

Day 1: Lets Play with Data!

2008 Presidential Election Donations





\$1,644,712,232

6X

Earth's circumference!

10%

U.S. Dept of Energy's Budget!

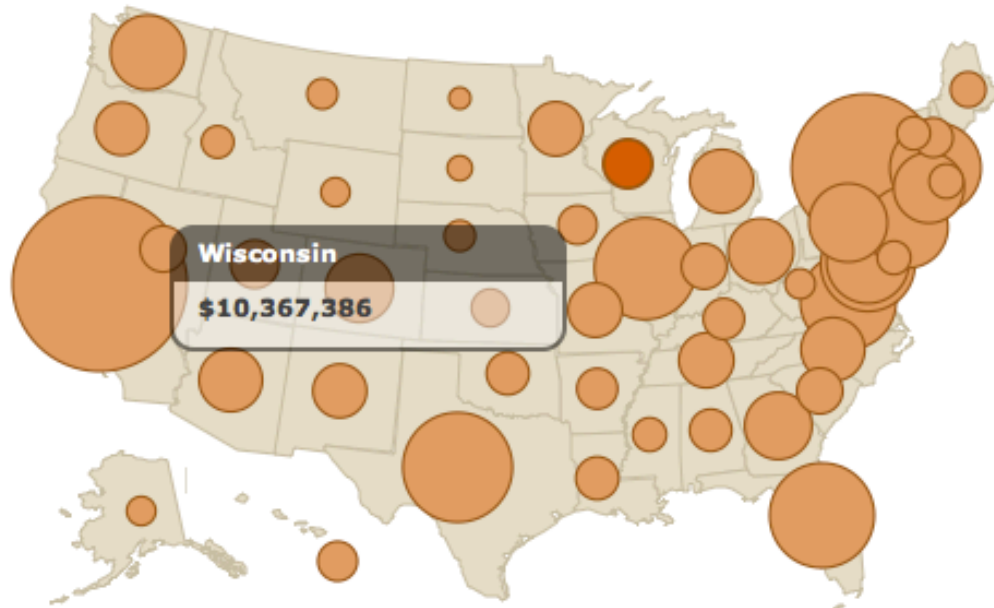
Federal Election Commission

(FEC)

2008 Donations Dataset

C00430470,"P80002801",
"McCain, John S",
"WAHLERS, STUART E. MR.",
"A.P.O.", "AE", "091280013",
"U.S. MILITARY","SOLDIER",
250, 31-JUL-08,
"", "X",
"TRANSFER FROM MCCAIN VICTORY 2008",
"SA18",377957

Contributions to All Candidates



Summary

Expenditures

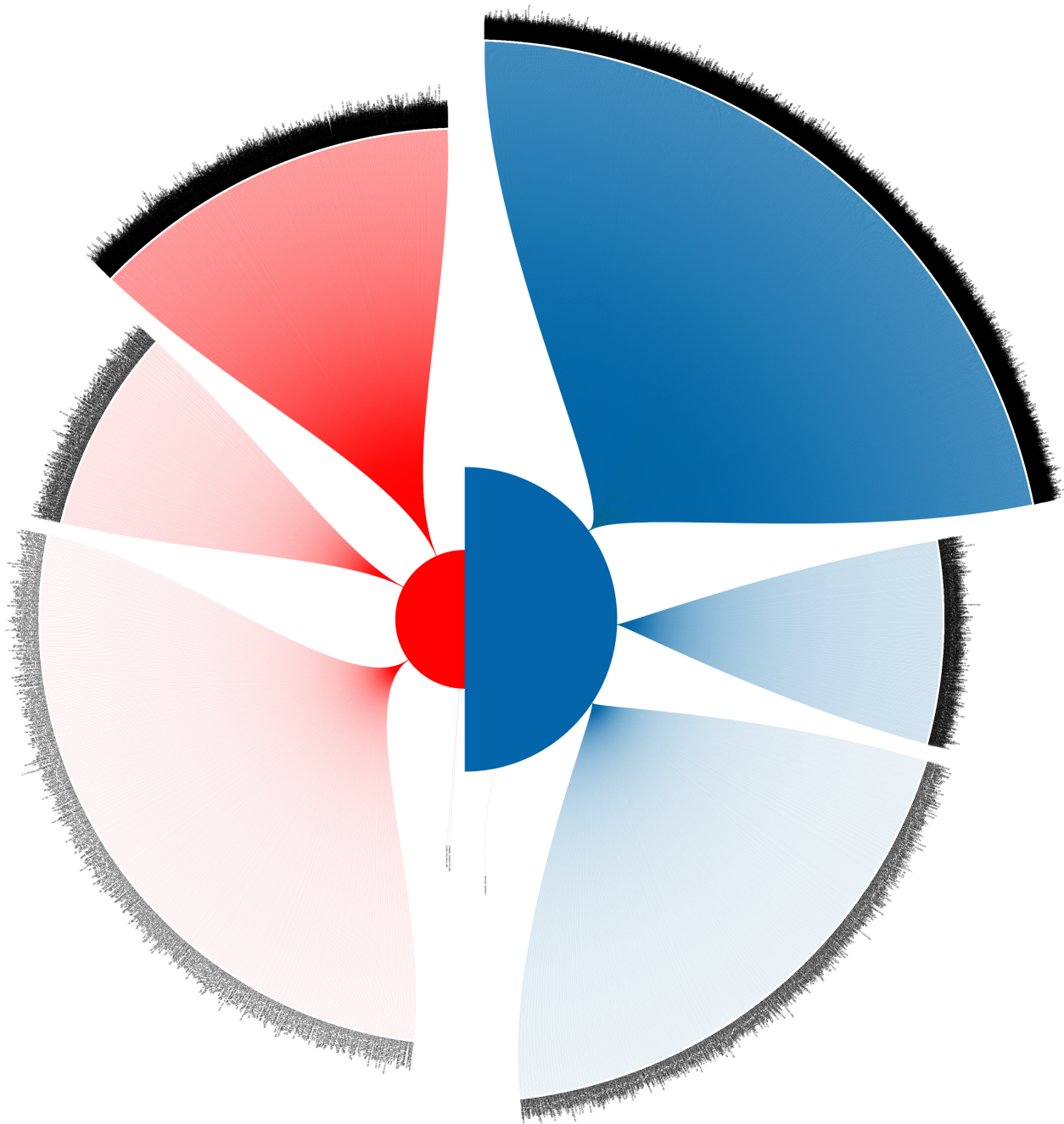
Whats Included Here?

Summary

Contributions	
■ Individual	\$1,334,224,621
■ PAC	\$5,178,919
■ Party	-\$74,043
■ Candidate	\$60,230,846
Federal Funds	\$103,732,646
Transfers-In	\$154,259,577
Disbursements	\$1,603,258,818
Cash On Hand	\$49,237,448

Size of Donations

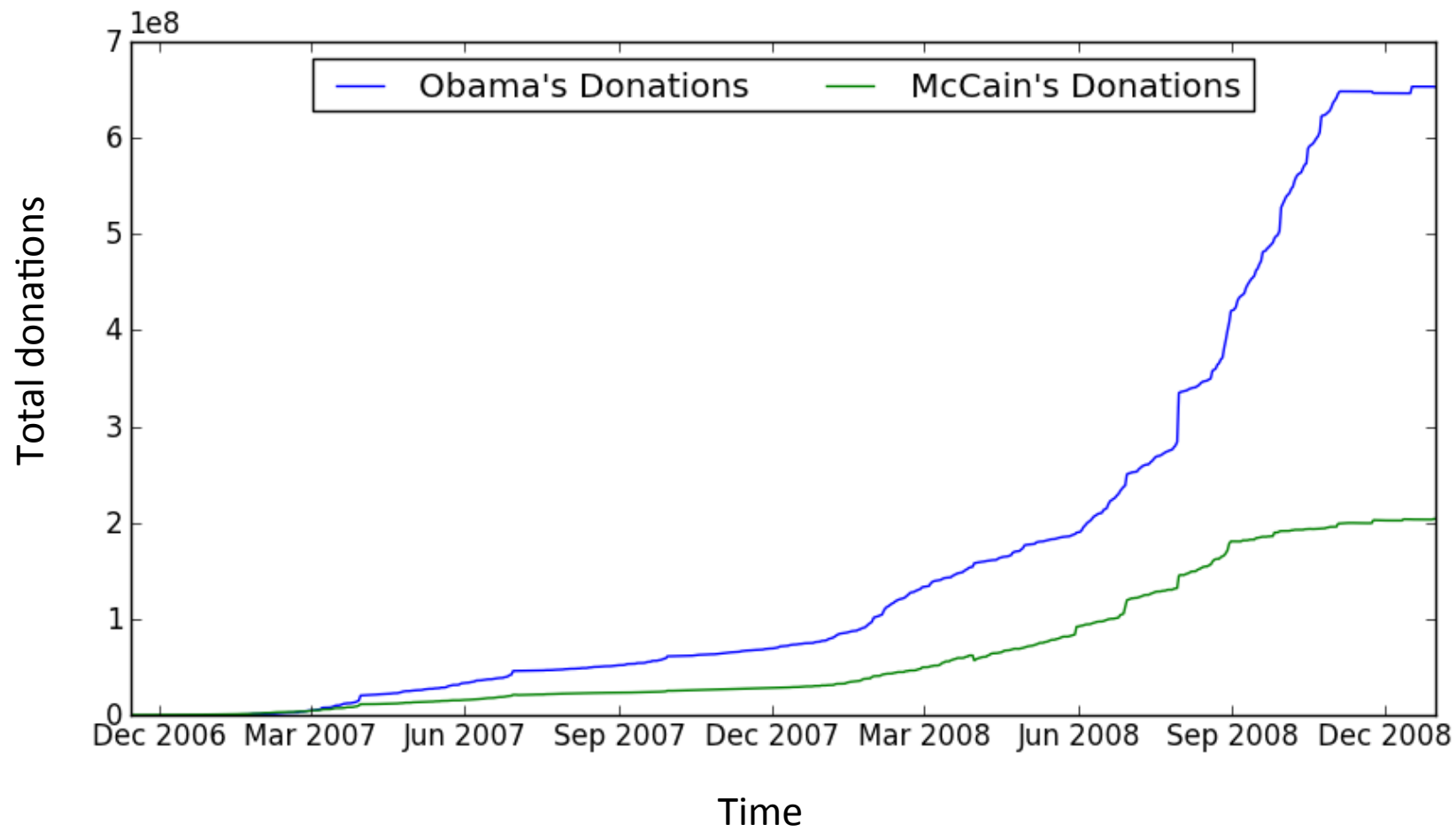
\$200 and Under	\$427,817,410
\$200.01 - \$499	\$140,622,952
\$500 - \$999	\$134,573,216
\$1000 - \$1999	\$206,433,548
\$2000 and Over	\$418,956,583







C00430470,"P80002801","McCain, John S","PRUITT, WILLIAM H. MR. USAF","APO","AE","090120096","DOD","OFFICER",250,07-AUG-08,"","","","SA17A",391336
C00430470,"P80002801","McCain, John S","SCHNAUBELT, CHRISTOPHER DR.",,"APO","AE","096240001","US DEPT OF THE ARMY","ANALYST AND RESEARCHER",500,09-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","SANDERS, STEPHEN MR.",,"ROME","AE","00198","RETIRED","RETIRED",25,07-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","SANDERS, STEPHEN MR.",,"ROME","AE","00198","RETIRED","RETIRED",500,30-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","HILL, FREDERIC SAMUEL MR. III",,"APO","AE","09316","US DEPARTMENT OF STATE","DIPLOMAT",250,22-FEB-08,"","","SA17A",343858
C00430470,"P80002801","McCain, John S","BERGESEN, BIRGER MR.",,"APO","AE","097070069","DEPARTMENT OF THE NAVY","ANALYST",250,05-FEB-08,"","","SA17A",343858
C00430470,"P80002801","McCain, John S","BERGESEN, BIRGER MR.",,"APO","AE","097070069","DEPARTMENT OF THE NAVY","ANALYST",100,21-FEB-08,"","","SA17A",343858
C00430470,"P80002801","McCain, John S","MCNAMARA, RYAN MR.",,"APO","AE","091755806","US ARMY","INTELLIGENCE ANALYST",50,17-APR-08,"","","SA17A",364146
C00430470,"P80002801","McCain, John S","YOUNG, MICHAEL R. MR.",,"APO","AE","091770011","DEPARTMENT OF DEFENSE","TEACHER",57,12-MAR-08,"","","SA17A",346233
C00430470,"P80002801","McCain, John S","GONZALES, AUGUSTINE MR. USA",,"APO","AE","090341139","US ARMY","INFANTRY OFFICER",100,05-MAR-08,"","","SA17A",346233
C00430470,"P80002801","McCain, John S","GONZALES, AUGUSTINE MR. USA",,"APO","AE","090341139","US ARMY","INFANTRY OFFICER",100,26-MAR-08,"","","SA17A",346233
C00430470,"P80002801","McCain, John S","HANSON, DAVID LTC",,"APO","AE","090999101","UNITED STATES AIR FORCE","OFFICER/LT COL",500,01-JUN-08,"","","SA17A",364350
C00430470,"P80002801","McCain, John S","BERGESEN, BIRGER J. MR. II",,"APO","AE","097070069","DEPT. OF THE NAVY","ANALYST",250,05-JUN-08,"","","SA17A",364350
C00430470,"P80002801","McCain, John S","PIERCE, MIKE MR.",,"APO","AE","09139","US ARMY","SIGNAL OFFICER",50,05-JUN-08,"","","SA17A",364350
C00430470,"P80002801","McCain, John S","JONES, CARA MS.",,"APO","AE","09469","INFORMATION REQUESTED PER BEST EFFORTS","INFORMATION REQUESTED PER BEST EFFORTS",2000,27-JUN-08,"","","SA17A",364350
C00430470,"P80002801","McCain, John S","MCCARTY, CHARLES",,"DOUGLAS","AE","092117","RETIRED","RETIRED",50,05-JUN-08,"","","SA17A",364350
C00430470,"P80002801","McCain, John S","MCCARTY, CHARLES",,"DOUGLAS","AE","092117","RETIRED","RETIRED",50,19-JUN-08,"","","SA17A",364350
C00430470,"P80002801","McCain, John S","LANCASTER, JOSEPH MR.",,"APO","AE","090633157","US ARMY","WARRANT OFFICER",250,28-MAR-08,"","","SA17A",346233
C00430470,"P80002801","McCain, John S","PANKEY, LANEY MR.",,"APO","AE","09356","L-3 COMMUNICATIONS MPRI DIVISION","SYSTEMS DEVELOPER",200,05-MAR-08,"","","SA17A",346233
C00430470,"P80002801","McCain, John S","FORD, COREY MR.",,"APO","AE","09316","U.S. DEPARTMENT OF STATE","SPECIAL AGENT",100,01-JUN-08,"","","SA17A",364350
C00430470,"P80002801","McCain, John S","NELSON, KIRBY MR.",,"APO","AE","097239998","US DEPARTMENT OF STATE","FOREIGN SERVICE OFFICER",250,24-APR-08,"","","SA17A",364146
C00430470,"P80002801","McCain, John S","BROOME, DAN C. MR. JR.",,"FPO","AE","098342800","LOCKHEED MARTIN","FIELD SERVICE ENGINEER",2300,14-MAR-08,"","","SA17A",346233
C00430470,"P80002801","McCain, John S","MOTT, ROBERT S. MR.",,"APO","AE","09139","US GOVERNMENT","MILITARY OFFICER",100,05-JUN-08,"","","SA17A",364350
C00430470,"P80002801","McCain, John S","HIGHFILL, MARK MR.",,"LSA ADDER/ALI AB A","AE","09331","KBR","MECHANIC",500,24-APR-08,"","","SA17A",364146
C00430470,"P80002801","McCain, John S","BRANIELLA, JOSE MR.",,"APO","AE","09139","US NAVY","OFFICER",50,08-MAY-08,"","","SA17A",364148
C00430470,"P80002801","McCain, John S","HILL, FREDERIC SAMUEL MR. III",,"APO","AE","09316","US DEPARTMENT OF STATE","DIPLOMAT",200,07-MAY-08,"","","SA17A",364148
C00430470,"P80002801","McCain, John S","BRANIELLA, JOSE MR. USN",,"APO AE 09365","AE","33014","US NAVY","OFFICER",50,05-JUL-08,"","","SA17A",377957
C00430470,"P80002801","McCain, John S","SCHNAUBELT, CHRISTOPHER DR.",,"APO","AE","096240001","US DEPT OF THE ARMY","ANALYST AND RESEARCHER",500,21-MAR-08,"","","SA17A",340000
C00430470,"P80002801","McCain, John S","ROBERTS, GUY B. MR.",,"APO","AE","09724","NATO","DIPLOMAT",200,09-JUL-08,"","","SA17A",377957
C00430470,"P80002801","McCain, John S","HUDSON, PETER",,"APO","AE","09390","KBR","CONTRACTOR",500,10-JUL-08,"","","SA17A",377957
C00430470,"P80002801","McCain, John S","MCNAMARA, RYAN MR.",,"APO","AE","091755806","CACI","INTELLIGENCE ANALYST",50,24-JUL-08,"","","SA17A",377957
C00430470,"P80002801","McCain, John S","HURLEY, MICHAEL MR. USN",,"FPO","AE","096229998","UNITED STATES NAVY","COMMAND MASTER CHIEF",25,07-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","HURLEY, MICHAEL MR. USN",,"FPO","AE","096229998","UNITED STATES NAVY","COMMAND MASTER CHIEF",25,30-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","GARFIELD, RANDAL",,"APO","AE","097031401","DEPARTMENT OF THE ARMY","PLANS AND EXERCISES",100,01-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","GARFIELD, RANDAL",,"APO","AE","097031401","DEPARTMENT OF THE ARMY","PLANS AND EXERCISES",25,07-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","GARFIELD, RANDAL",,"APO","AE","097031401","DEPARTMENT OF THE ARMY","PLANS AND EXERCISES",100,30-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","LUKEMAN, MICHAEL F. MR.",,"APO","AE","092642865","U.S. ARMY","SOLDIER",100,27-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","POLIDORO, WILLIAM JOHN MR.",,"APO","AE","091754861","U.S. ARMY","SOLDIER",25,07-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","POLIDORO, WILLIAM JOHN MR.",,"APO","AE","091754861","U.S. ARMY","SOLDIER",25,30-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","BRANIELLA, JOSE MR. USN",,"APO AE 09365","AE","33014","US NAVY","OFFICER",50,07-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","BRANIELLA, JOSE MR. USN",,"APO AE 09365","AE","33014","US NAVY","OFFICER",50,30-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","BOISVENUE, MICHAEL J. MR.",,"APO","AE","09316","U.S. GOVERNMENT","DEPUTY INSPECTOR GENERAL",1000,25-OCT-07,"","","SA17A",390939
C00430470,"P80002801","McCain, John S","YOUNG, MICHAEL R. MR.",,"APO","AE","091770011","DODEA","TEACHER",62,01-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","YOUNG, MICHAEL R. MR.",,"APO","AE","091770011","DODEA","TEACHER",58,31-AUG-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","BELTRAN, FRANK MR.",,"APO","AE","090093700","AAFES","SUPERVISOR",100,24-APR-07,"","","SA17A",324747
C00430470,"P80002801","McCain, John S","BELTRAN, FRANK MR.",,"APO","AE","090093700","AAFES","SUPERVISOR",125,01-MAY-07,"","","SA17A",324747
C00430470,"P80002801","McCain, John S","MELTON, JOHN MR.",,"APO","AE","091801626","U.S. ARMY","MILITARY OFFICER-ACTIVE DUTY",500,12-APR-07,"","","SA17A",324747
C00430470,"P80002801","McCain, John S","BURKHALTER, EDWARD A. MR. III",,"APO","AE","098170055","DEPARTMENT OF STATE","FOREIGN SERVICE OFFICER",290,17-JUL-08,"","","SA17A",391336
C00430470,"P80002801","McCain, John S","BELTRAN, FRANK MR.",,"APO","AE","090093700","AAFES","SUPERVISOR",200,09-AUG-07,"","","SA17A",315387



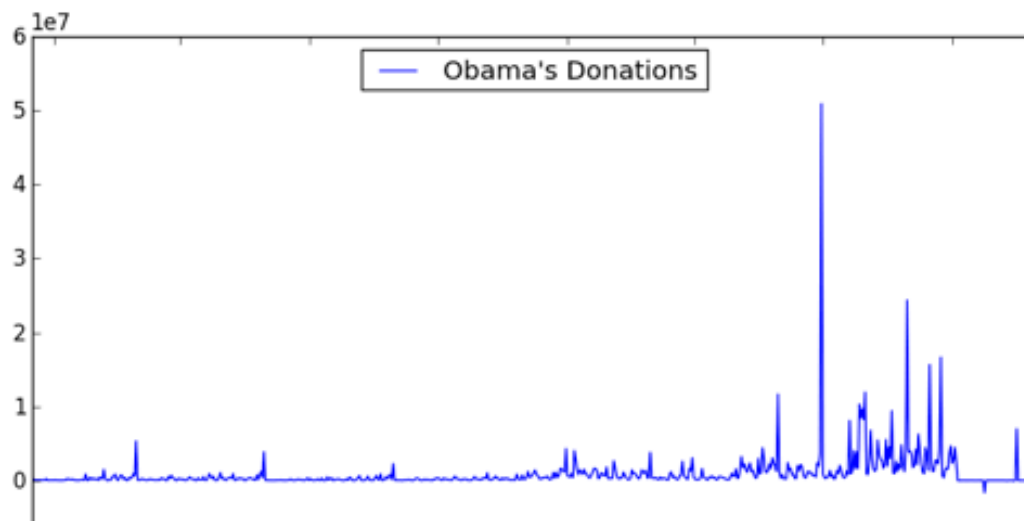
Negative Donations

We provide `defaultdict` a function to call and return if the key doesn't exist. This is nice because we can assume a default value. It is otherwise used as a normal python dictionary:

```
>>> d = collections.defaultdict(lambda:0)
>>> d['foo']
0
>>> d['bar'] += 1
```

- We parse the dates using the `datetime` module's `strptime` function. The string `%d-%b-%y` is called a [date format string](#).
- In the loop that reads the data, we record the total donation amount for each date.
- Finally, we need to sort the data in `obamadonations` by the date (the key). `sorted(l, key=f)` returns a sorted copy of `l` and calls `f` to extract the key to use for comparison.
- `zip(*pairs)` then unzips the list of pairs into two lists.

You should see something like this:



dataiap.github.com/dataiap/day1/

Feedback Please!