pay the price.

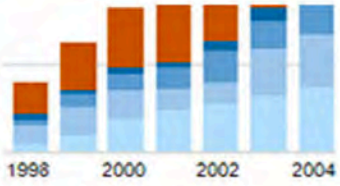
MORE IN THE SERIES:

- Update: 'Preferred' pain drug now called last resort
- Update: State plans emergency warning on risks of methadone
- Video: Methadone's toll
- Timeline: State defends methadone as deaths rise
- Silent deaths: source documents
- How we did it: our analysis
- Seattle Times methadone investigation wins 2012 Pulitzer Prize
- Times awarded Selden Ring Award for Investigative Reporting

Methadone consumption and deaths: Numbers tell the story

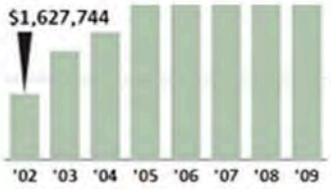


Interactive: Use has skyrocketed since state put drug on list



Interactive: More deaths from methadone than other drugs

Interactive: In Washington, victims are clustered in poorer



Graphic: The costs of hospital care linked to methadone have

Interactive: Nationwide, Washington stands out as one of

STANFORD SOCIAL INNOVATION REVIEW PRESENTS

DATA ON PURPOSE

TELLING GREAT STORIES WITH DATA

Stanford SOCIAL INNOVATION Review

Bridges

Rick Lund / The Seattle Times

7 low highway bridges hold similar risks to Skagit span

By Mike Lindblom
Cheryl Phillips

Washington state has seven other highway bridges with clearances as low as the Interstate 5 Skagit River bridge, where an overheight load destroyed one of four spans last week.

That fact suggests that without tougher oversight of cross-state hauling, the same kind of accident could happen again.

Environment | Local News | Transportation

Span wasn't built to take critical hit

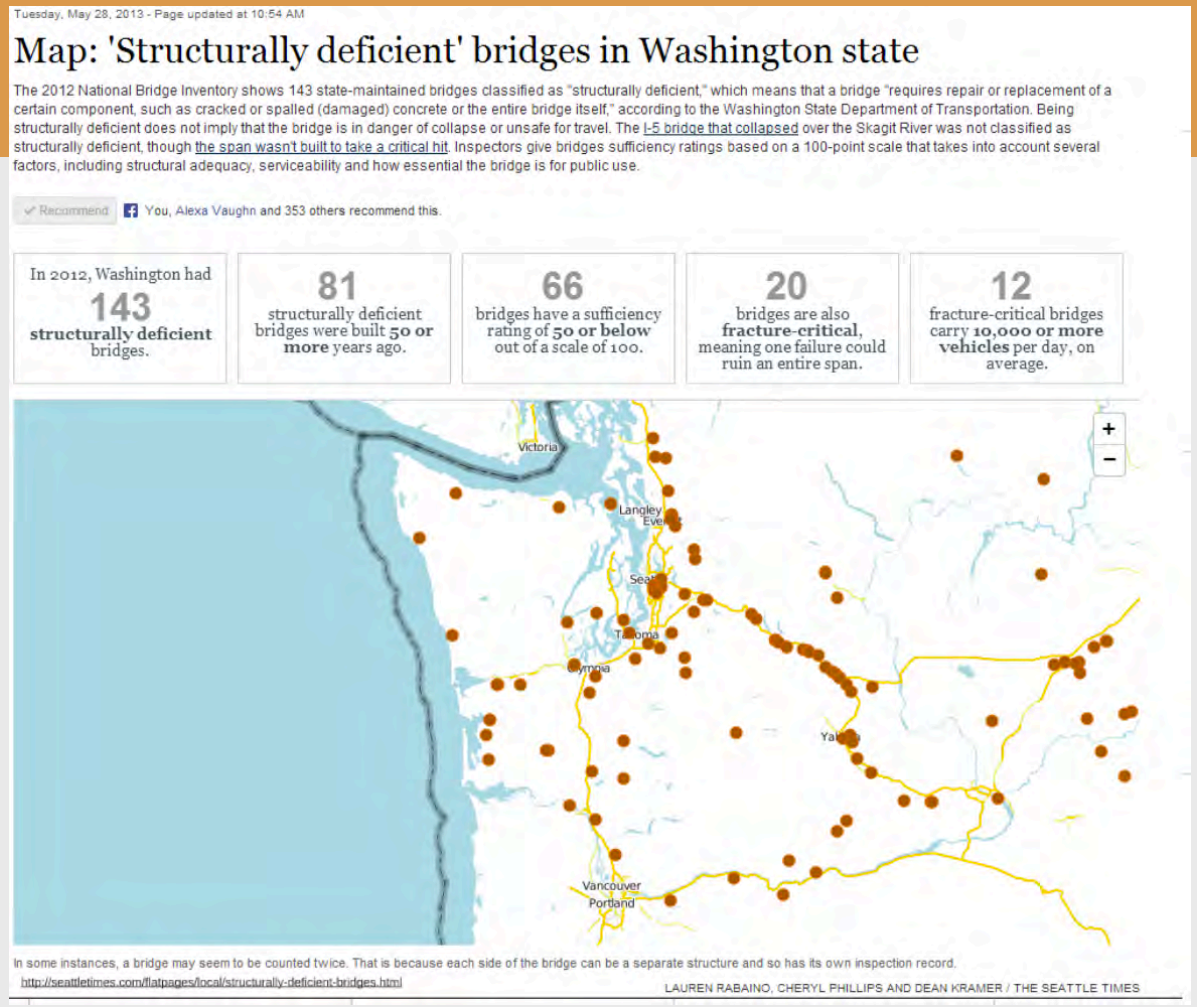
Originally published May 24, 2013 at 12:19 am | Updated May 24, 2013 at 6:37 am

Bridges

Began as a [Google Fusion Table]

Was analyzed in Excel and a SQL database

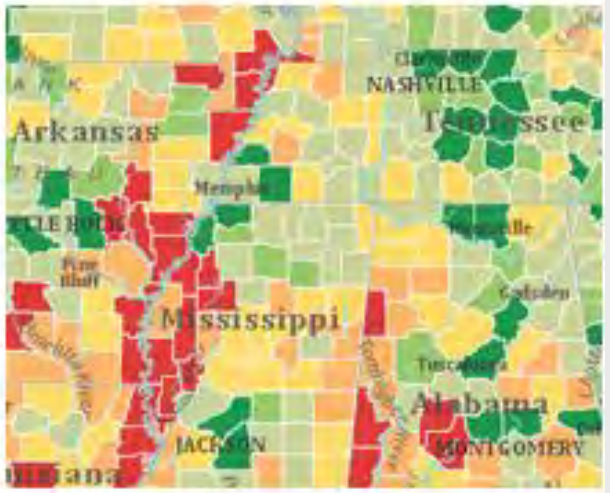
Refined for presentation in Mapbox



Oso Landslide

ESRI Mapping for Everyone

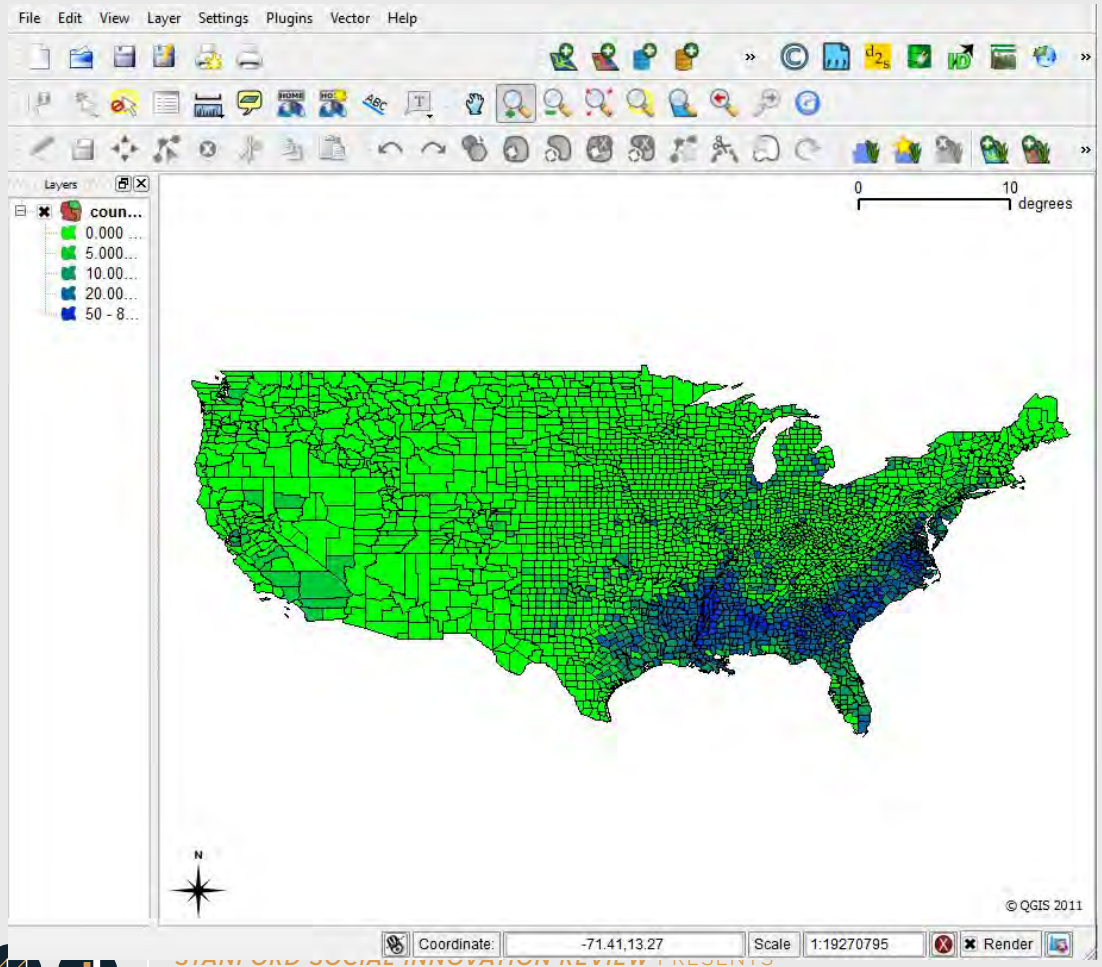
Make a Nuclear Proximity Map
See how close you are to U.S. nuclear plants.



Make a Demographic Map
Make and share a map of a selected area in the U.S. showing various census data.

http://www.esri.com/mapping-for-everyone

QGIS (qgis.org)



Timothy Barmann tutorials:

Intro:

http://tbarmann.webfactional.com/nicar/qgis_tutorial/

Dynamic maps:

http://tbarmann.webfactional.com/nicar/js_mapping/tutorial/

http://www.esri.com/mapping-for-everyone

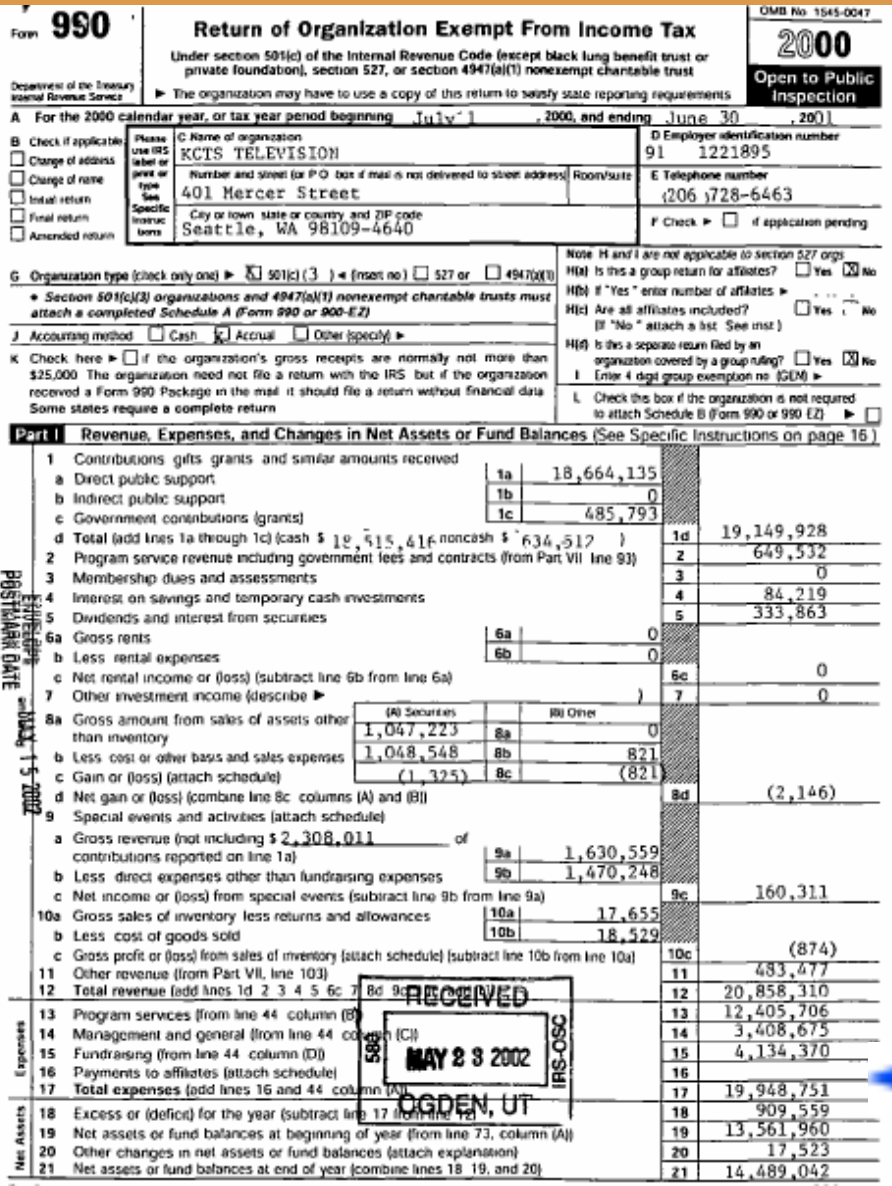
Mind the Gap

Contributions

Special events

Expenses

The bottom line



Form **990**

Department of the Treasury
Internal Revenue Service

Return of Organization Exempt From Income Tax

Under section 501(c) of the Internal Revenue Code (except black lung benefit trust or private foundation), section 527, or section 4947(a)(1) nonexempt charitable trust

▶ The organization may have to use a copy of this return to satisfy state reporting requirements

OMB No 1545-0047

2000

Open to Public Inspection

A For the 2000 calendar year, or tax year period beginning July 1, 2000, and ending June 30, 2001

B Check if applicable: ☐ Change of address ☐ Change of name ☐ Initial return ☐ Final return ☐ Amended return

Please use IRS label or print or type. See Specific Instructions.

C Name of organization: KCTS TELEVISION

Number and street (or P O box if mail is not delivered to street address): 401 Mercer Street | Room/suite:

City or town, state or country, and ZIP code: Seattle, WA 98109-4640

D Employer identification number: 91 1221895

E Telephone number: (206) 728-6463

F Check ▶ ☐ if application pending

G Organization type (check only one) ▶ ☒ 501(c)(3) ◀ (insert no) ☐ 527 or ☐ 4947(a)(1)

• Section 501(c)(3) organizations and 4947(a)(1) nonexempt charitable trusts must attach a completed Schedule A (Form 990 or 990-EZ)

J Accounting method ☐ Cash ☒ Accrual ☐ Other (specify) ▶

K Check here ▶ ☐ if the organization's gross receipts are normally not more than $25,000 The organization need not file a return with the IRS but if the organization received a Form 990 Package in the mail it should file a return without financial data Some states require a complete return

Note H and I are not applicable to section 527 orgs

H(a) Is this a group return for affiliates? ☐ Yes ☒ No

H(b) If "Yes" enter number of affiliates ▶

H(c) Are all affiliates included? ☐ Yes ☐ No (If "No" attach a list See inst)

H(d) Is this a separate return filed by an organization covered by a group ruling? ☐ Yes ☒ No

I Enter 4 digit group exemption no (GEN) ▶

L Check this box if the organization is not required to attach Schedule B (Form 990 or 990 EZ) ▶ ☐

Part I Revenue, Expenses, and Changes in Net Assets or Fund Balances (See Specific Instructions on page 16)

1	Contributions gifts grants and similar amounts received				
a	Direct public support	1a	18,664,135		
b	Indirect public support	1b	0		
c	Government contributions (grants)	1c	485,793		
d	Total (add lines 1a through 1c) (cash $ 18,515,416 noncash $ 634,512)			1d	19,149,928
2	Program service revenue including government fees and contracts (from Part VII line 93)			2	649,532
3	Membership dues and assessments			3	0
4	Interest on savings and temporary cash investments			4	84,219
5	Dividends and interest from securities			5	333,863
6a	Gross rents	6a	0		
b	Less rental expenses	6b	0		
c	Net rental income or (loss) (subtract line 6b from line 6a)			6c	0
7	Other investment income (describe ▶)			7	0

		(A) Securities		(B) Other		
8a	Gross amount from sales of assets other than inventory	1,047,223	8a	0		
b	Less cost or other basis and sales expenses	1,048,548	8b	821		
c	Gain or (loss) (attach schedule)	(1,325)	8c	(821)		
d	Net gain or (loss) (combine line 8c columns (A) and (B))				8d	(2,146)

9	Special events and activities (attach schedule)				
a	Gross revenue (not including $ 2,308,011 of contributions reported on line 1a)	9a	1,630,559		
b	Less direct expenses other than fundraising expenses	9b	1,470,248		
c	Net income or (loss) from special events (subtract line 9b from line 9a)			9c	160,311
10a	Gross sales of inventory less returns and allowances	10a	17,655		
b	Less cost of goods sold	10b	18,529		
c	Gross profit or (loss) from sales of inventory (attach schedule) (subtract line 10b from line 10a)			10c	(874)
11	Other revenue (from Part VII, line 103)			11	483,477
12	Total revenue (add lines 1d 2 3 4 5 6c 7 8d 9c 10c and 11)			12	20,858,310
13	Program services (from line 44 column (B))			13	12,405,706
14	Management and general (from line 44 column (C))			14	3,408,675
15	Fundraising (from line 44 column (D))			15	4,134,370
16	Payments to affiliates (attach schedule)			16	
17	Total expenses (add lines 16 and 44 column (A))			17	19,948,751
18	Excess or (deficit) for the year (subtract line 17 from line 12)			18	909,559
19	Net assets or fund balances at beginning of year (from line 73, column (A))			19	13,561,960
20	Other changes in net assets or fund balances (attach explanation)			20	17,523
21	Net assets or fund balances at end of year (combine lines 18 19, and 20)			21	14,489,042

Expenses

Net Assets

ENVELOPE POSTMARK DATE MAY 15 2002

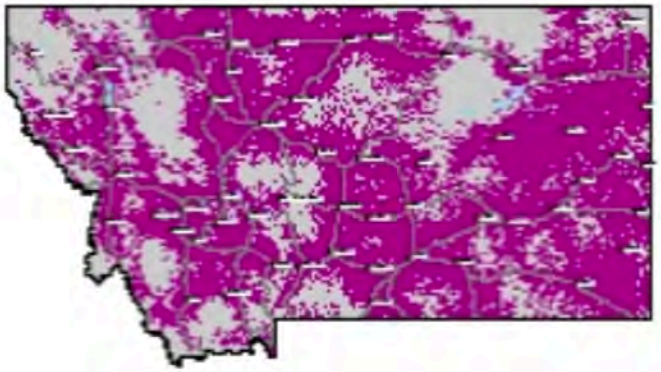
RECEIVED MAY 23 2002 OGDEN, UT IRS-OSC

ILMED JUN 26 '02

Mind the Gap

Havre
Zurich
Malta
Rocky Boys
Indian Reservation
Fort Belknap
Indian Reservation
Fort Benton
20mi
mapquest
2
87
191

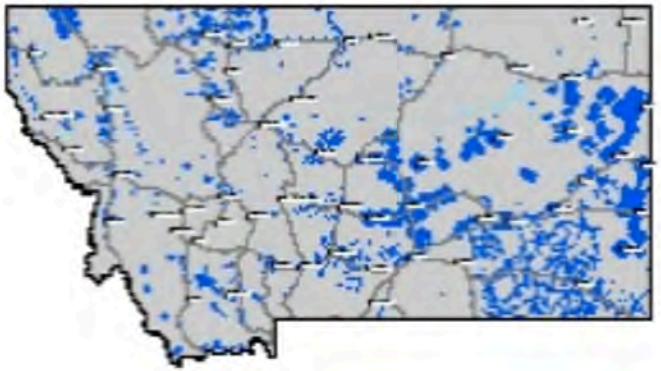
STCellularWireless



This map illustrates the availability of cellular wireless broadband internet service throughout Montana. Cellular wireless internet is broadcast from cellular towers to a cell phone or other mobile device without a physical connection. Please note that all cellular mobile wireless represents data only and not voice.

Download Full Map

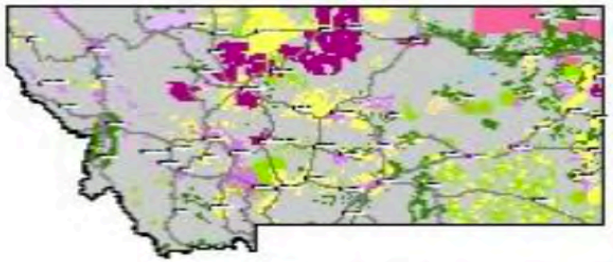
STDSLAvailability



This map illustrates the availability of DSL broadband internet service throughout Montana. DSL or digital subscriber line is a group of technologies that transmit digital data over the wires of a local telephone network. The DSL coverage in this map includes both asymmetric (ADSL) and symmetric (SDSL) technologies.

Download Full Map

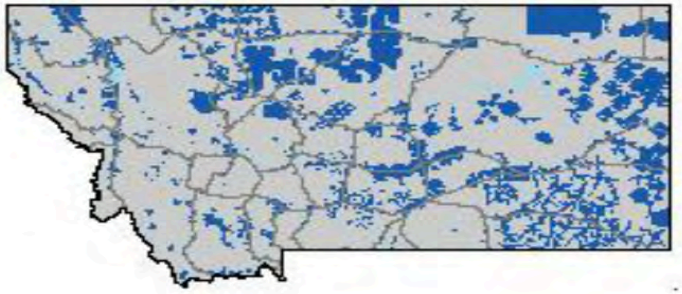
STSpeedMax



This map illustrates the maximum broadband internet speed in a given area for all broadband technologies (e.g., DSL, Cable Modem, Fiber, and Fixed Wireless) excluding mobile wireless. For example, if a given area has reported speeds of 1.5 mbps to 3 mbps, 3 mbps to 6 mbps, and 6 mbps to 10 mbps regardless of provider or type of technology, only the 6 mbps to 10 mbps would be displayed in the map.

Download Full Map

STWired



This map illustrates the availability of wired broadband internet service. Wired internet is defined as having a physical connection to the end user and includes DSL, cable modem, and fiber technologies.

Download Full Map

STWireless

This map illustrates the availability of wireless broadband internet service. Wireless internet includes broadband broadcast from cellular towers or fixed wireless which connects two fixed locations (e.g., buildings) with a radio or other wireless link. Please note that all cellular mobile wireless represents data only and not voice.

Download Full Map

Where is the story?

Audience Questions

Cheryl Phillips
Investigative Data Journalist; Hearst Professional in Residence, Graduate Program in Journalism, Stanford University