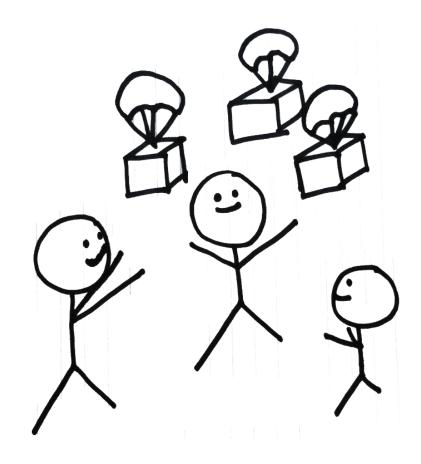
How the public data platform can disrupt the research community



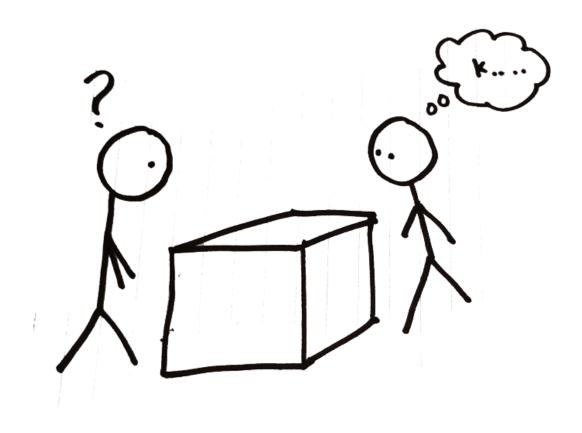
"This is why I can't be angry"



Increasing access to data









A typical workflow now

1. Make the dataset



1. Make the dataset

2. Go to the organization or university's website

HMDA LAR & TS Raw Data Windows Application

This software includes the loan-level data, documentation, and a tool to query and export the data. This software is compatible with Windows only.

Download the software:

▶2012 (621 MB)

▶2011 (490 MB)

▶2010 (535 MB)

▶2009 (625 MB)

▶2008 (595 MB)

▶2007 (860 MB)



"*I* don't even use the FFIEC website to get HMDA data because it's not formatted correctly."



- 1. Make the dataset
- 2. Go to the organization or university's website
- 3. Hope your boss gives it to you







- 1. Make the dataset
- 2. Go to the organization or university's website
- 3. Hope your boss gives it to you
- 4. Hope the researcher lets you have it



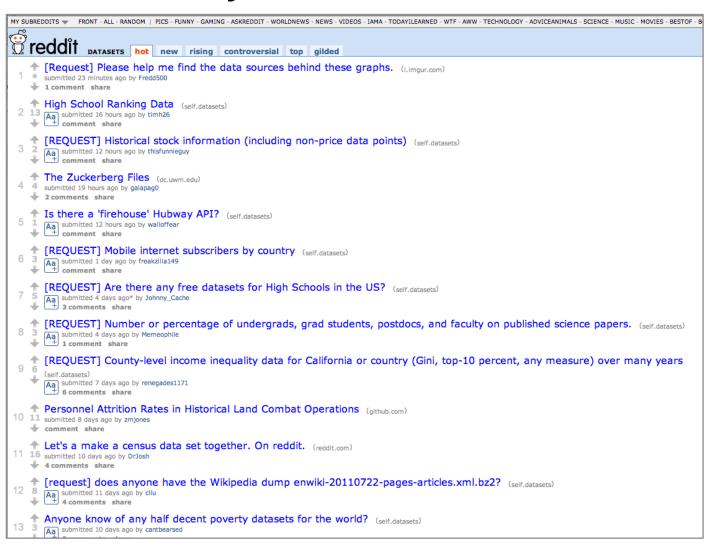
"I contact the original principal investigator (or their secretary), explain what I want it for...and if they think my reason for wanting it is good enough, they email it to me, probably as a .zip file."



- 1. Make the dataset
- 2. Go to the organization or university's website
- 3. Hope your boss gives it to you
- 4. Hope the researcher lets you have it
- 5. Ask around for it on listservs, mailing lists



6. Reddit (seriously)





Is the data complete?

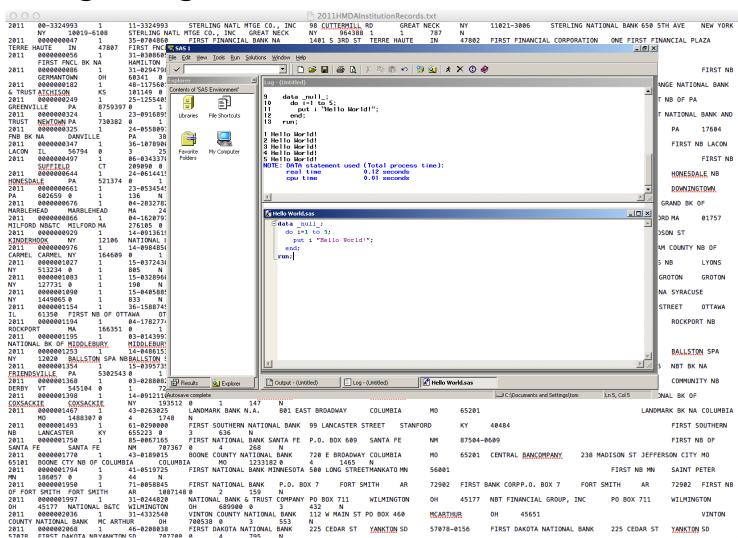
Is the data correct?

Is the data in a format I can use?

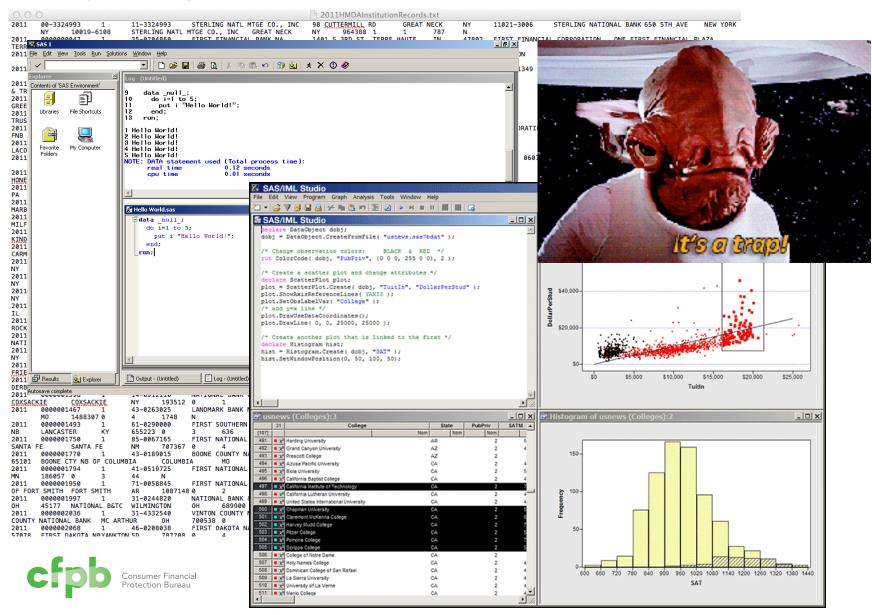


000				2011UMDAInstitution	Docords tut					
2011	00-3324993 1	11-3324993	STERLING NATL MTGE CO., INC	98 CUTTERMILL RD	GREAT NECK	NY	11021-3006	TERLING NATIONA	AL DANK CEA ETH	AVE NEW YORK
2011	NY 10019-6108		MTGE CO., INC GREAT NECK	NY 964388 1	1 787		11021-3000	STEREING NATION	AL DANK OJE JIII	AVE NEW TORK
2011	0000000047 1	35-0704860	FIRST FINANCIAL BANK NA	1401 S 3RD ST TERRE		47802	FIRST FINANCIAL	CORPORATION	ONE FIRST FINAM	NCIAL PLAZA
TERRE F	HAUTE IN 47807 0000000056 1	FIRST FNCL BK 31-0308605	NA TERRE HAUTE IN FIRST FINANCIAL BANK, N.A.	2363730 0 3 300 HIGH STREET AT	2950 N TN: MICKEY MU	ULVANEY	HAMILTON C)H 45011		
	FIRST FNCL BK NA	HAMILTON	OH 6237352 Ø 3	2470 N	•••					
2011	0000000086 1 GERMANTOWN OH	31-0294798 60341 0	FIRST NATIONAL BANK OF GERMAN	T17 NORTH MAIN STREET	GERMANTOWN	ОН	45327-1349			FIRST NB
2011	0000000182 1	48-1175601	EXCHANGE NATIONAL BANK _TRUST	600 COMMERCIAL ATCHIS	ON KS	66002			EXCHANG	E NATIONAL BANK
	ATCHISON KS	101149 0	4 80 N							
2011 GREENVI	0000000249 1 LLE PA 87593	25-1255405 97 0 1	FIRST NATIONAL BANK OF PA 9814 N	166 MAIN ST GREENV	ILLE PA	16125			FIRST N	B OF PA
2011	0000000324 1	23-0916895	FIRST NATIONAL BANK AND TRUST	40 SOUTH STATE ST	NEWTOWN PA	18940			FIRST N	ATIONAL BANK AND
TRUST	NEWTOWN PA 73038		194 N	TD440/T115	47004 5111					
2011 FNB BK	0000000325 1 NA DANVILLE	24-0558097 PA 388866	FNB BANK, N.A. 354 MILL STREE 0 1 518 N	TDANVILLE PA	1/821 FUL	TON FINANCI	AL CORPORATION C	INE PENN SQUARE	LANCASTER	PA 17604
2011	0000000347 1	36-1078900	THE 1ST NATIONAL BANK OF LACO	N111 S BROAD ST PO BOX	308 LAC	ON IL	61540			FIRST NB LACON
LACON 2011	IL 56794 0 0000000497 1	3 25 06-0343370	N THE FIRST NATIONAL BANK OF SU	E 30 DOTOCE CIDEET D O	BOY OF CHE	ETELD	CT 06078			FIRST NB
2011	SUFFIELD CT	209090 0	1 252 N	r 30 BRIDGE STREET, P.O.	, BUX 90 5UF	LICLD	C1 90976			FIRST ND
2011	0000000644 1	24-0614415		P 0 BOX 350 HONESD	ALE PA	18431-0	0350			HONESDALE NB
HONESDA 2011	NLE PA 52137 0000000661 1	4 0 1 23-0534545	839 N DNB FIRST, NA 4 BRANDYWINE A	VE. DOWNINGTOWN	PA 193	35			DNB FIRST NA	DOWNINGTOWN
PA	602659 0 1	136 N	Sits (11.51) iii. 4 Situits iii.12.	•						
2011 MARBLE	0000000676 1 HEAD MARBLEHEAD	04-2832782 MA 248617		ASANT STREET MARBLE	HEAD MA	01945			NATL GR	AND BK OF
2011	0000000866 1	04-1620797	THE MILFORD NATIONAL BANK	300 EAST MAIN ST	MILFORD MA	01757	MNB BANCORP. 3	00 EAST MAIN ST	T MILFORD	MA 01757
	NB&TC MILFORD MA	276105 0	1 96 N				•••••			
2011 KINDER	0000000929 1 HOOK NY 12106	14-0913619 NATIONAL UNION	NATIONAL UNION BANK OF KINDER N BK KINDERHOOK NY	HONE HUDSON STREET 248057 0 1	KINDERHOOK 81 N	NY	12106 NATIONAL	UNION BANK OF	KINDERH 1 HUDSO	N ST
2011	0000000976 1	14-0984850	PUTNAM COUNTY NATIONAL BANK	P.O. BOX 10 CARMEL		12-0010			PUTNAM	COUNTY NB OF
	CARMEL NY 16460		14 N	DE MILLIAM CIDEET	L MONG NIM	14400			LYONG	D LYONG
2011 NY	0000001027 1 513234 0 1	15-0372430 805 N	THE LYONS NATIONAL BANK	35 WILLIAM STREET	LYONS NY	14489			LYONS N	B LYONS
2011	0000001083 1	15-0328960	FIRST NATIONAL BANK OF GROTON	161 MAIN STREETGROTON	NY 130	73		1	FIRST NB OF GR	OTON GROTON
NY 2011	127731 0 1 0000001090 1	190 N 15-0405885	ALLIANCE BANK NA 120 MAG	DISON ST SYRACUSE	NY 132	92			ALLIANCE BK NA	SYDACIISE
NY	1449065 0 1	833 N	ALLIANCE BANK NA 120 MAL	JISON ST STRACUSE	N1 132	02		· · · · · · · · · · · · · · · · · · ·	ALLIANCE DK NA	STRACUSE
2011	0000001154 1	36-1588745	FIRST NATIONAL BANK OF OTTAWA		OTTAWA IL	61350	FIRST OTTAWA BAN	ICSHARES	701 LASALLE STI	REET OTTAWA
IL 2011	61350 FIRST NB OF (0000001194 1	OTTAWA OTTAWA 04-1782774	IL 285698 0 3 ROCKPORT NATIONAL BANK PO BOX	210 N 90 16 MAIN STREET	ROCKPORT	MA	01966			ROCKPORT NB
ROCKPOR			92 N							nochi oni no
2011	0000001195 1	03-0143997 MIDDLEBURY	NATIONAL BANK OF MIDDLEBURY VT 273219 0 1	30 MAIN STREET, P 0 B0)X 189 MID	DLEBURY	VT 05753-01	89		
2011	AL BK OF MIDDLEBURY 0000001253 1	14-0486153	BALLSTON SPA NATIONAL BANK	87 FRONT ST. BALLST	ON SPA NY	12020	BALLSTON SPA NAT	IONAL BANK	87 FRONT ST.	BALLSTON SPA
NY	12020 BALLSTON SPA		NY 385348 0 1	317 N						
2011 FRIENDS	0000001354 1 SVILLE PA 53025	15-0395735 43 0 1	NBT BANK NA 52 SOUTH BROAD 4046 N	STREET NORWICH NY	13815 NBT	BANCORP IN	C52 SOUTH BROAD S	TREET NORWICH	NY 13815	NBT BK NA
2011	0000001368 1	03-0288082	COMMUNITY NATIONAL BANK	4811 US ROUTE 5, PO BO	0X 259 DER	BY VT	05829			COMMUNITY NB
DERBY 2011	VT 545104 0 0000001398 1	1 723 14-0912110	N NATIONAL BANK OF COXSACKIE	3-7 REED STREETCOXSAC	KIE NY	12051			NATIONA	I BK OE
COXSACE		NY 193512		3-7 REED STREET COASAC	NIE INT	12031			INATIONA	L BK UF
2011	0000001467 1	43-0263025	LANDMARK BANK N.A. 801 EAS	ST BROADWAY COLUMB	IA MO	65201			LANDMAR	K BK NA COLUMBIA
2011	MO 1488307 0 0000001493 1	4 1748 61-0290000	N FIRST SOUTHERN NATIONAL BANK	99 LANCASTER STREET	STANFORD	KY	40484			FIRST SOUTHERN
NB	LANCASTER KY	655223 0	3 636 N		START ONE					
2011 SANTA F	0000001750 1 E SANTA FE	85-0067165 NM 707367	FIRST NATIONAL BANK SANTA FE 0 4 268 N	P.O. BOX 609 SANTA	FE NM	87504-0	0609			FIRST NB OF
2011	0000001770 1	NM /0/36/ 43-0189015	BOONE COUNTY NATIONAL BANK	720 E BROADWAY COLUMB	IA MO	65201	CENTRAL BANCOMPA	NY 238 MADI	SON ST JEFFERS	ON CITY MO
65101	BOONE CTY NB OF COLU	MBIA COLUMB	IA MO 1233182 0	4 1465 N						
2011 MN	0000001794 1 186057 0 3	41-0519725 44 N	FIRST NATIONAL BANK MINNESOTA	500 LONG STREETMANKAT	0 MN 560	01			FIRST NB MN	SAINT PETER
2011	0000001950 1	71-0058845	FIRST NATIONAL BANK P.O. BO	X 7 FORT SMITH	AR 729	02 FIRST F	BANK CORPP.O. BOX	7 FORT SMI	TH AR	72902 FIRST NB
	SMITH FORT SMITH	AR 108714		DO DOV 711 - LITERATURE	CTON OU	45177	NET ETHANCTAL CO	OUD THE	DO BOY 711	WITH MINICION
2011 OH	0000001997 1 45177 NATIONAL B&TO	31-0244820 WILMINGTON	NATIONAL BANK & TRUST COMPANY OH 689900 0 3	PO BOX 711 WILMIN	GTON OH	45177	NBT FINANCIAL GR	OUP, INC	PO BOX 711	WILMINGTON
2011	0000002036 1	31-4332540	VINTON COUNTY NATIONAL BANK	112 W MAIN ST PO BOX 4	460 MCA	RTHUR	OH 45651			VINTON
COUNTY	NATIONAL BANK MC AR 0000002068 1	THUR 0H 46-0208038	700538 0 3 553	N						
2011			FIRST DAKOTA NATIONAL BANK	225 CEDAR ST YANKTO	VSD 570	78-0156	FIRST DAKOTA NAT	TONAL BANK '	225 CEDAR ST	YANKTON SD



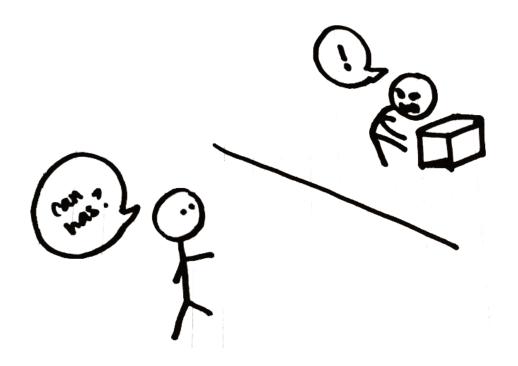






This process is a pain in the ass.

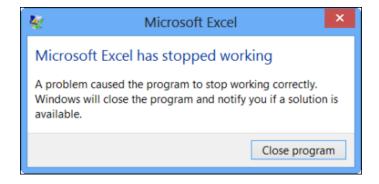
People are territorial





Software is expensive and superfluous

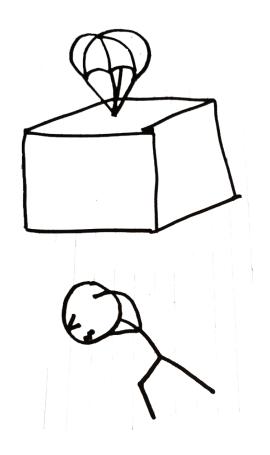




```
SAS/IML Studio
  eclare DataObject dobj;
 dobj = DataObject.CreateFromFile( "usnews.sas7bdat" );
 /* Change observation colors: BLACK & RED */
 run ColorCode ( dobj, "PubPriv", (0 0 0, 255 0 0), 2 );
 /* Create a scatter plot and change attributes */
 declare ScatterPlot plot;
 plot = ScatterPlot.Create( dobj, "TuitIn", "DollarPerStud" );
 plot.ShowAxisReferenceLines( YAXIS );
plot.SetObsLabelVar( "College" );
 /* add y=x line */
 plot.DrawUseDataCoordinates();
 plot.DrawLine( 0, 0, 25000, 25000 );
 /* Create another plot that is linked to the first */
 declare Histogram hist;
 hist = Histogram.Create( dobj, "SAT" );
hist.SetWindowPosition(0, 50, 100, 50);
```



Data is getting bigger







A better workflow

MARIO 021650

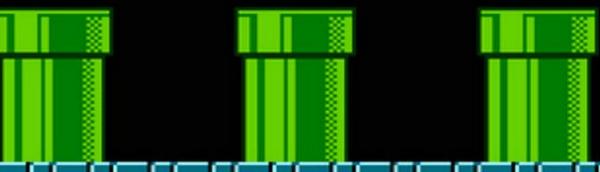
1×13

WORLD

물설투

WELCOME TO WARP ZONE!

4 3 2



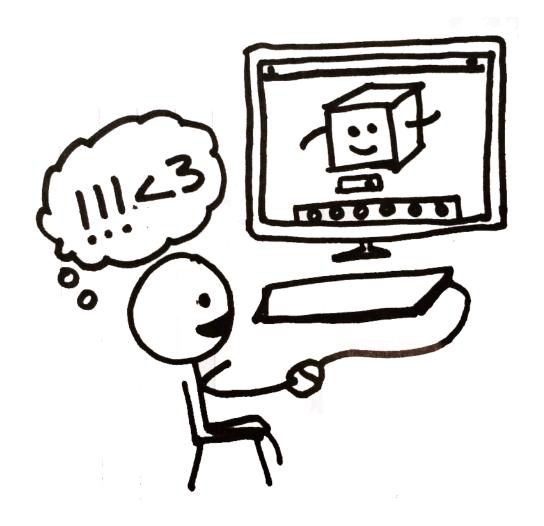
SUPER MARIO BROS - NINTENDO - 19

We can eliminate the majority of the cruft some researchers go through *just* to start doing their work.



- 1. Make the dataset
- 2. Go to the organization or university's website
- 3. Hope your boss gives it to you
- 4. Hope the researcher lets you have it
- 5. Ask around for it on listservs, mailing lists
- 6. Reddit







Filter the data

Filter the data to just what you're interested in, and then download the results or aggregate them into a summary table.



Most people search for **loan originations** for **first-lien**, **owner-occupied**, **1-4 family** and **manufactured housing** in **2012**. To save you time, we have pre-filtered the data to these results.

Download the data now or change the filters below. [Clear all fields]

Select year(s) of data:



- **CATION** State, metro area, county, and census tract of the property
- **OPPLICANT** Demographic information for applicants and co-applicants
- LENDER Lender ID and federal agency
- **PROPERTY** Property type and occupancy
- **COAN DESCRIPTION** Loan purpose, type, amount, and more
- **LOAN ACTION** Status of the application, secondary purchaser, and more

Clear all fields | Reset to default

Want more insight? Create a summary table >





Not quite what you're looking for? You can also go back and filter your results differently. **Modify your filters** >

Save & share your work

Save your filters, or share them with a link:

https://github.cfpb.gov/pages/data-platform/p



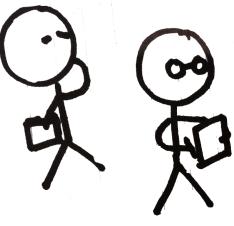






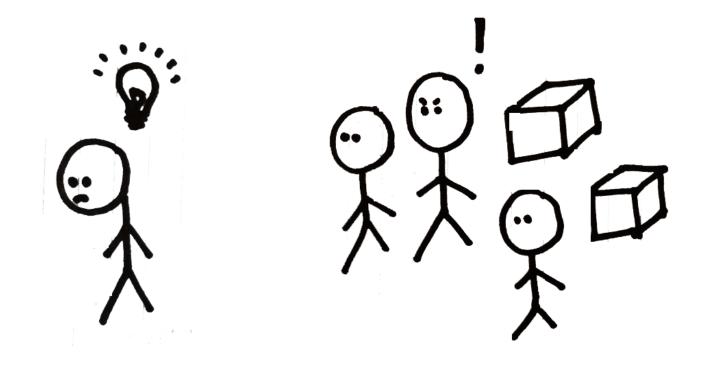


Money



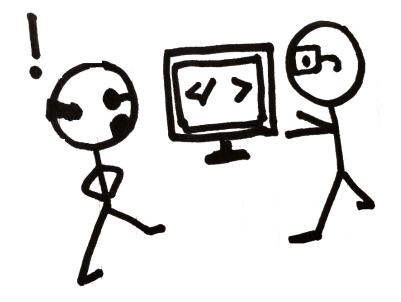
People





Empathy and user experience





Good design solves problems.

