
**Socrata**
Making Data Social™

APDU Conference
September 21, 2010


Communicating Through Data
Know Your Audience



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Introduction to Socrata

**Socrata**
Making Data Social™

- ☐ Venture-backed, Seattle-based technology company
- ☐ Founded in 2007 with two goals
 - ☐ A robust, Internet-scale, cloud-based data platform
 - ☐ Making data easier to understand

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Why Am I Here Today?

Socrata
Making Data Social™

We've been powering the data consumption experience

The screenshot shows the Data.Medicare.gov website. The 'POPULAR DATASETS' section lists:

- Survey of Patients' Hospital Experiences (HCA...)** Mar 10, 2010 Visits 20620
- Hospital Outcome Of Care Measures** Mar 10, 2010 Visits 9653

The 'Nominations & Appointments' table lists the following data:

Name	Agency	Title/Role	Formal Nomination Date	Confirmation Date	Continued
1. Eric Cantor	USCIS	Representative of the United States	08/18/2010		
2. Nikolas, Doug	USCIS	Member United States Representative	08/18/2010		
3. Henderson, Jessica	USCIS	Representative of the United States	08/18/2010		
4. White, Roger P.	USCIS	Representative of the United States	08/18/2010		
5. Andre, Ben-Gurion	USCIS	Member, Mississippi River Corridor	08/18/2010		
6. Park, Thomas M.	USCIS	Member, National Medical Board	08/18/2010		
7. Munir, Kamran	USCIS	Chief of Mission, Islamic Republic of Iran	08/18/2010		
8. Thomas, Marissa K.	USCIS	Member (Judge)	08/18/2010		
9. Vinn, Vinn	USCIS	Chief of Mission, Republic of the Sudan	08/18/2010		
10. Rogers, David T.	USCIS	Member (Judge)	08/18/2010		
11. Lee, John Joseph	USCIS	Member	08/18/2010		
12. Davis, John	USCIS	Member	08/18/2010		

Winner of September 9, 2010 Data.Gov BPA Award

Who Consumes Data?

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Researchers → Bulk Data

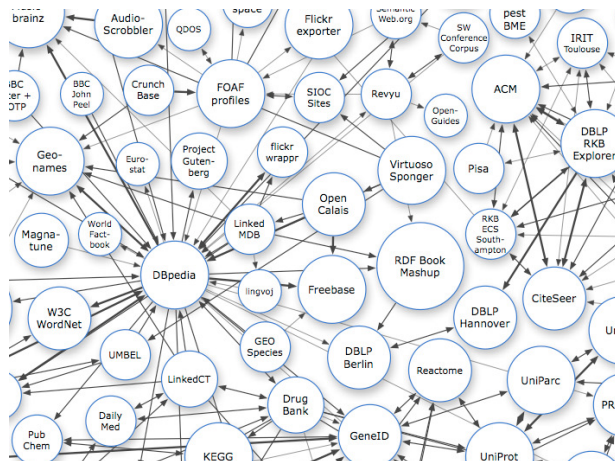
Programmers → API

The Rest of Us → Explore Data Interactively

The images illustrate three types of data consumers:

- Researchers:** A woman in a lab coat and safety glasses working with a pipette in a laboratory setting.
- Programmers:** A man in a jacket holding a tablet computer, standing next to a blue car.
- The Rest of Us:** A group of people sitting around a table in a meeting room, looking at laptops and a presentation screen.

And a 4th Data Consumer is Emerging



Something else on
the web itself – a web
page or application



Automate the discovery of
what something means –
give it context

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What Do Researchers Need?

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Smell the Food before Taking a Bite



Poke around and explore the data before downloading it

EPA Sampling Data: Response to the BP Oil Spill
Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico

What is Socrata? Help Sign Up Sign In

Find in this Dataset

Filter View Download Import Contact About

	DATE	MATRIX	SAMPLE NAME	LOCATION	STATE NAME	CAS NUMBER
1	September 07, 2010	Surface Water	T001-2350-100907-SW-02-2	2350-100907	Louisiana	577-11-7
2	September 07, 2010	Surface Water	T001-1341-100907-SW-04-1	1341-100907	Louisiana	577-11-7
3	September 07, 2010	Surface Water	T001-R659-100907-SW-05-1	R659-100907	Louisiana	577-11-7
4	September 06, 2010	Air	C05-20100905-1200-PUF	20100905-1200-PUF	Louisiana	219-01-9
5	September 06, 2010	Air	C05-20100905-1200-PUF	20100905-1200-PUF	Louisiana	56-55-3
6	September 06, 2010	Air	C05-20100905-1200-PUF	20100905-1200-PUF	Louisiana	53-70-3
7	September 06, 2010	Air	C05-20100905-1200-PUF	20100905-1200-PUF	Louisiana	91-20-3
8	September 06, 2010	Air	C05-20100905-1200-PUF	20100905-1200-PUF	Louisiana	193-39-5
9	September 06, 2010	Air	C05-20100905-1200-PUF	20100905-1200-PUF	Louisiana	50-32-8
10	September 06, 2010	Air	C05-20100905-1200-PUF	20100905-1200-PUF	Louisiana	207-08-9
11	September 06, 2010	Air	C05-20100905-1200-PUF	20100905-1200-PUF	Louisiana	205-99-2
12	September 06, 2010	Air	V03-20100905-1200-PUF	20100905-1200-PUF	Louisiana	91-20-3
13	September 06, 2010	Air	V03-20100905-1200-PUF	20100905-1200-PUF	Louisiana	56-55-3
14	September 06, 2010	Air	V03-20100905-1200-PUF	20100905-1200-PUF	Louisiana	53-70-3
15	September 06, 2010	Air	V03-20100905-1200-PUF	20100905-1200-PUF	Louisiana	193-39-5
16	September 06, 2010	Air	V03-20100905-1200-PUF	20100905-1200-PUF	Louisiana	50-32-8
17	September 06, 2010	Air	V03-20100905-1200-PUF	20100905-1200-PUF	Louisiana	219-01-9
18	September 06, 2010	Air	V03-20100905-1200-PUF	20100905-1200-PUF	Louisiana	205-99-2
19	September 06, 2010	Air	V03-20100905-1200-PUF	20100905-1200-PUF	Louisiana	207-08-9
20	September 06, 2010	Sediment	T001-R654-100906-SO-1	R654-100906	Louisiana	N/A
21	September 06, 2010	Surface Water	T001-R654-100906-SW-02-1	R654-100906	Louisiana	577-11-7
22	September 06, 2010	Surface Water	T008-1326-100906-SW-0-1	1326-100906	Louisiana	577-11-7
23	September 06, 2010	Sediment	T001-1338-100906-SO-1	1338-100906	Louisiana	N/A

About This Dataset

U.S. Environmental Protection Agency
created Jul 26, 2010
updated Sep 18, 2010

Description
Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico

Activity
Rating: ★★★★★
Raters: 0
Visits: 159
Comments: 0
Contributors: 0

Meta
Category: Government
Permissions: Public
Tags: epi, bp, oil, spill, air, water, sediment, waste, tar, mouse, city, debris, weathered oil
Links: <http://www.epa.gov/Government/EPA-Sampling-Data-Response-to-the-BP-Oil-Spill/>

Permalink: <http://www.socrata.com/Government/EPA-Sampling-Data-Response-to-the-BP-Oil-Spill/>

What is Socrata? Blog Company Info Terms of Service Privacy Contact Us

Rudimentary Online Analysis



Maybe avoid the download altogether

EPA Sampling Data: Response to the BP Oil Spill
Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico

What is Socrata? Help Sign Up Sign In

Find in this Dataset

Filter View Download Import Contact About

BER	SUBSTANCE	RESULT	UNIT	REPORTING LIMIT	REI
64	Nickel		mg/l		0.00700000 mg/l
65	Benzo[a]pyrene		ug/l		0.06500000 ug/l
66	Benzo[b]fluoranthene		ug/l		0.06100000 ug/l
67	Benzo[k]fluoranthene		ug/l		0.06800000 ug/l
68	Toluene		ug/l		0.43000000 ug/l
69	Benzene		ug/l		0.50000000 ug/l
70	Ethylbenzene		ug/l		0.55000000 ug/l
71	Xylene		ug/l		1.70000000 ug/l
72	Benzo[k]fluoranthene		ug/l		0.05600000 ug/l
73	Chrysene		ug/l		0.04500000 ug/l
74	Dibenz[a,h]anthracene		ug/l		0.06000000 ug/l
75	Fluoranthene		ug/l		0.04600000 ug/l
76	Fluorene		ug/l		0.06500000 ug/l
77	Indeno[1,2,3-cd]pyrene		ug/l		0.06100000 ug/l
78	Nickel		mg/l		0.00700000 mg/l
79	Bis(2-ethylhexyl) sodium sulfosuccinate		ug/L		20.00000000 ug/L
80	Benzo[a]anthracene		ug/l		0.04300000 ug/l
81	2-Methylnaphthalene	11.40000000	ug/kg		
82	Dibenz[a,h]anthracene		ug/kg		
83	Chrysene		ug/kg		
84	Benzo[k]fluoranthene		ug/kg		
85	Benzo[b]fluoranthene		ug/kg		
86	Benzo[a]pyrene		ug/kg		
87	Benzo[a]pyrene		ug/kg		
88	Ethylbenzene		ug/kg		
89	Benzene		ug/kg		
90	Nickel	54758873.4405513	mg/kg		

Filter, Sort, Roll-Up

You can filter a view down to certain rows; group rows together and summarize data with a roll-up; and sort one or more columns.


Filter
Match: all conditions
Column: LOCATION
Operator: equals
Value: T001-R660-100905-SW-01
Column: REPORTING...
Operator: greater than or equal to
Value: 0.05
Add Condition

Roll-Ups & Drill-Downs
Group By: CAS NUMBER
Add Grouping Column
Roll-Up: RESULT
Function: Average
Add Roll-Up Column

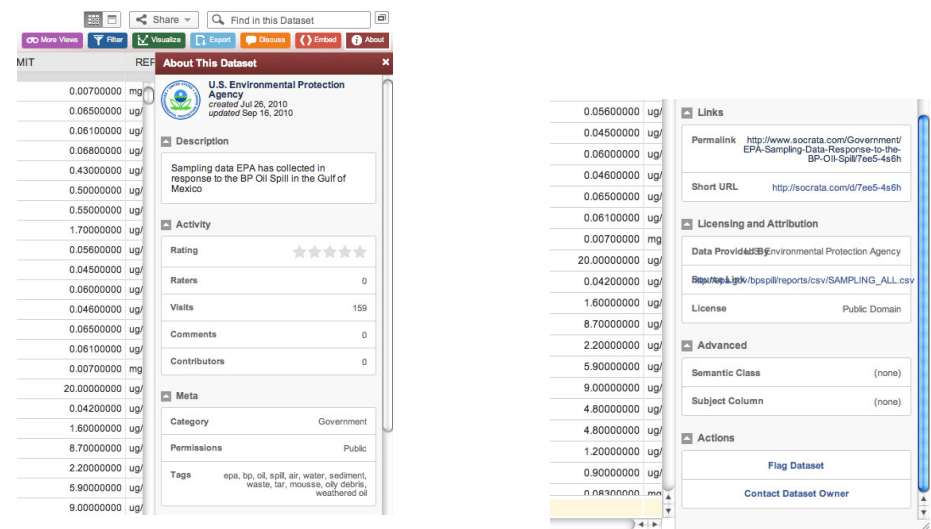
Sort
Column: DATE
Direction: Descending

Skip Done

Clean and Complete Metadata




Understand the dataset's attributes before downloading it

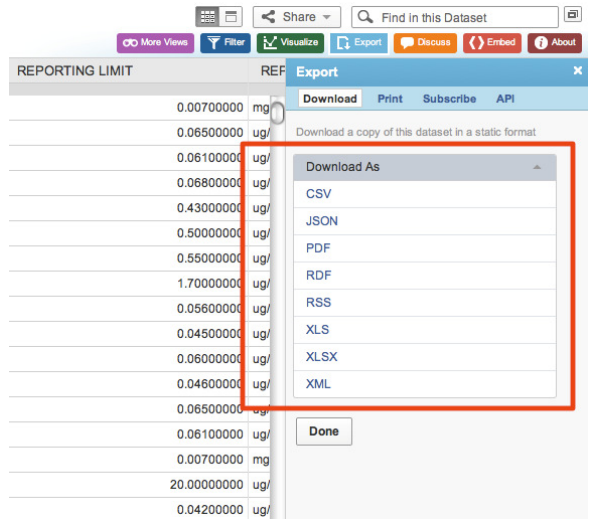


The screenshot shows the Socrata interface for a dataset titled 'U.S. Environmental Protection Agency'. The left sidebar contains a table of data with columns for numerical values and units (e.g., mg, ug). The main content area is divided into sections: 'About This Dataset' (including description, activity, rating, and meta-information), 'Links' (permalink and short URL), 'Licensing and Attribution' (data provider, license), and 'Advanced' (semantic class, subject column). The right sidebar contains a 'Flag Dataset' button and a 'Contact Dataset Owner' button.

Ability to Download the Data



Let me download the data in the format that works for me



The screenshot shows the Socrata interface for the same dataset. The 'Export' dropdown menu is open, displaying a list of download formats: CSV, JSON, PDF, RDF, RSS, XLS, XLSX, and XML. A red box highlights this list. Below the list is a 'Done' button. The background shows the same data table and metadata as the previous screenshot.

What Do Programmers Need?

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Smell the Food before Taking a Bite

Poke around and explore the data before accessing it programmatically

EPA Sampling Data: Response to the BP Oil Spill
 Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico

	DATE	MATRIX	SAMPLE NAME	LOCATION	STATE NAME	CAS NUMBER
1	September 07, 2010	Surface Water	T001-2350-100907-SW-Q2-2	2350-100907	Louisiana	577-11-7
2	September 07, 2010	Surface Water	T001-1341-100907-SW-Q4-1	LOCATION	Louisiana	577-11-7
3	September 07, 2010	Surface Water	T001-R659-100907-SW-Q5	The name or code that uniquely identifies the station at which the sample was collected	Louisiana	577-11-7
4	September 06, 2010	Air	C05-20100905-1200-PUF	Plain Text	Louisiana	218-01-9
5	September 06, 2010	Air	C05-20100905-1200-PUF		Louisiana	55-55-3
6	September 06, 2010	Air	C05-20100905-1200-PUF	C05	Louisiana	53-70-3
7	September 06, 2010	Air	C05-20100905-1200-PUF	C05	Louisiana	91-20-3
8	September 06, 2010	Air	C05-20100905-1200-PUF	C05	Louisiana	193-39-5
9	September 06, 2010	Air	C05-20100905-1200-PUF	C05	Louisiana	50-32-8
10	September 06, 2010	Air	C05-20100905-1200-PUF	C05	Louisiana	207-08-9
11	September 06, 2010	Air	C05-20100905-1200-PUF	C05	Louisiana	205-99-2
12	September 06, 2010	Air	V03-20100905-1200-PUF	V03	Louisiana	91-20-3
13	September 06, 2010	Air	V03-20100905-1200-PUF	V03	Louisiana	55-55-3
14	September 06, 2010	Air	V03-20100905-1200-PUF	V03	Louisiana	53-70-3
15	September 06, 2010	Air	V03-20100905-1200-PUF	V03	Louisiana	193-39-5
16	September 06, 2010	Air	V03-20100905-1200-PUF	V03	Louisiana	50-32-8
17	September 06, 2010	Air	V03-20100905-1200-PUF	V03	Louisiana	218-01-9
18	September 06, 2010	Air	V03-20100905-1200-PUF	V03	Louisiana	205-99-2
19	September 06, 2010	Air	V03-20100905-1200-PUF	V03	Louisiana	207-08-9
20	September 06, 2010	Sediment	T001-R654-100906-SW-Q2-1	R654-100906	Louisiana	N/A
21	September 06, 2010	Surface Water	T001-R654-100906-SW-Q2-1	R654-100906	Louisiana	577-11-7
22	September 06, 2010	Surface Water	T008-1326-100906-SW-5-1	1326-100906	Louisiana	577-11-7
23	September 06, 2010	Sediment	T001-1338-100906-SW-1	1338-100906	Louisiana	N/A

About This Dataset

U.S. Environmental Protection Agency
 created Jul 26, 2010
 updated Sep 19, 2010

Description
 Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico

Activity
 Rating: ★★★★★
 Ratings: 0
 Visits: 159
 Comments: 0
 Contributors: 0

Meta
 Category: Government
 Permissions: Public
 Tags: epi, bp, oil, spill, air, water, sediment, waste, tar, mousse, city debris, weathered oil

Links
 Permalink: <http://www.socrata.com/Government/EPA-Sampling-Data-Response-to-the-BP-Oil-Spill-in-the-Gulf-of-Mexico>

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Let me create a view that only contains what I need

What is Socrata? Help Sign In

EPA Sampling Data: Response to the BP Oil Spill
Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico

More Views Filter Visualize Export Discuss Embed About

DATE	MATRIX	SAMPLE NAME	LOCATION	STATE NAME	CAS NUMBER	SUBSTANCE	RESU
04 September 05, 2K Surface Water		1 R680-109005	Mississippi	7440-02-0	Nickel		
05 September 05, 2K Surface Water			Mississippi	50-32-8	Benzo(a)pyrene		
06 September 05, 2K Surface Water			Mississippi	205-99-2	Benzo(b)fluoranthene		
07 September 05, 2K Surface Water			Mississippi	191-24-2	Benzo(g,h,i)perylene		
08 September 05, 2K Surface Water			Mississippi	108-88-3	Toluene		
09 September 05, 2K Surface Water			Mississippi	71-43-2	Benzene		
70 September 05, 2K Surface Water			Mississippi	100-41-4	Ethylbenzene		
71 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
72 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
73 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
74 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
75 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
76 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
77 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
78 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
79 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
80 September 05, 2K Surface Water			Mississippi	100-28-3	Styrene		
81 September 05, 2K Sediment			Louisiana	100-28-3	Styrene		
82 September 05, 2K Sediment			Louisiana	100-28-3	Styrene		
83 September 05, 2K Sediment			Louisiana	100-28-3	Styrene		
84 September 05, 2K Sediment			Louisiana	100-28-3	Styrene		
85 September 05, 2K Sediment			Louisiana	100-28-3	Styrene		
86 September 05, 2K Sediment			Louisiana	100-28-3	Styrene		
Totals							

Save view

Enter a name for your new view:

Oily Debris

Save Cancel

Clean and Complete Metadata


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Understand the dataset's attributes before downloading it

Find in This Dataset
Share

More Views
Filter
Visualize
Export
Discuss
Embed
About

MIT REF About This Dataset

	U.S. Environmental Protection Agency created Jul 26, 2010 updated Sep 16, 2010
0.00700000 ug	
0.06500000 ug	
0.06100000 ug	
0.06800000 ug	
0.43000000 ug	
0.50000000 ug	
0.55000000 ug	
1.70000000 ug	
0.05600000 ug	
0.04500000 ug	
0.06000000 ug	
0.04600000 ug	
0.06500000 ug	
0.06100000 ug	
0.00700000 mg	
20.00000000 ug	
0.04200000 ug	
1.60000000 ug	
8.70000000 ug	
2.20000000 ug	
5.90000000 ug	
9.00000000 ug	

Description

Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico

Activity

Rating: ★★★★★

Raters: 0

Visits: 159

Comments: 0

Contributors: 0

Meta

Category: Government

Permissions: Public

Tags: epa, bp, oil spill, air, water, sediment, waste, tar, mousse, oily debris, weathered oil

0.05600000 ug
0.04500000 ug
0.06000000 ug
0.04600000 ug
0.06500000 ug
0.06100000 ug
0.00700000 mg
20.00000000 ug
0.04200000 ug
1.60000000 ug
8.70000000 ug
2.20000000 ug
5.90000000 ug
9.00000000 ug
4.80000000 ug
4.80000000 ug
1.20000000 ug
0.90000000 ug
0.00000000 ug

Links

Permalink: <http://www.aocrata.com/Government/EPA-Sampling-Data-Response-to-the-BP-Oil-Spill/7ee5-4e6h>

Short URL: <http://isocrata.com/id/7ee5-4e6h>

Licensing and Attribution

Data Provided by: U.S. Environmental Protection Agency

Report Link: https://epa.gov/bpspl/reports/csv/SAMPLING_ALL.csv

License: Public Domain

Advanced

Semantic Class: (none)

Subject Column: (none)

Actions

Flag Dataset

Contact Dataset Owner

An Application Programming Interface



Give me a modern, standards-based API into the filtered view I created

The screenshot shows the Socrata Open Data API console for the dataset "EPA Sampling Data: Response to the BP Oil Spill". The console displays a table of data with columns: DATE, MATRIX, SAMPLE NAME, LOCATION, STATE NAME, and CAS NUMBER. The table contains 10 rows of data. Below the table, the console shows the API endpoint: `soda> get("/views/7ee5-456h/rows.json?max_rows=1")`. The console also displays the API response, which includes metadata about the dataset and the API endpoint. A red arrow points to the "API" button in the top right corner of the console.

DATE	MATRIX	SAMPLE NAME	LOCATION	STATE NAME	CAS NUMBER
64	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	7440-02-0
65	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	50-32-6
66	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	205-99-2
67	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	191-24-2
68	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	108-68-3
69	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	71-43-2
70	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	100-41-4
71	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	1330-20-7
72	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	207-08-9
73	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	218-01-9
74	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	53-70-3
75	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	206-44-0
76	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	86-73-7
77	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	193-39-6
78	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	56-65-3
79	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	91-67-6
80	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	53-70-3
81	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	218-01-9
82	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	207-08-9
83	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	191-24-2
84	September 05, 2L Surface Water	T001-R680-100905-SW-06-1	R680-100905	Mississippi	205-99-2

Welcome to the Socrata Open Data API console. Type help for help.
`soda> get("/views/7ee5-456h/rows.json?max_rows=1")`

```
{
  meta: {
    id: "7ee5-456h",
    name: "EPA Sampling Data: Response to the BP Oil Spill",
    attribution: "U.S. Environmental Protection Agency",
    attributionLink: "http://epa.gov/bpapi11/reports/csv/SAMPLING_ALL.csv",
    averageRating: 0,
    category: "Government",
    copyCount: 0,
    createdAt: 1280171467,
    description: "Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico",
    domainName: "",
    licenseId: "PUBLIC_DOMAIN",
    numberOfComments: 0,
    old: 302066,
    rowUpdatedAt: 1284649889,
    rowUpdatedBy: "yash-crgu",
    signed: false,
    tableId: 218410,
    totalUpdated: 0,
  }
}
```

API Access Endpoint:
http://www.socrata.com/api/views/7ee5-456h/rows.json?max_rows=1

Robust Developer Resources



Jump start me with sample code, documentation and videos

The screenshot shows the Socrata Open Data API developers page. The page has a navigation bar with links: Home, Getting Started, API Reference, Developer Blog, and Discussion. The main content area features a large heading "Build something with public data." and four icons representing different developer resources: Getting Started, API Authentication, Test Drive The API, and Submit Your App. The footer includes the Socrata logo, a Creative Commons Attribution 3.0 United States License, and social media links for Facebook and Twitter.

Build something with public data.

Getting Started API Authentication Test Drive The API Submit Your App

POWERED BY: Socrata Making Data Social

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Facebook Twitter

A First Class Developer Console



Let me explore the API interactively with real data

SODA Console

The Socrata Open Data API console allows you to experiment with API calls without writing a single line of code. Using our simple syntax, you can experiment with different calls and parameters before building a larger application.

Supported Calls

The SODA Console currently supports the following operations:

- `get("[Service Path]([Parameters])")`: Performs a GET request and returns the server's response.
- `post("[Service Path]([Parameters])", "[Request Body]")`: Performs a POST request and returns the server's response

Welcome to the Socrata Open Data API console. Type help for help.

```
soda get("/views/dm-mem.json")
```

```
{
  id: "nsm-mem",
  name: "The White House - Nominations & Appointments",
  averageRating: 100,
  category: "Government",
  copyCount: 2,
  createdAt: 1243376954,
  domainClass: "",
  numberOfComments: 2,
  oid: 284216,
  rowsUpdatedAt: 1284690776,
  rowsUpdatedBy: "shnt-u12",
  signed: false,
  tableId: 20902,
  totalTimeRated: 1,
  viewCount: 273826,
  viewLastModified: 1284690803,
  viewType: "tabular",
  columns: [
  ]
}
```

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A Vibrant Developer Community



Let me get help from the community, including developers of the API

get satisfaction

Log in or sign up Find products and companies

Socrata
Making Data Social™

Community / Products / The Socrata Open Data API

Search topics Q OR Start a topic

Topics about the product: "The Socrata Open Data API"

RECENTLY ACTIVE TOPICS

Faceted Browsing with API?
expectationist asked · 3 replies · Last reply 18 days ago by Chris Metcalf

API Parameters documentation?
Ray Strong asked · 4 replies · Last reply 3 months ago by Chris Metcalf

Import data in Socrates
info asked · 1 reply · Last reply 4 months ago by Chris Metcalf

Correlating data and metadata
Marc Hadley asked · 2 replies · Last reply 4 months ago by Marc Hadley

Title?
Chris Metcalf asked · 0 replies · Posted 5 months ago

API Examples using Medicare Data and PHP script?
DC Epicenter asked · 3 replies · Last reply 5 months ago by DC Epicenter

Automation capabilities
Thomas Kinsel asked · 3 replies · Last reply 6 months ago by Chris Metcalf


How can I access data views using javascript?
hellobot asked · 2 replies · Last reply 7 months ago by Chris Metcalf

THE SOCRATA OPEN DATA API LINKS

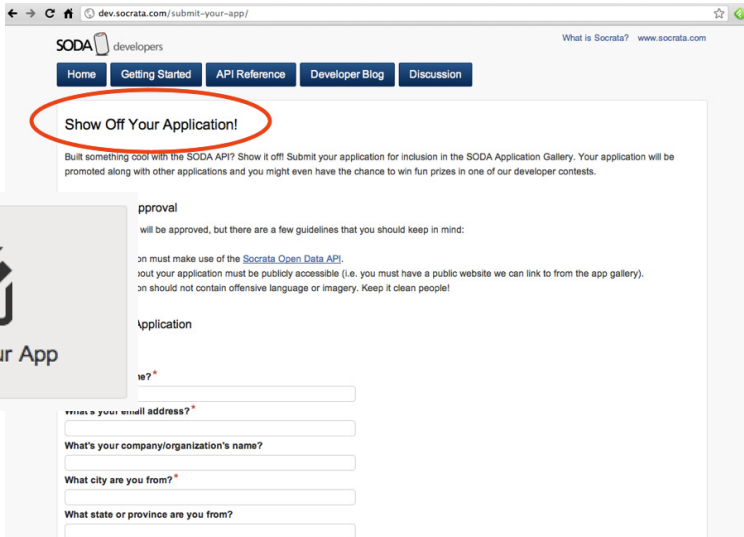
- API Documentation
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A Distribution Channel



Let me tell the world what I've made and maybe even share it with others





What Do the Rest of us Need?

20

Data Optimized for Human Consumption



Don't give me process optimized data – sanitize it for a first time experience

Socrata
Making Data Social

Unclaimed bank accounts
A list of all the abandoned bank accounts at branches in the Edmonton area and/or registered to addresses in

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	Last / Business Name	First Name	Balance	Address	City	Last Transaction	bank_name
1	LACASSE	ALPHONSE	\$0.00	28.28	Edmonton	06/10/1986	CANADIAN
2	PAYDI	PETER	9346.86	AVE NW	Edmonton	08/17/1995	ROYAL
3	FURTAT	VLADIMIR & VANETTE	67.51	0.34	CARLTON NSW 2218 AUS	10/01/1987	TORONTO
4	KELM	SELMA	67.51	0.34	Edmonton	09/08/1995	BANK OF
5	LIM	SU LENG	51,877.33	217 FERGUSON PL NW	Edmonton	11/16/1994	TORONTO
6	VIG	JOGINDER SINGH	50,254.01	SITE 216 BOX 70 RR 2	St. Albert	01/22/1988	ROYAL
7	MYKYTIUK	ROSE	47,714.39	17315 106 ST NW	Edmonton	01/29/1994	TORONTO
8	HIGER EDUCATION GROUP, UNA		41,615	UNIVERSITY OF REGINA	UNKNOWN ALTA	09/12/1995	ROYAL
9	ALLORE	LOUISE ANNE	38,165.3	56 RIVER ROCK CIRCLE SE	CALGARY AB	03/11/1993	CANADIAN
10	MOSCHANSKY	FLORENCE	37,968.21	606 EVERGREEN MOBILE HOME PARK	Edmonton	07/01/1994	ROYAL
11	WILLIAMSON	ROBERTA	37,500		Edmonton	11/18/1992	HSBC
12	INTER	EUROPEAN CONSULT	36,595.84	PARKFIELD 16 VICTORIA PK SHPL	WEST YORKSHIRE	10/23/1991	ROYAL
13	216194 HOLDINGS LTD. C/O MCL		33,890.3	12220 STONY PLAIN RD NW	Edmonton	01/03/1992	BANK OF
14	LEBLANC	EVA	32,900.03		Edmonton	11/17/1981	CANADIAN
15	BOONER	STEVE	28,316.11	10133 108 ST NW	Edmonton	11/18/1994	TORONTO
16	CENTURY INTERNATIONAL HOL		26,571.83	3507 - 104 STREET	Edmonton	01/25/1991	ROYAL
17	SCUDMORE	KERRY	26,133.31	PO BOX 667	GRAND MARAIS, MINNESOTA, USA	01/01/1995	HSBC
18	EHLSCHEID	LOTHAR OR EHLSCHE	24,226.08		UNKNOWN 7777	04/13/1978	ROYAL
19	HALL	NEVILLE D	23,415.33		UNKNOWN, UNKNOWN	01/07/1990	BANK OF
20	BATRAKI	TAHANY	23,112.96		UNKNOWN BC	12/21/1995	HSBC
21	HAYWARD	STUART	22,998.59			07/02/1991	MONTR
22	DELTA	ENERGY	22,720			06/29/1988	CANADIAN
23	SOFINSKI	HALINA	22,342.45	10210-108 AVE N.W. APT 301	Edmonton	02/23/1993	BANK OF
Totals			7040983.73				

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Data That is Interactive and Explorable



Let me intuitively sort, search and filter online – without a download

Socrata
Making Data Social

The White House - Nominations & Appointments
(No description provided)

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	Name	Agency	Position	Formal Nomination Date	Confirmation Vote	Confirmed
41	Kenney, Kriste	DOS	Tha	07/14/2010		
42	Powell, Jo Ellen	DOS		07/14/2010		
43	Candelaria, Conrad Ernest	DOJ-USM		07/14/2010		
44	Clark, James Edward	DOJ-USM		07/14/2010		
45	Green, Mark F.	DOJ-USA	U.S. Attorney - Oklahoma, I	07/14/2010		
46	Hernandez, Marco A	JUDGE (FED)	U.S. District Judge - Orego	07/14/2010		
47	Hogsett, Joseph H.	DOJ-USA	U.S. Attorney - Indiana, So	07/14/2010		
48	Howell, Berni	JUDGE (DC)	U.S. District Judge - Distric	07/14/2010		
49	Jones, Steve C.	JUDGE (FED)	U.S. District Judge - Georgi	07/14/2010		
50	Nourse, Victoria	JUDGE (FED)	U.S. Circuit Court Judge - Seve	07/14/2010		
51	Papill, Joseph Anthony	DOJ-USM	U.S. Marshal - Delaware	07/14/2010	08/05/2010	✓
52	Saldana, Diana	JUDGE (FED)	U.S. District Judge - Texas, Sou	07/14/2010		
53	Simon, Michael H.	JUDGE (FED)	U.S. District Judge - Oregon	07/14/2010		
54	Thompson, James Alfred	DOJ-USM	U.S. Marshal - Utah	07/14/2010	08/05/2010	✓
55	Arvizu, Alexander A.	DOS	Chief of Mission, Republic of Albi	07/12/2010		
56	Bond, Michele T.	DOS	Chief of Mission, Kingdom of Les	07/12/2010	08/05/2010	✓
57	Bridgewater, Pamela E.	DOS	Chief of Mission, Jamaica	07/12/2010	08/05/2010	✓
58	Buckley, Sean "Jack" Patrick	DOED	Commissioner of Education Stati	07/12/2010		
59	Desai Birendra, Nisha	USAID	Assistant Administrator for Asia	07/12/2010		
60	Jones, Paul W.	DOS	Chief of Mission, Malaysia	07/12/2010	08/05/2010	✓
61	Mikulak, Robert	DOS	Rank of Ambassador during his t	07/12/2010		
62	Powers, Phyllis	DOS	Chief of Mission, Republic of Pan	07/12/2010	08/05/2010	✓
63	Rinconada, Rosendo	DOS	Chief of Mission, Republic of Tur	07/12/2010		

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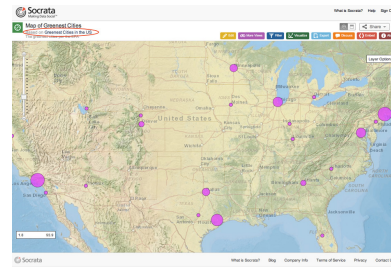
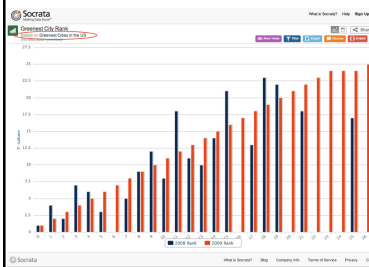
Beautiful Data is in the Eye of the Beholder



Data might be a table to you, but to me it's a chart or a map

Socrata
Openest Cities in the US

2008 Rank	City	# of Buildings	Total Floor Space	Cost Savings	Estimate Potential	2008 Rank
1	1. San Francisco, CA	820	75	\$50.00	\$4,000	1
2	2. Washington, DC	254	55.1	\$60.00	\$5,100	2
3	3. San Francisco, CA	175	51.2	\$50.00	\$4,700	3
4	4. Denver, CO	159	37.5	\$20.00	\$3,200	4
5	5. Chicago, IL	156	89.9	\$20.00	\$4,000	5
6	6. Houston, TX	133	34	\$70.00	\$3,400	6
7	7. Portland, OR	125	17.2	\$20.00	\$400	7
8	8. Dallas/Fort Worth, TX	113	35.1	\$55.00	\$3,000	8
9	9. Seattle, WA	102	89.2	\$50.00	\$4,400	9
10	10. New York, NY	50	33.4	\$60.00	\$7,000	10
11	11. Minneapolis/St. Paul, MN	86	86.3	\$40.00	\$4,400	11
12	12. Portland, OR	82	13.4	\$11.00	\$700	12
13	13. Denver, CO	76	26	\$40.00	\$1,700	13
14	14. Seattle, WA	64	25.1	\$70.00	\$1,000	14
15	15. Denver, CO	51	1.9	\$70.00	\$1,000	15
16	16. San Diego, CA	37	8.1	\$5.00	\$400	16
17	17. San Diego, CA	35	9.7	\$70.00	\$400	17
18	18. Austin, TX	34	9	\$5.00	\$400	18
19	19. Miami, FL	33	12.1	\$70.00	\$1,000	19
20	20. Phoenix, AZ	31	11.1	\$70.00	\$800	20
21	21. Dallas, TX	31	8.5	\$20.00	\$200	21
22	22. Chicago, IL	30	4.7	\$20.00	\$200	22



Hide Those Intimidating Power Features



Let me look something up without overwhelming me with a complex UI

Give me this...

... unless I tell you I want this

A Way to React



Your data struck a nerve with me! Let me express myself

EPA Sampling Data: Response to the BP Oil Spill
Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico

DATE	MATRIX	SAMPLE NAME	LOCATION	STATE NAME	CAS NUMBER	SUBSTANCE	RESULT	
1	September 07, 21	Surface Water	T001-2350-100907-SW-02-2	2350-100907	Louisiana	577-11-7	Bis(2-ethylhexyl) sodium sulfosuc	
2	September 07, 21	Surface Water	T001-1341-100907-SW-04-1	1341-100907	Louisiana		(2-ethylhexyl) sodium sulfosuc	
3	September 07, 21	Surface Water	T001-R659-100907-SW-05-1	R659-100907	Louisiana		(2-ethylhexyl) sodium sulfosuc	
4	September 06, 21	Air	C05-20100905-1200-PUF	C05	Louisiana		rysene	
5	September 06, 21	Air	C05-20100905-1200-PUF	C05	Louisiana		nd(1,2,3-cd)anthracene	
6	September 06, 21	Air	C05-20100905-1200-PUF	C05	Louisiana		nd(1,2,3-cd)anthracene	
7	September 06, 21	Air	C05-20100905-1200-PUF	C05	Louisiana		Naphthalene	
8	September 06, 21	Air	C05-20100905-1200-PUF	C05	Louisiana		Indeno(1,2,3-cd)pyrene	
9	September 06, 21	Air	C05-20100905-1200-PUF	C05	Louisiana		Benzo(a)pyrene	
10	September 06, 21	Air	C05-20100905-1200-PUF	C05	Louisiana		Benzo(b)fluoranthene	
11	September 06, 21	Air	C05-20100905-1200-PUF	C05	Louisiana		Benzo(k)fluoranthene	
12	September 06, 21	Air	V03-20100905-1200-PUF	V03	Louisiana		Naphthalene	
13	September 06, 21	Air	V03-20100905-1200-PUF	V03	Louisiana		Benzo(a)anthracene	
14	September 06, 21	Air	V03-20100905-1200-PUF	V03	Louisiana		Dibenz(a,h)anthracene	
15	September 06, 21	Air	V03-20100905-1200-PUF	V03	Louisiana		Indeno(1,2,3-cd)pyrene	
16	September 06, 21	Air	V03-20100905-1200-PUF	V03	Louisiana		Benzo(a)pyrene	
17	September 06, 21	Air	V03-20100905-1200-PUF	V03	Louisiana		Chrysene	
18	September 06, 21	Air	V03-20100905-1200-PUF	V03	Louisiana		Benzo(b)fluoranthene	
19	September 06, 21	Air	V03-20100905-1200-PUF	V03	Louisiana		Benzo(k)fluoranthene	
20	September 06, 21	Sediment	T001-R654-100906-SW-02-1	R654-100906	Louisiana		Total Organic Carbon	36,700
21	September 06, 21	Surface Water	T001-R654-100906-SW-02-1	R654-100906	Louisiana		Bis(2-ethylhexyl) sodium sulfosuc	
22	September 06, 21	Surface Water	T008-1338-100906-SW-5-1	1338-100906	Louisiana		Bis(2-ethylhexyl) sodium sulfosuc	
23	September 06, 21	Sediment	T001-1338-100906-SW-5-1	1338-100906	Louisiana		Total Organic Carbon	19,500
Totals								54758873

Comments:

Add Comment

New Comment: Is there a way to create a map of this data so I can see where these sensors are in the gulf?

Post **Cancel**

Jeff Talle created a calendar:

Don Abrams created a chart:

Don Abrams created a grouped view:

Alan created a filtered view:

25

A Way to Reuse



Let me embed your data in my website or blog

STRATEGIES
Beyond the Longevity Tables
By MARK HUBERT
Published: October 10, 2009

WHEN financial markets began to plummet two years ago, many retirees faced the very real prospect of outliving their money.

As a solution, many academic researchers have long advocated "fixed life annuities": investment vehicles that pay a set amount each year until the investor — or, sometimes, a spouse — dies.

These annuities are not to be confused with a range of other products with "annuity" in their names, including many known loosely as "variable" annuities. Most of these other products don't directly address retirees' risk of outliving their money. These vehicles also generally exact higher fees. Only a tiny minority of the products sold as annuities in the United States are of the "fixed life" variety, enjoying that academic seal of approval.

127 HOURS NOVEMBER 5

DATA.gov
Employee and Survivor Annuities by Geographic Distribution - FY 2008

Residence	Employee Annuity	Employee Monthly Annuities	Survivor Annuities
1 Alabama	42,585	96,046,000	15,179
2 Alaska	5710	13,152,000	1362
3 Arizona	38,580	83,838,000	12,036
4 Arkansas	18,055	35,093,000	6431
5 California	159,593	351,155,000	57,372
6 Colorado	35,080	79,329,000	10,072
7 Connecticut	10,353	22,125,000	4173
8 Delaware	6220	15,184,000	1782
9 District of Columbia	34,636	93,612,000	8656
10 Florida	123,812	281,300,000	42,132

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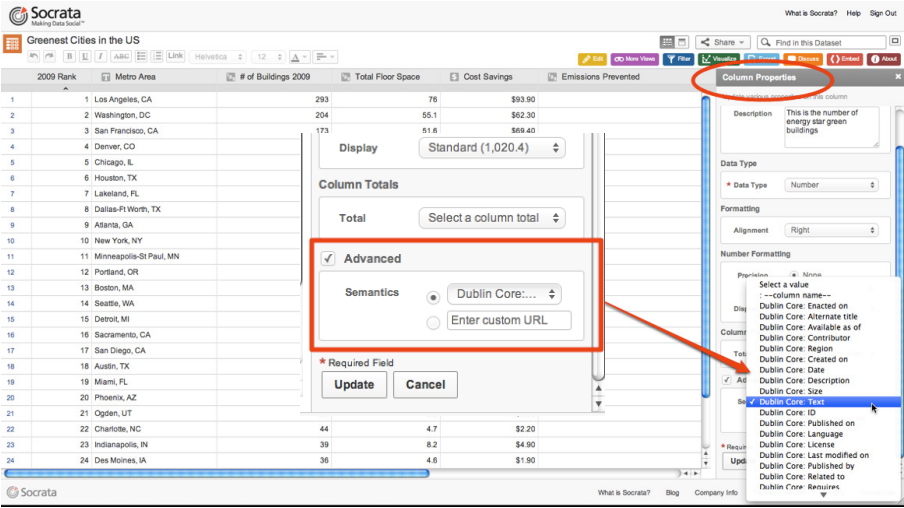
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What Does the “Web of Data” Need?

27

A Way to Easily Publish Data with Semantics

Give publishers a user interface to describe the data



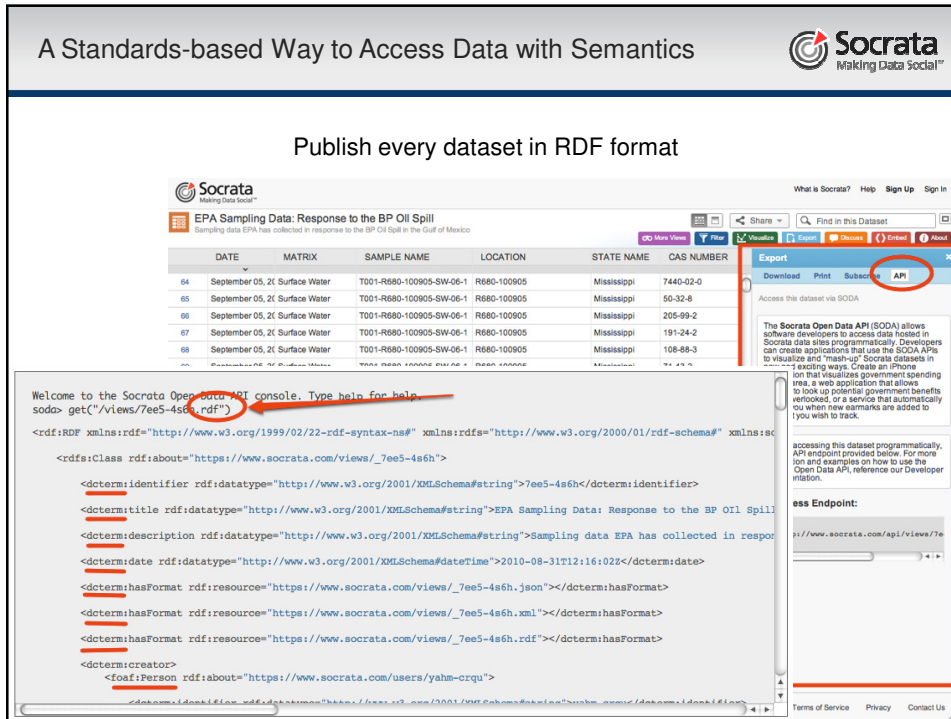
The screenshot shows the Socrata data management interface for the dataset "Greenest Cities in the US". The "Column Properties" dialog is open for the "Emissions Prevented" column. The "Advanced" tab is selected, and the "Semantics" dropdown is set to "Dublin Core: Text". A red box highlights the "Semantics" section, and a red arrow points to the "Dublin Core: Text" option in the dropdown menu.

2009 Rank	Metro Area	# of Buildings 2009	Total Floor Space	Cost Savings	Emissions Prevented
1	Los Angeles, CA	293	76	\$93.90	
2	Washington, DC	204	55.1	\$62.30	
3	San Francisco, CA	173	51.6	\$69.40	
4	Denver, CO				
5	Chicago, IL				
6	Houston, TX				
7	Lakeland, FL				
8	Dallas-Ft Worth, TX				
9	Atlanta, GA				
10	New York, NY				
11	Minneapolis-St Paul, MN				
12	Portland, OR				
13	Boston, MA				
14	Seattle, WA				
15	Detroit, MI				
16	Sacramento, CA				
17	San Diego, CA				
18	Austin, TX				
19	Miami, FL				
20	Phoenix, AZ				
21	Optima, UT				
22	Charlotte, NC	44	4.7	\$2.20	
23	Indianapolis, IN	39	8.2	\$4.90	
24	Des Moines, IA	36	4.6	\$1.90	

A Standards-based Way to Access Data with Semantics

Socrata
Making Data Social™

Publish every dataset in RDF format



What is Socrata? Help Sign Up Sign In

EPA Sampling Data: Response to the BP Oil Spill

Sampling data EPA has collected in response to the BP Oil Spill in the Gulf of Mexico

DATE MATRIX SAMPLE NAME LOCATION STATE NAME CAS NUMBER

64 September 05, 2L Surface Water T001-R680-100905-SW-06-1 R680-100905 Mississippi 7440-02-0

65 September 05, 2L Surface Water T001-R680-100905-SW-06-1 R680-100905 Mississippi 50-32-6

66 September 05, 2L Surface Water T001-R680-100905-SW-06-1 R680-100905 Mississippi 205-99-2

67 September 05, 2L Surface Water T001-R680-100905-SW-06-1 R680-100905 Mississippi 191-24-2

68 September 05, 2L Surface Water T001-R680-100905-SW-06-1 R680-100905 Mississippi 108-88-3

Export

Download Print Subscribe API

Access this dataset via SODA

The Socrata Open Data API (SODA) allows software developers to access data hosted in Socrata data sites programmatically. Developers can create applications that use the SODA APIs to visualize and "mash-up" Socrata datasets in various exciting ways. Create an iPhone app that visualizes government spending data, a web application that allows to look up potential government benefits retrofits, or a service that automatically ou when new edmarks are added to you wish to track.

Accessing this dataset programmatically, API endpoint provided below. For more on and examples on how to use the Open Data API, reference our Developer station.

API Endpoint:

https://www.socrata.com/api/views/7ee5-4s6h

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Wrapping It Up

Socrata
Making Data Social™


- ☐ Communicate through data
- ☐ Know your audience
 - ☐ Scientists & analysts
 - ☐ Programmers
 - ☐ The rest of us
 - ☐ The web itself
- ☐ Optimize the experience for their needs

30

Questions?



Kevin Merritt
Founder & CEO



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(206) 340-8008 x201