Improving Information Dissemination: "Cool New Tools for Accessing RMP Data"

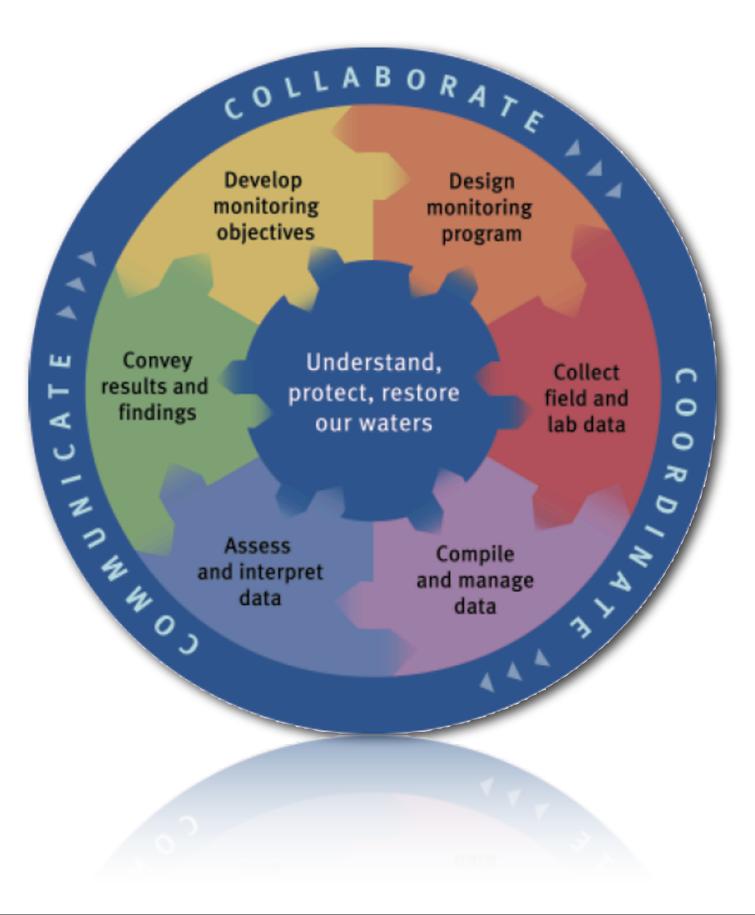
John J. Oram San Francisco Estuary Institute

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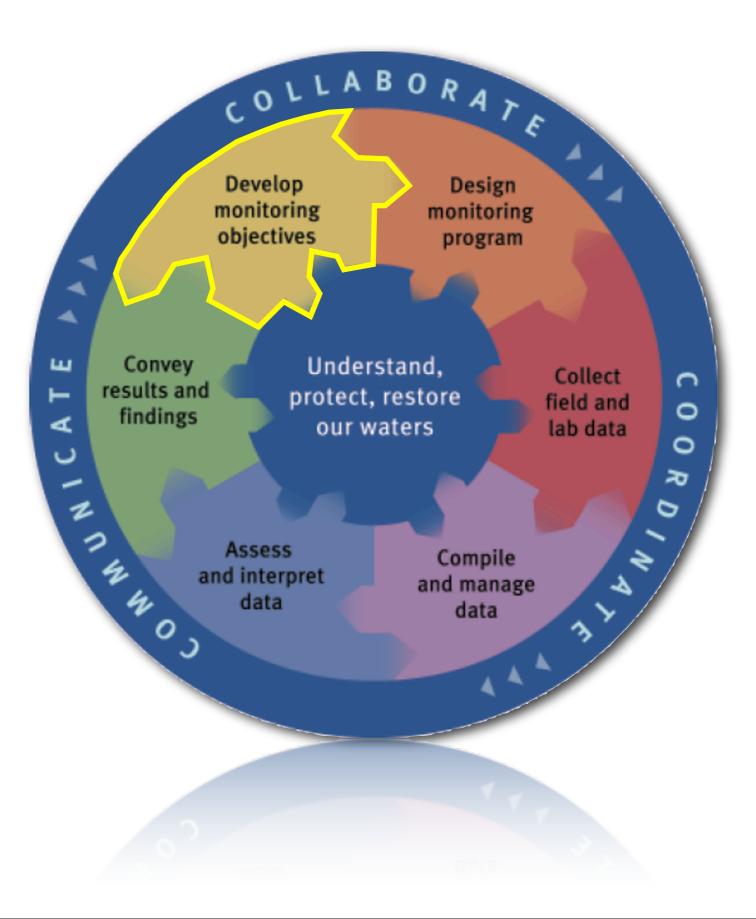
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Monitoring Framework

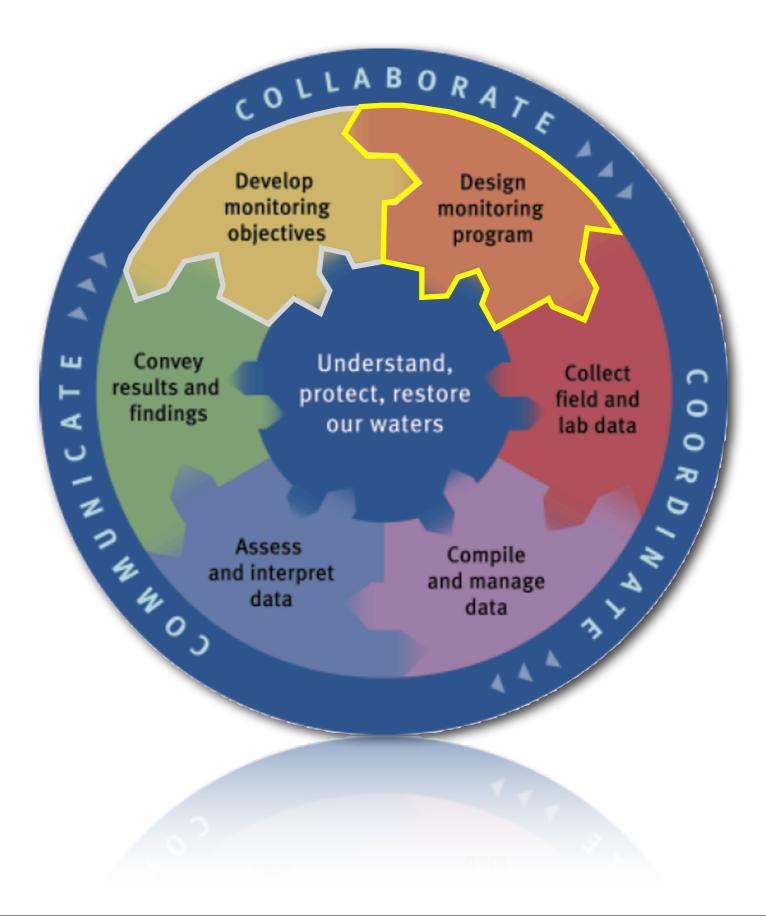
Source: National Water Quality Monitoring Council



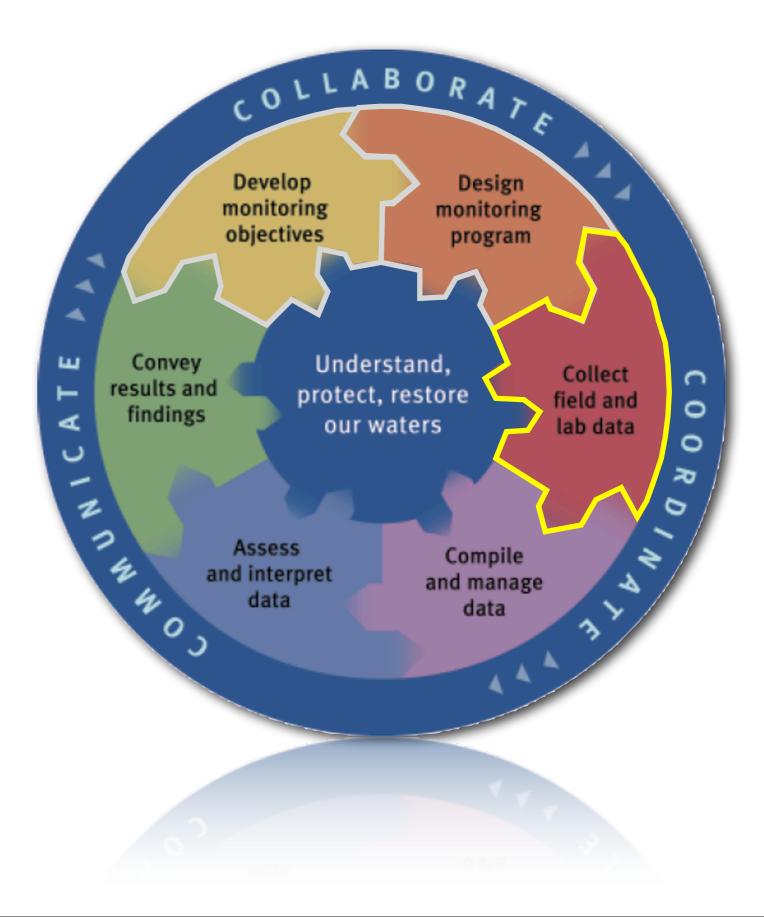
RMP monitoring objectives are formulated around set of Management Questions



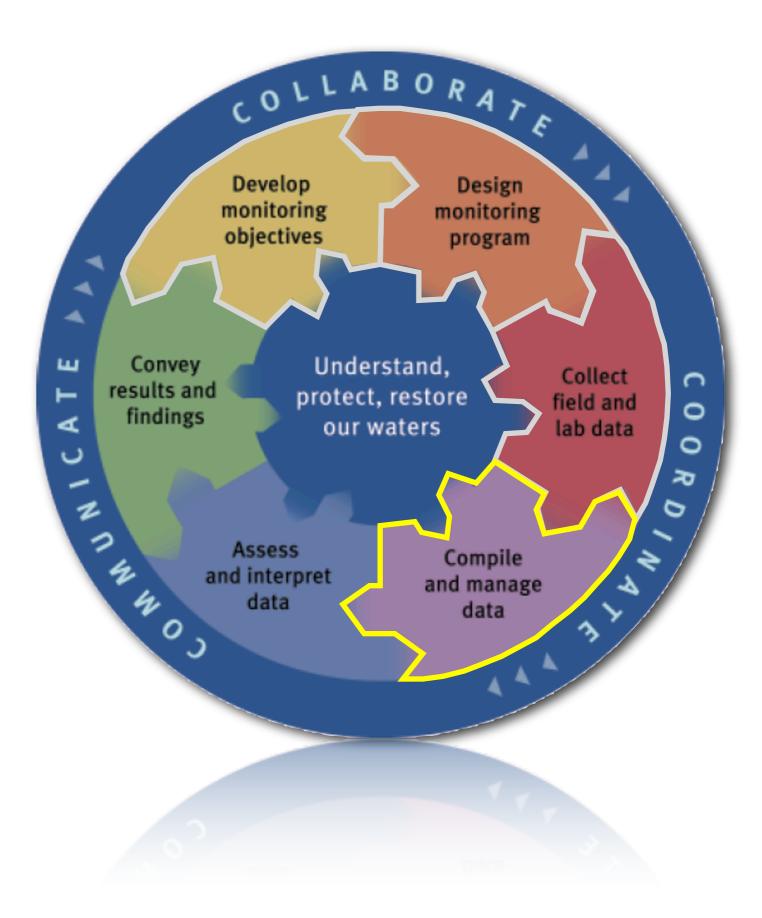
RMP sampling strategy designed to inform Management Questions



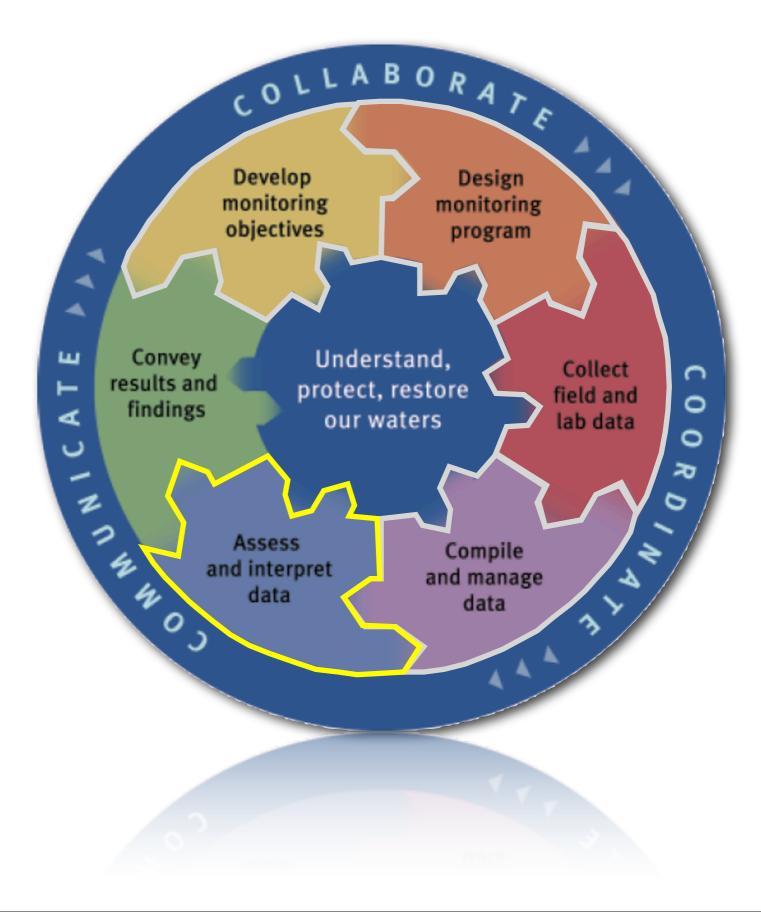
RMP conducts regular field studies and contracts with reputable labs for analysis



RMP data undergo rigorous QA/ QC before being compiled into local SWAMP comparable database.



RMP data are assessed and interpreted on a continuous basis.



RMP information is conveyed in print and online media.



SFEI and the RMP are experimenting with new methods of online information dissemination.

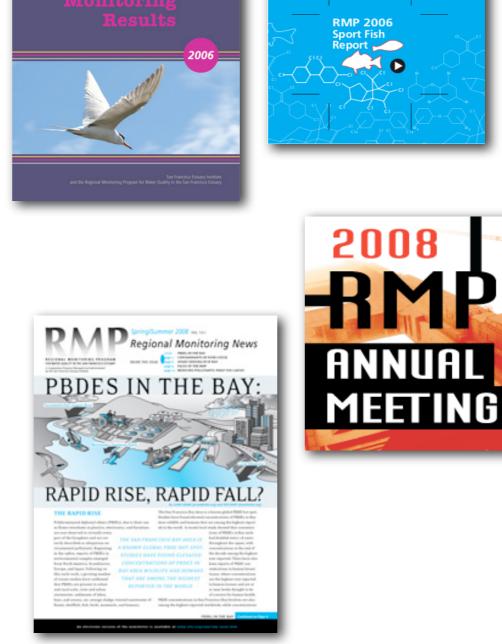




SFEI and the RMP are experimenting with new methods of online information dissemination.



- Things we do very well:
 - technical reports
 - technical memos
 - journal publications
 - newsletters
 - conferences / meetings





ting and Managing Water 2008

Quality in the San Francisco Estuary

MERCURY: Water Quality Enemy Number One





- Things we do very well:
 - technical reports



Are we getting the right message in front of the right people at the right time?

- newsletters
- conferences / meetings





- Things we do very well:
 - technical reports



Are we getting the right message in front of the right people at the right time?





So where can we improve?

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So where can we improve?

Web presence...

So where can we improve?

Web presence...



RMP: Home | Program Information | Meeting Minutes & Agendas | Status & Trends Monitoring | Pilot & Special Studies | Committees & Work Groups | Data Access | Documents | Glossary

Regional Monitoring Program (RMP)

The RMP is SFEI's largest program and monitors contamination in the Estuary. It provides water quality regulators information they need to manage the Estuary effectively. The RMP is an innovative collaborative effort between SFEI, the Regional Water Quality Control Board, and the regulated discharger community.For more details, view Program Information.

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Pilot & Special Studies (Got Ideas?) These studies allow the Program to adapt in response to changes in the regulatory landscape, advances in understanding of the Estuary, and a continual drive to adjust the Program to better meet its objectives.

Committees & Work Groups Workgroups consist of scientists and federal and state regulators who provide oversight and critical review of the pilot and special studies.

Data Access RMP water, sediment, bivalve, fish and special pilot studies data

Documents Current list of RMP Annual Reports, Technical Reports, Peer-Reviewed Reports, Presentations, and Posters.

Glossary Commonly used terms

New & Featured Items
5NEW 2
2008 Pulse of the Estuary
RMP 2006 Sport Fish Report
NWQM Pilot Study Report
Mercury Fate RFP
2007 RMP Annual Meeting
Presentations
View Presentations from 2008 Mercury Coordination Meeting
2007 Estuary News insert
RMP News
2006 Annual Monitoring Results
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Long-term Fate of PCBs in the San Francisco Bay Environmental Toxicology and Chemistry



So where can we improve?

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RMP Status & Trends Monitoring Data

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View and download Status and Trends data for San Francisco Estuary water, bottom sediment, and transplanted clam, mussel, and oyster tissue. For best results, it is recommended that you do not select more than one parameter type if searching for all years and all regions. <u>More information</u> (Questions/Comments)

Query Selection	
Test Material	Test Material
Collection Dates	Sediment
Parameter Type	O Tissue
Regions	Water Column Dissolved
Display Query Results	 Water Column Total Water Dissolved & Total (select for ancillary data) Water Toxicity
	Please select Test Material and then continue on to select <u>Collection Date</u> .





So where can we improve?

Web presence... Are we creating the right user experience?

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Test Material	Test Material
Collection Dates	Sediment
Parameter Type	O Tissue
Regions	Water Column Dissolved
Display Query Results	 Water Column Total Water Dissolved & Total (select for ancillary data)
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	Please select Test Material and then continue on to select <u>Collection Date</u> .

The old paradigm...





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The old paradigm...





The old paradigm...



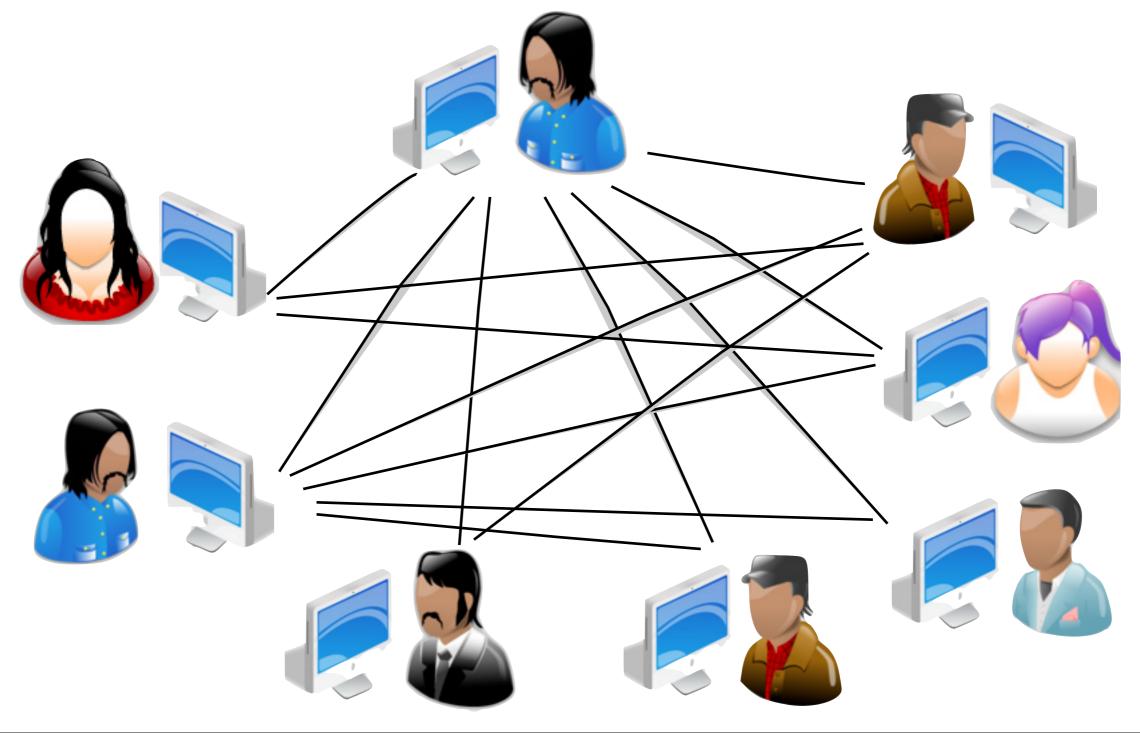








The new paradigm... collaborative information sharing





Collaborative information sharing is everywhere...





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$\Theta \Theta \Theta$ Carbon Dioxide Emissions (US) - Swivel \frown Examples... Confectionary Blog Help Feedback Sign Up! Sign In **Swivel** Home Graphs People Groups Upload Carbon Dioxide Emissions (US) Swivel Business By <u>huned</u> on Oct 05, 2006 Viewed 723 times Have you tried Swivel Business? Table Columns Comments **Data Summary** Showing last 6 rows and first 4 columns atural Gas 1999 256.4 101.0 752.2 1.110.9 165.3 47.2 9.6 1.3 2000 269.2 107.2 1.0 794.4 1,171.8 171.8 53.6 8.1 2001 259.0 105.8 1.1 802.5 1.168.3 164.9 54.0 8.6 2002 265.6 100.2 1.0 823.5 1,190.4 170.8 48.7 8.6 103.3 1,213.2 2003 276.9 832.0 175.4 53.9 7.9 0.9 2004 108.0 57.9 265.5 1.0 837.3 1,212.0 162.7 8.2 more... more... more... more.. more... more.... more... more ... more.. nload to spreadsheet See entire table > **Recent Comments** I uploaded this file on Thu Oct a Helena Cobban says 05 17:11:30 PDT 2006. I want to see agriculture and transportation, too. Where are they? Source posted about 1 year ago Add your comment | See all comments > Summary **Popular Graphs Time Series Data** Range 1949 to 2004 (55 years) 100% Scale Yearly 80% 60% 56 Rows Residential Total and Residential Total and Residential Total and Columns 11 **Commercial Electricity** Commercial Coal Commercial Petroleun Categories 1960 1970 1000 Science Society 97% related Residential Total and Commercial Total Tags **Column Summaries** carbon co2 dioxide emissions gasses globalwarming Show columns: 1 - 4 5 - 8 9 - 11 greenhouse unitedstates us usa sidential Natura Residential Coa Community Tags Add tags Gas Petrol no tags yet see all see all see all see all Download Source Data graphs graphs graphs graphs **Current Snapshot** Latest Complete Data 1949 to Max 110.9 Max 284.6 Max 203.4 **Previous Updates** Range 2004 22.3679 Avg 219.902 134.161 Ava Ava (55 years) Initial (3.5 kb) Oct 05, 2006 Min 0.9 Min 55.2 Min 85.1 Scale Yearly Sum 1,252.6 12,314.5 7,513.0 Sum Sum Like It Std Dev 28.72 Std Dev 62.79 Std Dev 37.49 Feature It See all columns >

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	2002	265.6	100.2	1.0	823.5	1,190.4	170.8	48.7	8.6	7
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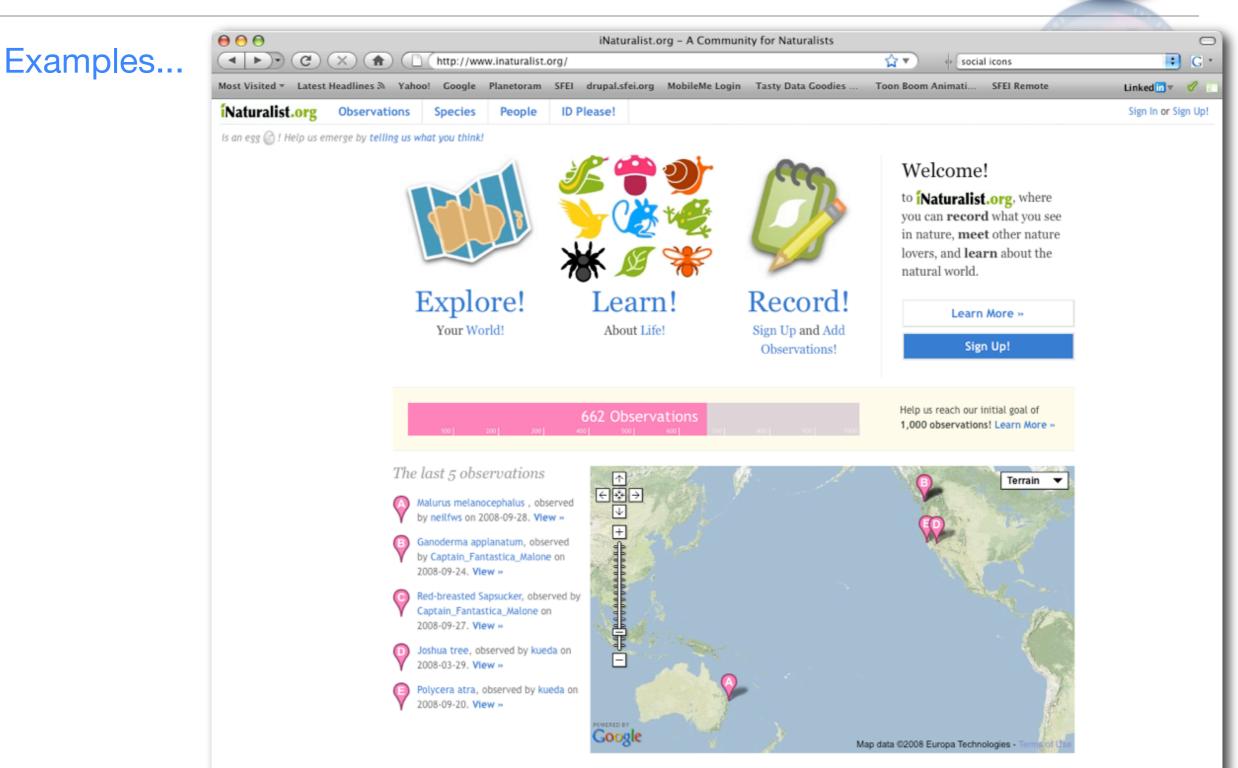
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	2	259.0	105.8	1.1	802.5	1,168.3	164.9	54.0	8.6	7		
The second second		265.6		1.0	823.5	1,190.4	170.8	48.7	8.6	7		
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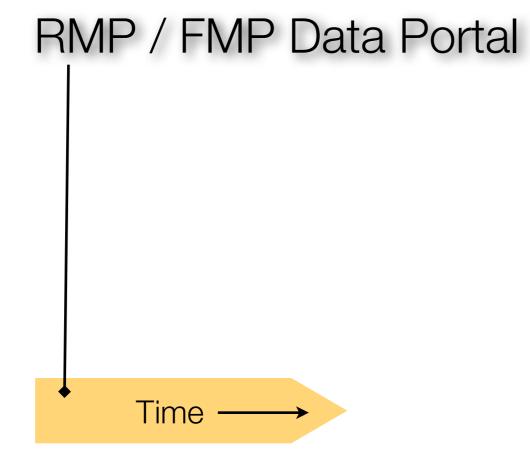
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How are we moving forward?



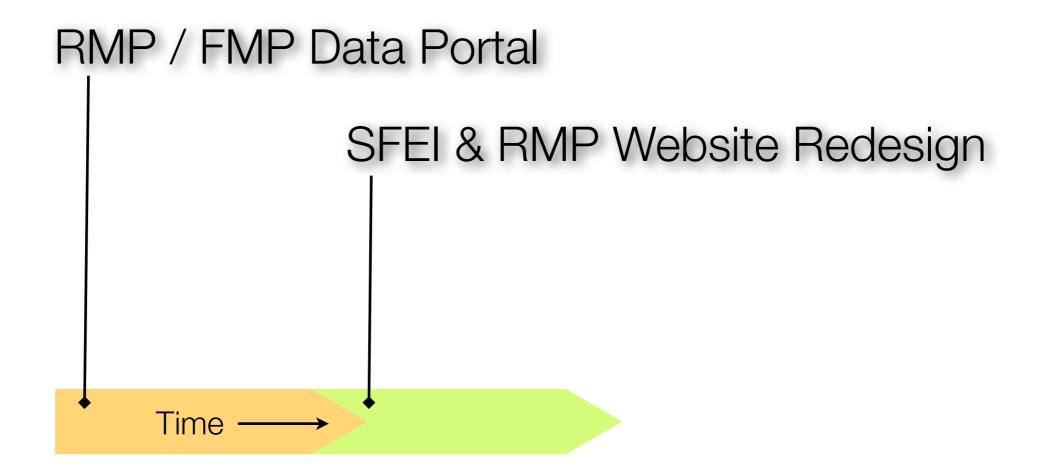


How are we moving forward?



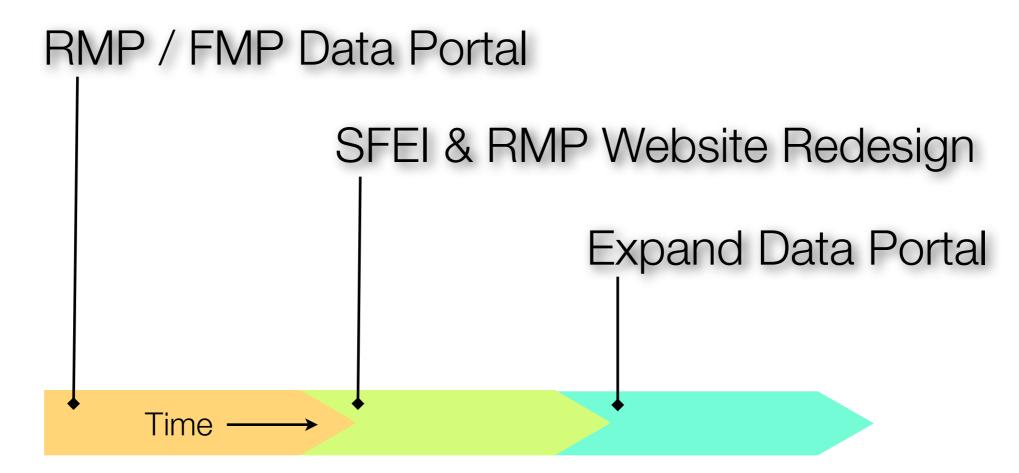


How are we moving forward?





How are we moving forward?



<u>Some related projects:</u> Wetland Tracker, CRAM, Volunteer Monitoring Program, San Joaquin Monitoring Directory

Towards an **expert system** ...





Towards an **expert system** ...

Question: What is the deal with Hg in San Francisco Bay?



Towards an **expert system** ...

Question: What is the deal with Hg in San Francisco Bay?

Desired Outcome:

Connections (links) to reports, news articles, data, projects, etc...



Towards an **expert system** ...

Question: What is the deal with Hg in San Francisco Bay?

Desired Outcome:

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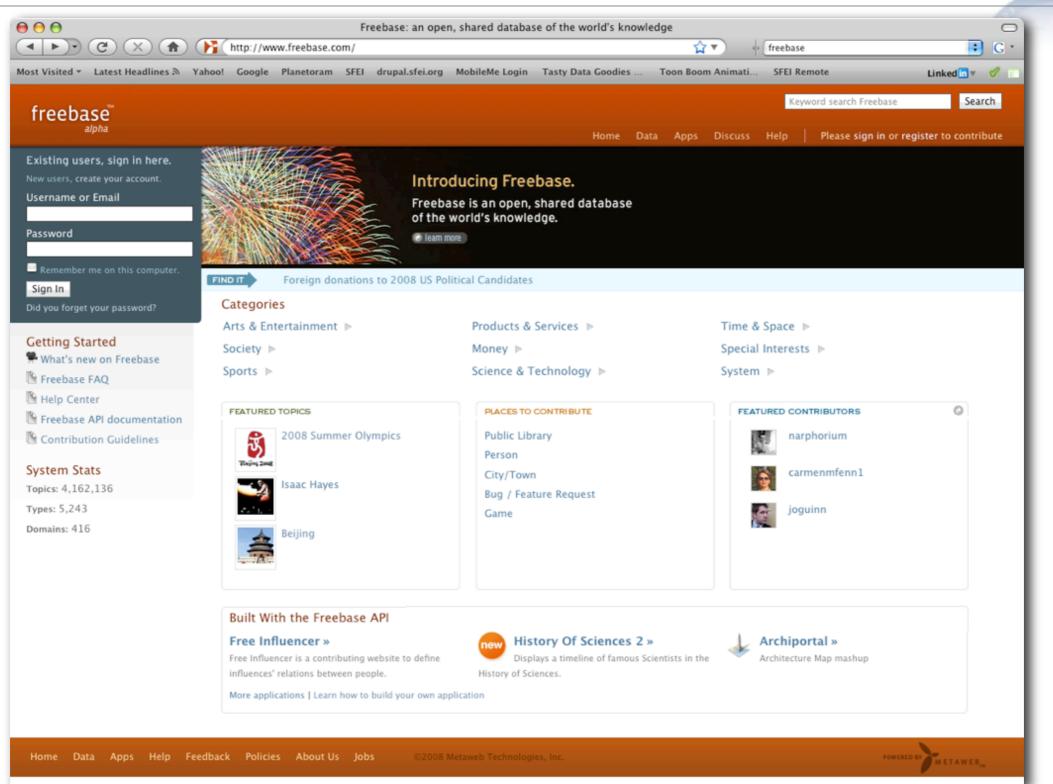
Problem:

No single resource can give this answer. Requires many, sometimes tedious, searches.



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1989 Loma Prieta earthquake - Wikipedia. t							





Towards an **expert system** ...





Towards an **expert system** ...

<u>Question</u>: What schools did the children of US Presidents attend?



Towards an **expert system** ...

<u>Question</u>: What schools did the children of US Presidents attend?

Desired Outcome:

Connections (links) to the schools and a map of their locations.



Towards an **expert system** ...

<u>Question</u>: What schools did the children of US Presidents attend?

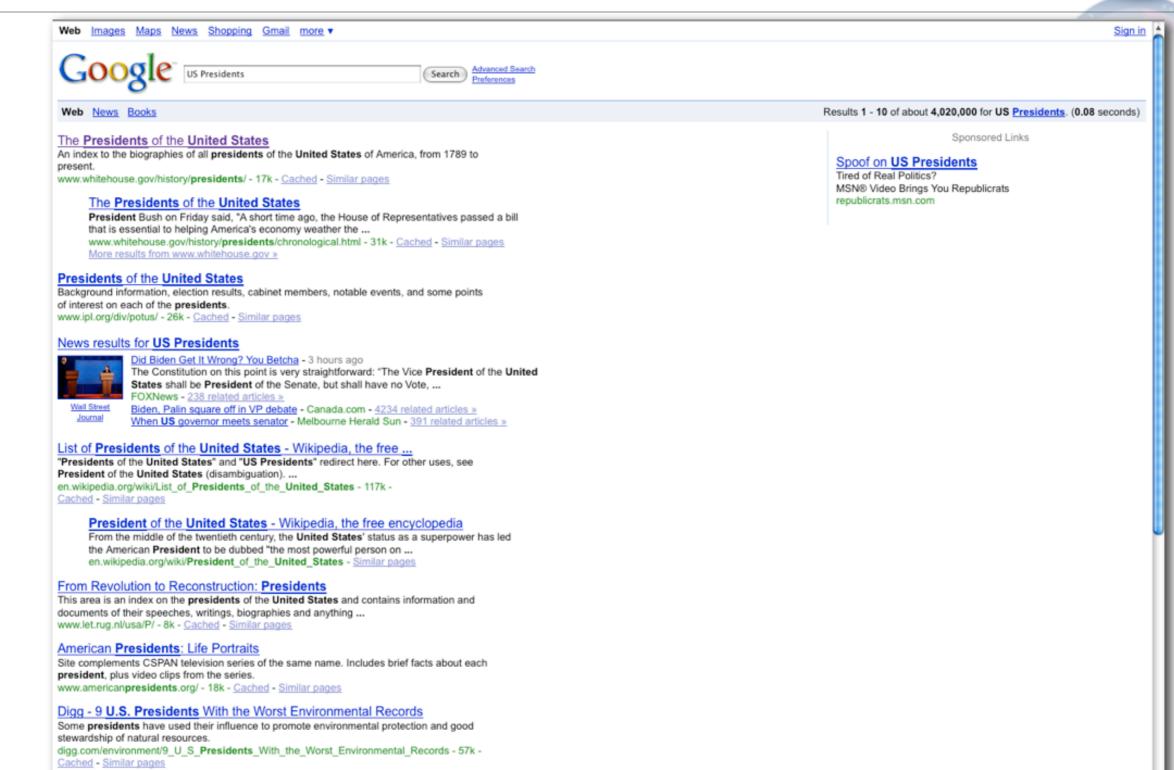
Desired Outcome:

Connections (links) to the schools and a map of their locations.

Make It More Interesting:

Only want children of Republican Presidents.





POTUS -- Presidents of the United States

Comprehensive site on the American presidency includes biographies, speeches and writings, election results, odd facts and presidency highlights.

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more filters >

Search within Results

Filter Results

Party

Working...

③ Types of Topic

Juggle (42) Juggle-Old (42) Person (42) Politician (42) Topic (42) US President (42) Deceased Person (38)

Institution

Harvard University (5) Harvard College (3) Princeton University (3) Yale Law School (3) Yale University (3) College of William and Mary (2) Columbia Law School (2)

more choices ... • settings >

B Place of birth map

Charles City County (2) Albemarle County (1) Barboursville (1) Blooming Grove (1) Braintree (1) Brookline (1) Caldwell (1)

Section map

Ohio (3) Boston (2) Braintree (2) Kentucky (2) Massachusetts (2) Midland (2)

US President: 42 topics

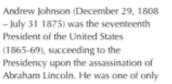
» embed these topics as thumbnails • as tiles

Abraham Lincoln

Abraham Lincoln (February 12, 1809 -April 15, 1865), the sixteenth President of the United States, successfully led his country through its greatest internal crisis, the Civil War, only to be assassinated less than a week after the war's end. Before his election as President, Lincoln was a lawyer, a



Andrew Johnson



two U.S. Presidents to be impeached and was narrowly acquitted. At the time of the secession of the Southern states, Johnson was a U.S. Senator from Greeneville in eastern Tennesse. As a

Benjamin Harrison

Benjamin Harrison (August 20 1833 -March 13 1901) was the twenty-third President of the United States, serving one term from 1889 to 1893. Harrison was born in North Bend, Ohio, and at

age 21 moved to Indianapolis, Indiana, where he became a prominent state politician. During the American Civil War Harrison served as a Brigadier General in the XXI Corps of the Army of the Cumberland. After the war he

Show results on: Map, Timeline • more »

Connections from the topics on this page: Spouse (94) Children (85) Parents (34) Sibling (32) Film (30)

more connections »

Bill Clinton

Andrew Jackson

Andrew Jackson (March 15, 1767 -

(1829-1837). He was military governor

of Florida (1821), commander of the

American forces at the Battle of New

of Jacksonian democracy. He was a

American politics in the 1820s and

polarizing figure who dominated

1830s. His political ambition

Orleans (1815), and eponym of the era

June 8, 1845) was the seventh

President of the United States

William Jefferson Clinton (born William Jefferson Blythe III on August 19 1946) served as the forty-second President of the United States from 1993 to 2001. He was the thirdyoungest president, older only than Theodore Roosevelt and John F. Kennedy. He became president at the end of the Cold War, and as he was born in the period after World War II, is known as the first Baby Boomer (1) (1) (1) (1) (1) (1) (2)

Chester A. Arthur

Chester Alan Arthur (October 5, 1829 -November 18, 1886) was an American politician who served as the twenty-first President of the United States. Arthur was a member of the Republican Party and worked as a lawyer before becoming the twentieth vice president under James Garfield. While Garfield was mortally wounded by Charles Guiteau on July 2, 1881, he did not die until September 19, at



BILL CLINTON

A REALISTIC APPROACH STUDENT GOVERNMENT

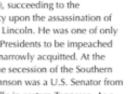




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Search within Results		Show results on: Map, Timeline • more »	Connections from the topics on
			this page:
	US President: 18 topics filtered from 42 originally		Children (62)
Filter Results	* embed these topics as thumbnails • as tiles		Spouse (40) Parents (13)
more filte			Sibling (12)
Party reset			Institution (24)
Republican Party (18) remove	Abraham Lincoln	Benjamin Harrison	more connections >
Democratic Party (15) add	Abraham Lincoln (February 12, 1809 –	Benjamin Harrison (August 20 1833 –	
Democratic-Republican Party (6) add	April 15, 1865), the sixteenth President	March 13 1901) was the twenty-third	
Whig Party (6) add	of the United States, successfully led	President of the United States, serving	
Anti-Masonic Party (2) add	his country through its greatest internal	one term from 1889 to 1893, Harrison	
Federalist Party (2) add	crisis, the Civil War, only to be	was born in North Bend, Ohio, and at	
National Union Party (2) add	assassinated less than a week after the	age 21 moved to Indianapolis, Indiana,	
more choices * settings »	war's end. Before his election as	where he became a prominent state	
man concert sensity a	President, Lincoln was a lawyer, a	politician. During the American Civil	
③ Types of Topic	member of the United States House of	War Harrison served as a Brigadier	
	Representatives, and an unsuccessful	General in the XXI Corps of the Army	
Juggle (18)	candidate for election to the Senate. As	of the Cumberland. After the war he	
Juggle-Old (18)		7.11. 7.11.1.3	
Person (18)			
Politician (18)			
Topic (18)	Chester A. Arthur	Calvin Coolidge	
US President (18) Political Appointer (17)	CHEMELA, ALUM	carvin coologe	
Folitical Appointer (17)	Chester Alan Arthur (October 5, 1829 –	John Calvin Coolidge, Jr. (July 4 1872 -	
more choices • settings >	November 18, 1886) was an American	January 5 1933) was the thirtieth	
	politician who served as the	President of the United States	
Institution	twenty-first President of the United	(1923–1929). A Republican lawyer	
Yale University (3)	States. Arthur was a member of the	from Vermont, Coolidge worked his	
Phillips Academy (2)	Republican Party and worked as a	way up the ladder of Massachusetts	
United States Military Academy (2)	lawyer before becoming the twentieth	state politics, eventually becoming	
Yale Law School (2)	vice president under James Garfield.	governor of that state. His actions	
Albany Law School (1)	While Garfield was mortally wounded	during the Boston Police Strike of 1919	
Amherst College (1)	by Charles Guiteau on July 2, 1881, he	thrust him into the national spotlight.	
Columbia Law School (1)	did not die until September 19, at	Soon after, he was elected as the	
more choices • settings =	1.1.1.1. 1.1. ·		
Place of birth map			
	Dwight D. Eisenhower	George H. W. Bush	
Blooming Grove (1)			
Cincinnati (1)	Dwight David Eisenhower (October	George Herbert Walker Bush (born	
Delaware (1)	14, 1890 – March 28, 1969),	June 12, 1924) is a retired American	
Denison (1) Fairfield (1)	nicknamed "Ike", was a General of the Army (five-star general officer) in the	politician who served as the forty-first President of the United States	

Bush held a multitude of political

positions, including Vice President of

the United States in the administration

of Ronald Reagan (1981-1989) and

director of the CIA. Bush was born in

who served as the 34th President of the

United States (1953-1961). During the

forces in Europe, with responsibility for

Second World War, he served as

Supreme Commander of the Allied

Location map

more choices... • settings >

Milton (1)





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		US President (18/42) Children
Search within Results		Show results on: Map, Timeline • more • Connections from the topics on
		this page:
	Person: 62 topics	Parents (29)
Filter Barrite	renom of topics	Place of death (9)
Filter Results	 embed these topics as thumbnails • as tiles 	Office, position, or title (4)
more filters a		Abraham Lincoln → Student (26) Place of birth (15)
Types of Topic	<u>Abraham Lincoln</u> →	Abraham Lincoln → Place of birth (15)
Person (62)	Robert Todd Lincoln	Tad Lincoln more connection
Topic (62)		
Deceased Person (19) NNIDP Person (17)	Robert Todd Lincoln (August 1, 1843 –	Thomas "Tad" Lincoln (April 4, 1853 -
NNDB Person (17) Politician (6)	July 26, 1926) was an American lawyer	July 15, 1871) was the fourth and
Military Person (4)	and politician, and the first son of	youngest son of President Abraham
Person (4)	President Abraham Lincoln and Mary	Lincoln and Mary Todd Lincoln.
reson (4)	Todd Lincoln. Born in Springfield,	During the time his father lived, Tad
more choices • settings ×	Illinois, United States, he was the only one of Lincoln's four sons to live past	was impulsive, unrestrained, and did not attend school. John Hay wrote that
	his teenage years. Lincoln graduated	Tad's numerous tutors in the White
Institution	from Phillips Exeter Academy in 1860,	House usually quit in frustration. Tad
Harvard University (5)	then studied at Harvard University	had free run of the White House, and
Yale University (5)	from 1861 to 1864, where he was a	there are stories of him interrupting
Columbia University (3)	1 Cost w E 1 a .	B 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Groton School (3)		
Phillips Academy (3)	Abraham Lincoln →	Abraham Lincoln →
Cornell University (2)		
Harvard Law School (2)		
more choices + settings >	William Wallace Lincoln	Edward Baker Lincoln
more concern neurige s	Million Mallon BMilliot Lincola	Edward Baker "Eddie" Lincoln (March
Parents	William Wallace "Willie" Lincoln	
	(December 21 1850 – February 20 1862) was the third son of Abraham	10, 1846 – February 1, 1850) was the second son of Abraham Lincoln and
Rutherford B. Hayes (8)	Lincoln and Mary Todd Lincoln.	Mary Todd Lincoln. He was named
James Garfield (7)	William Wallace Lincoln was born	after Lincoln's friend Edward Dickinson
George H. W. Bush (6)	about ten months after his brother	Baker. His mother spelled his name
Theodore Roosevelt (6)	Eddie died on February 1, 1850. He	"Eddie," while his father spelled it
Barbara Bush (5) Bonald Boardon (5)	was named after Dr. William Wallace,	"Eddy." Little is known about the
Ronald Reagan (5) Abraham Lincoln (4)	an in-law and physician who nursed	Lincoln's second boy, but there's a
Pavandin Lincom (9)	Eddie Lincoln in his final days.	surviving story that says one day during
more choices = settings =	Abraham Lincoln was frequently	a visit to Mary's family, Eddie's older
Spouse		
Henry Chase Hager (2)	Benjamin Harrison →	Benjamin Harrison →
Jenna Bush (2)		
Alice Roosevelt Longworth (1)	Description of the second s	
Belle Wyatt Roosevelt (1)	Russell Benjamin Harrison	Mary "Mamie" Scott Harrison McKee
Bobby Koch (1)		
Columba Bush (1)		

David Eisenhower (1) more choices... + settings >



New York (1)



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		US President (18/42) Children (62) Institution	
Search within Results		Show results on: Map, Timeline • more »	Connections from the topics or this page:
	Educational Institution: 30 topics		Finding connections
Filter Results	» embed these topics as thumbnails • as tiles		
more filters >			
Types of Topic	Robert Todd Lincoln, Kermit Roosevelt, Archibald Roosevelt →	Robert Taft, Robert Todd Lincoln →	
Educational Institution (30)	Harvard University	Harvard Law School	
Employer (30) Topic (30)			
Location (28)	Harvard University (incorporated as The President and Fellows of Harvard	Harvard Law School (also known as Harvard Law or HLS) is one of the professional graduate school of	
College/University (20)	College) is a private university in	Harvard Law or HLS) is one of the professional graduate school of	
Juggle (20)	Cambridge, Massachusetts, U.S., and a	Harvard University. Located in	
Juggle-Old (20)	member of the Ivy League. Founded in	Cambridge, Massachusetts, it is the	
more choices + settings +	1636 by the colonial Massachusetts		
more encourses - seconda a	legislature, Harvard is the oldest	United States' oldest law school in continuous operation. It is home to the	
Subsidiary Or Constituent Schools	institution of higher learning in the	largest academic law library in the	
	United States. It is also the first and	largest academic law library in the world. Harvard Law introduced what	
Barnard College (1) Columbia College of Columbia University in the City	oldest corporation in North America.	became the standard first-year	
of New York (1)	Initially called "New College" or "the	curriculum for American law schools	
Columbia University School of General Studies (1)			
Darden Graduate School of Business Administration	Robert Todd Lincoln, Ulysses S. Grant, $Ir_{i} \rightarrow$	John Coolidge →	
(1)	Concert read Entering Support Straining In		
Fu Foundation School of Engineering and Applied			
Science (1)	Phillips Exeter Academy	Amherst College	
Harvard Business School (1)	Phillips Exeter Academy (most	Amherst College is a highly selective,	
Harvard College (1)	commonly called Exeter, Phillips Exeter	private liberal arts college in Amherst,	
more choices * settings ×	or PEA) is a co-educational	Massachusetts, USA. Founded in 1821,	
	independent boarding school for	it is the third oldest college in	
Scolors	grades 9-12, located on 619 acres in	Massachusetts, and has been	
Blue (3)	Exeter, New Hampshire, U.S., fifty	coeducation since 1975. in 1821,	
Gold (2)	miles north of Boston. Some of the	Amherst College developed out of the	
Orange (2)	Academy's earlier alumni include:	secondary school Amherst Academy.	
White (2)	Daniel Webster (class of 1796), U.S.	The college was originally suggested as	
Black (1)	President Franklin Pierce (class of 1820), Robert Lincoln (class of 1860	a successor to Williams College, which was struggling to stay open. Although	
Cardinal (1)	1820), Robert Lincoln (class of 1860	was struggling to stay open. Although	
Carnelian (1)			
more choices • settings »	Frederick Dent Grant, John Eisenhower →	George W. Bush, Ron Reagan, Robert Taft →	
Gity/Iown	United States Military Academy	Yale University	
Andover (1)	Childen States Military Academy		
Concord (1)	The United States Military Academy	Yale University is a private university in	
Exeter (1)	(also known as USMA, West Point or,	New Haven, Connecticut. Founded in	
Farmington (1)	for collegiate athletic purposes, Army)	1701 as the Collegiate School, Yale is	
Logan (1)	is a United States Army post and	the third-oldest institution of higher	

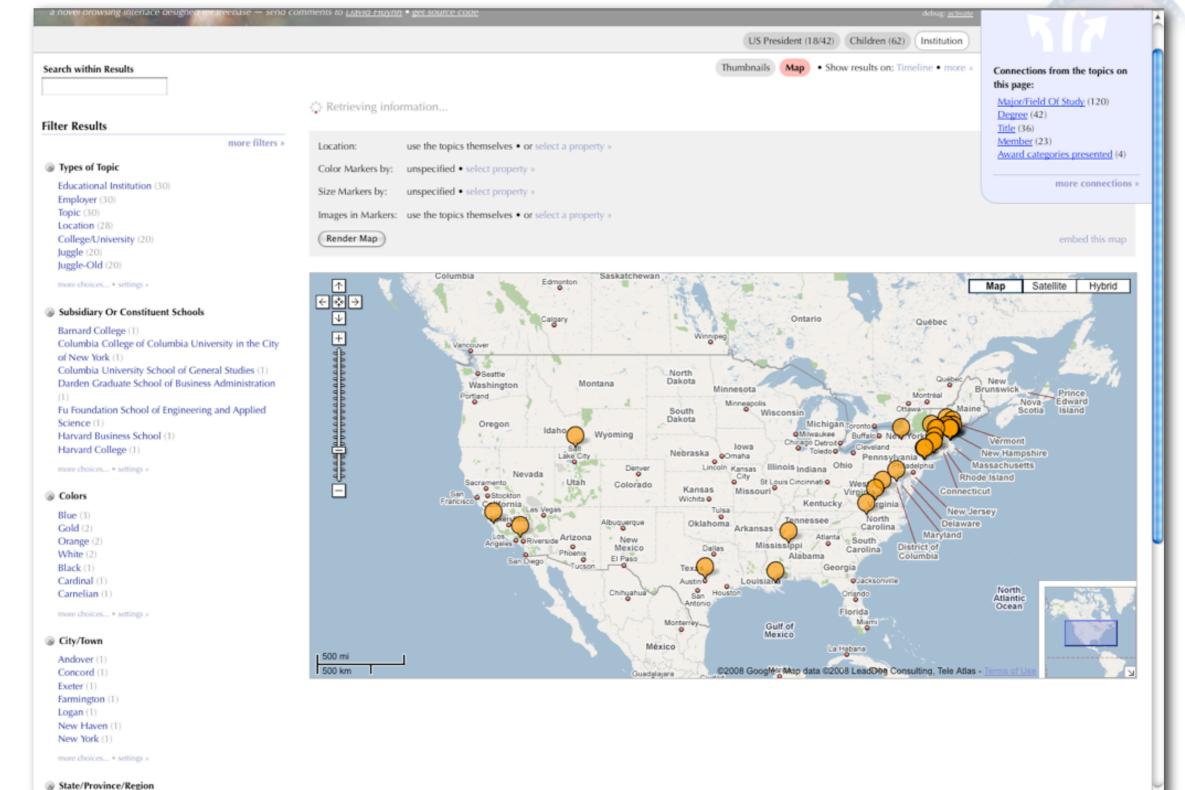
member of the Ivy League. Particularly

well-known are its undergraduat

first United States military post built

after the Declaration of Independence





Parting thoughts...





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Objectives:

- * To Improve Access to RMP Information
- * To Improve How We Collaborate With RMP Information





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Thank you