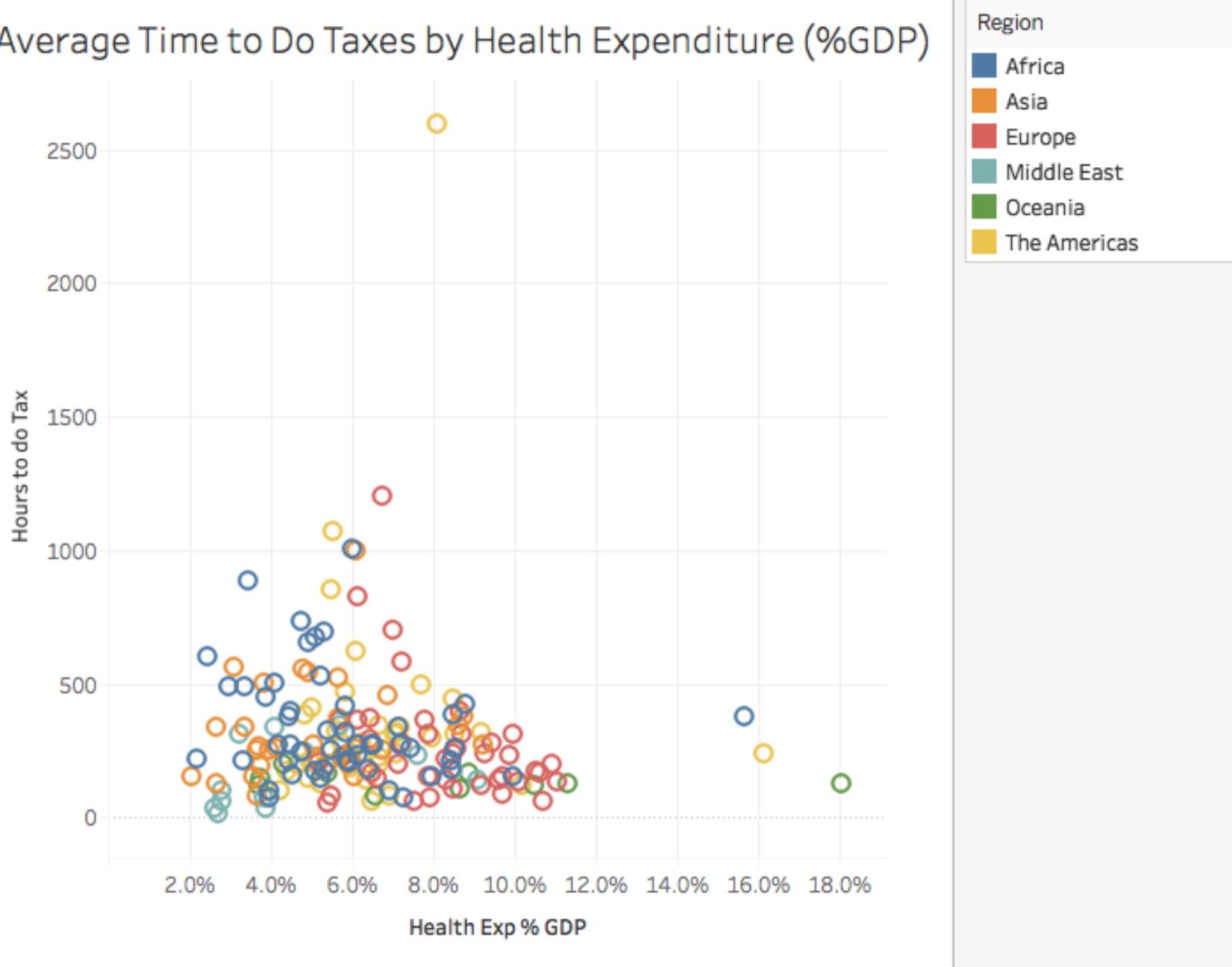


Multivariate Plot Types

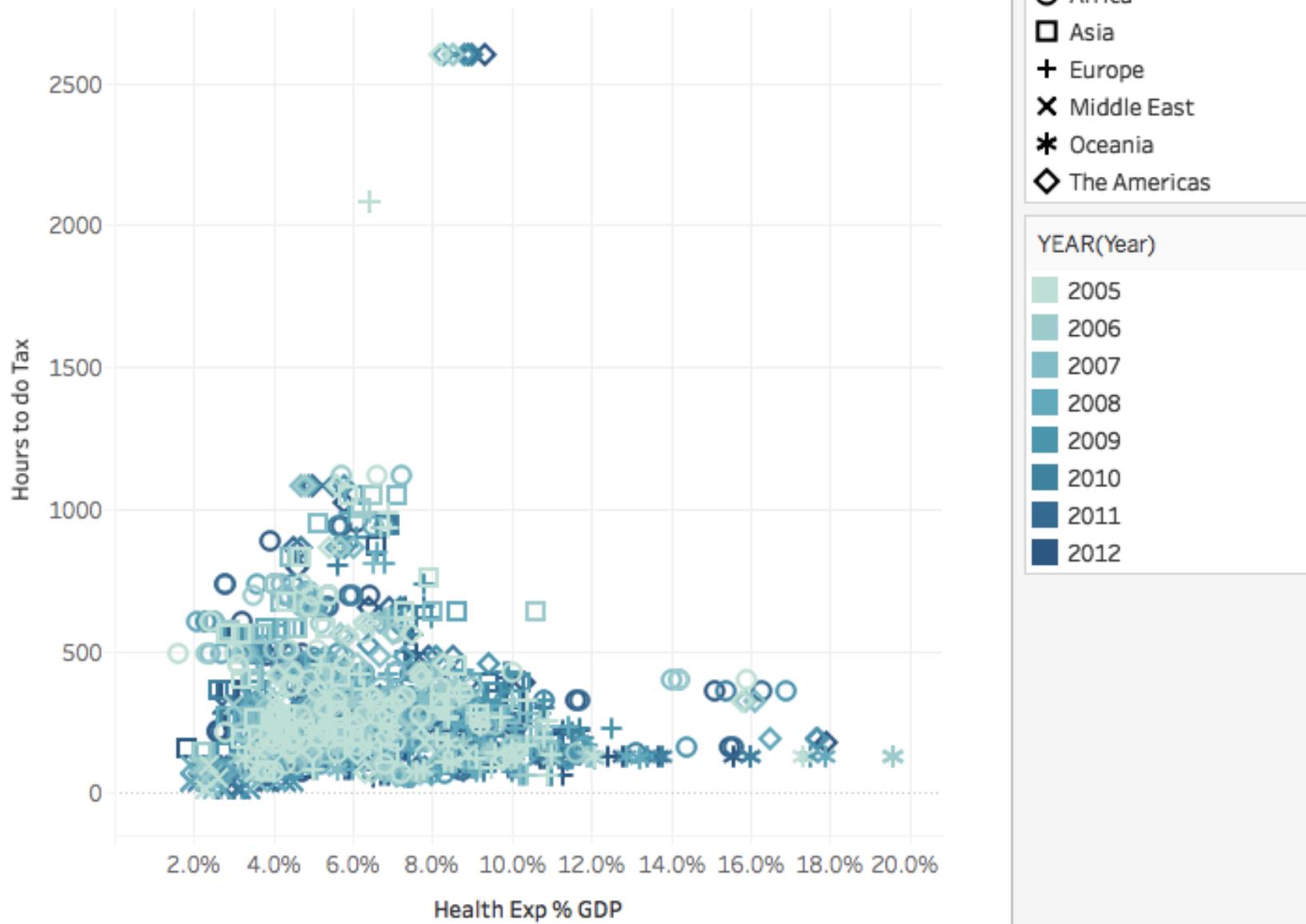
The Problem

Represent data with more than two dimensions in a two-dimensional medium.

Average Time to Do Taxes by Health Expenditure (%GDP)



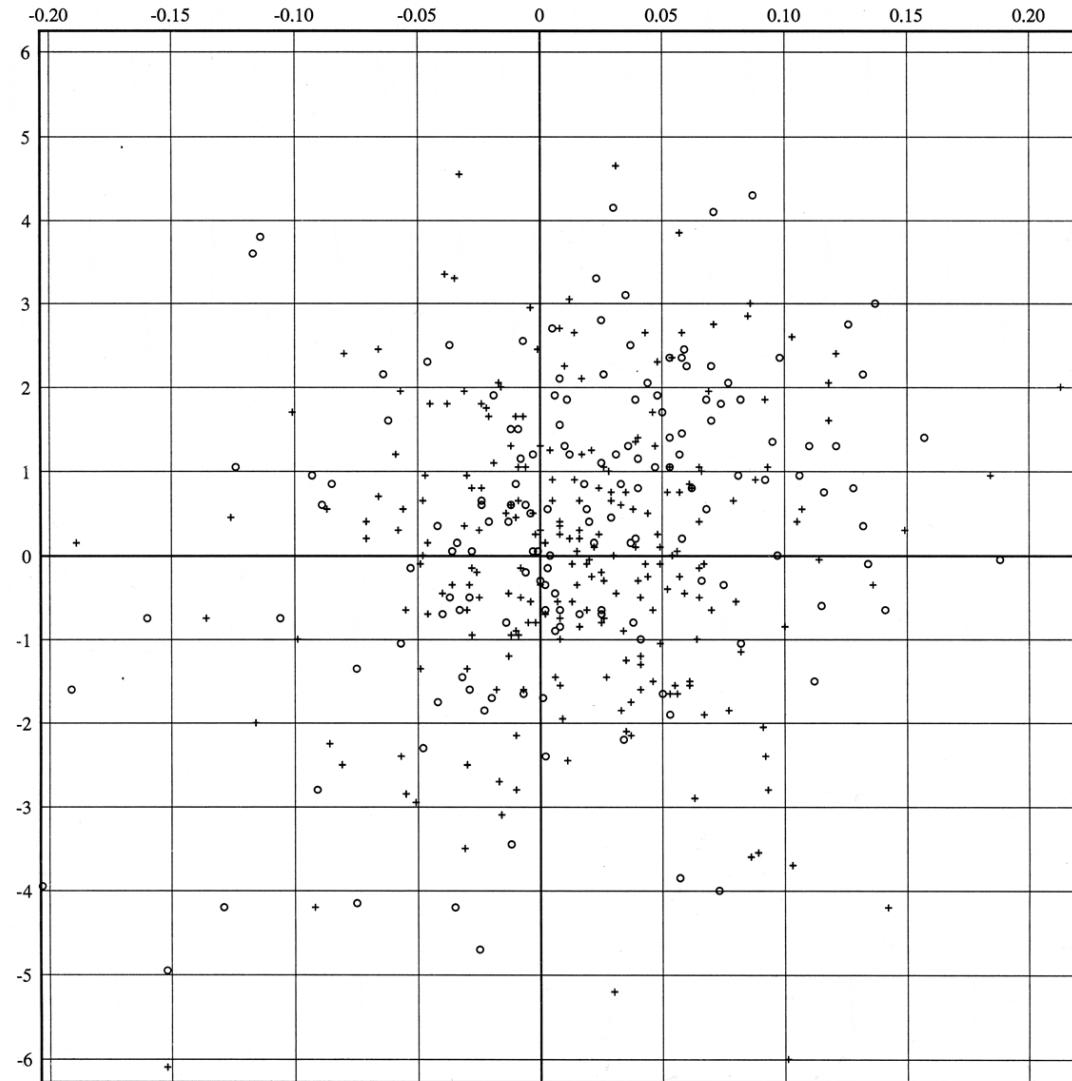
Average Time to Do Taxes by Health Expenditure (%GDP)



marketTestData

Friday, July 12, 1991

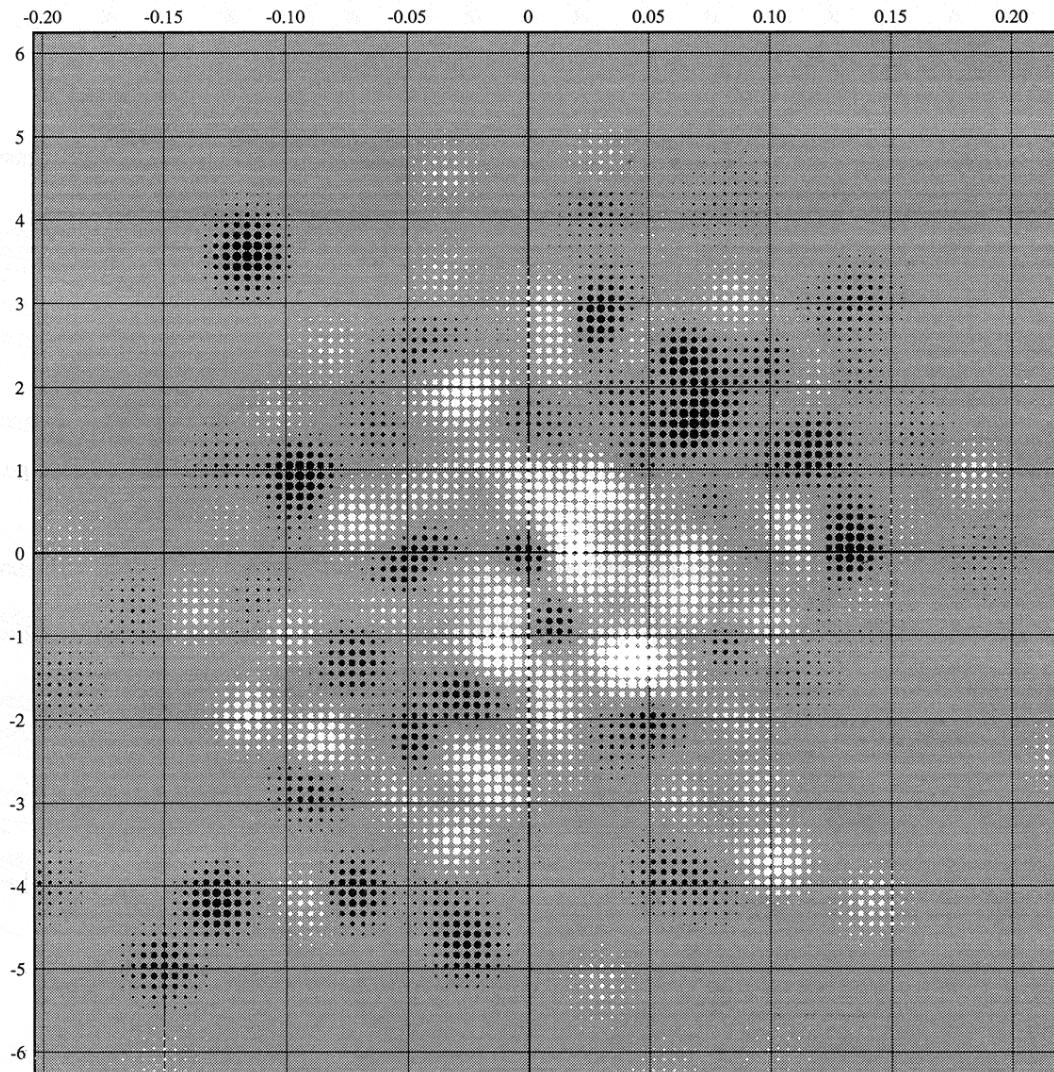
400 samples (0 within 3.0 standard deviations plotted), with Z clamped to 3.0 standard deviations, with data points plotted (o < 0 < +)



marketTestData

Friday, July 12, 1991

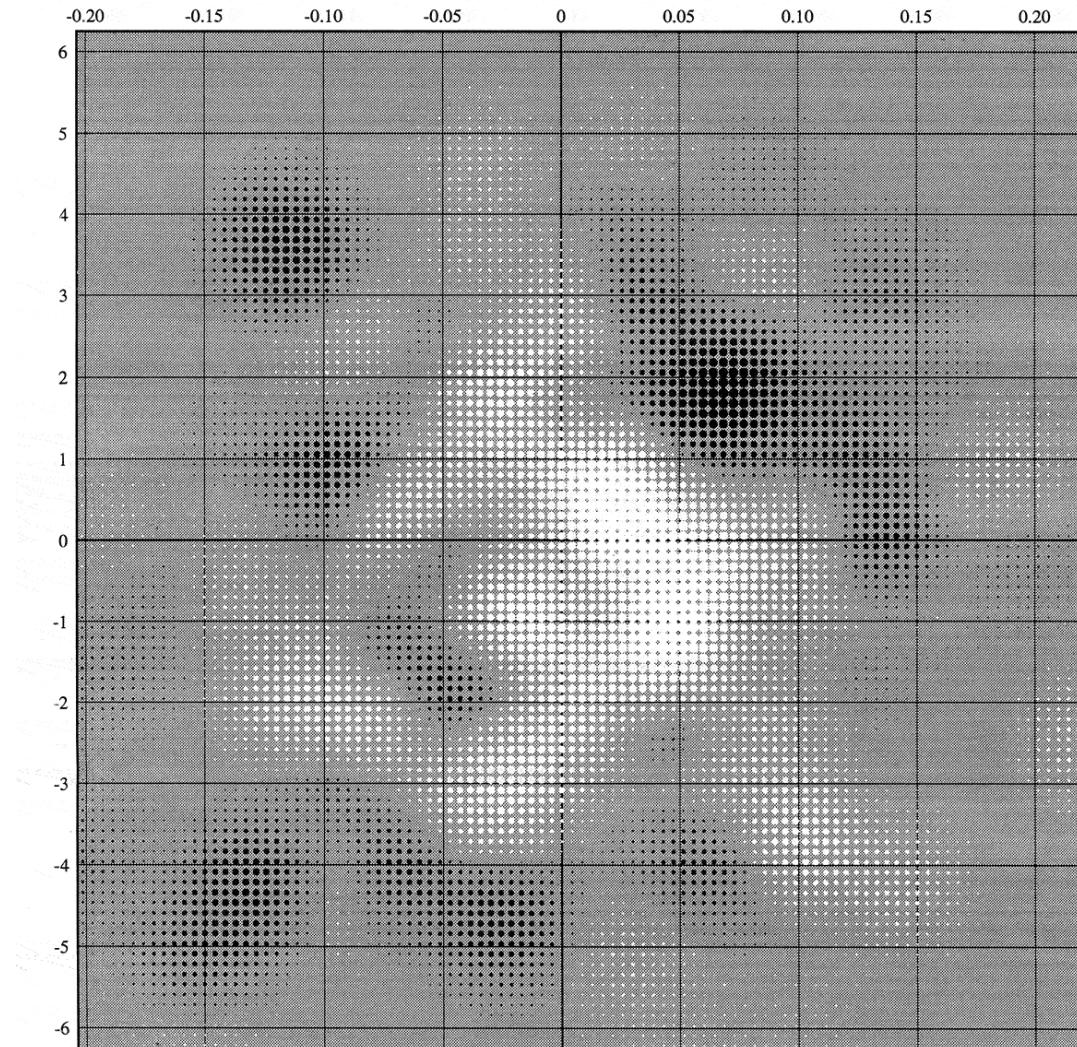
400 samples (387 within 3.0 standard deviations plotted), with Z clamped to 3.0 standard deviations, convolved with a gaussian (sigma: 2.00)

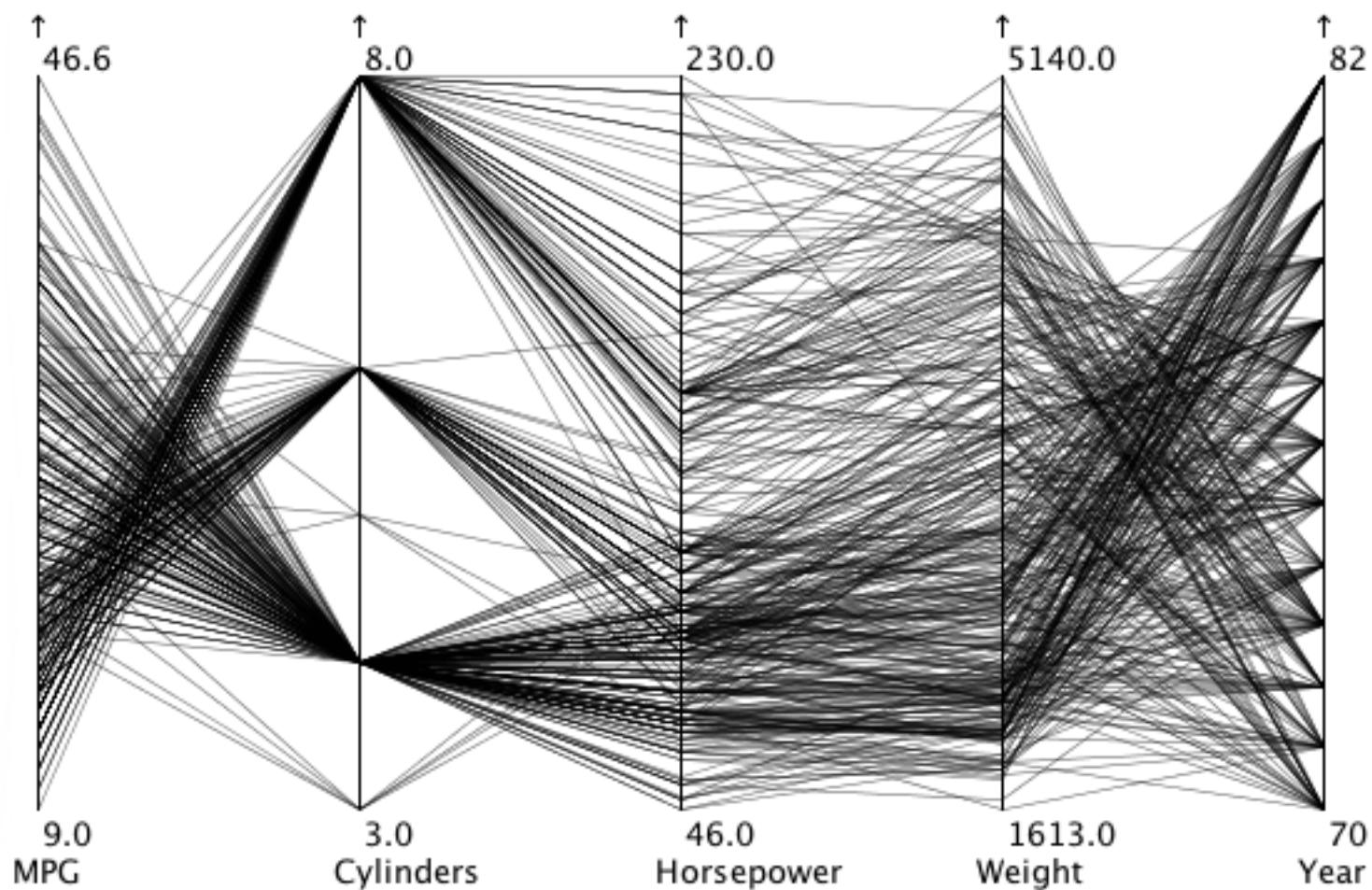


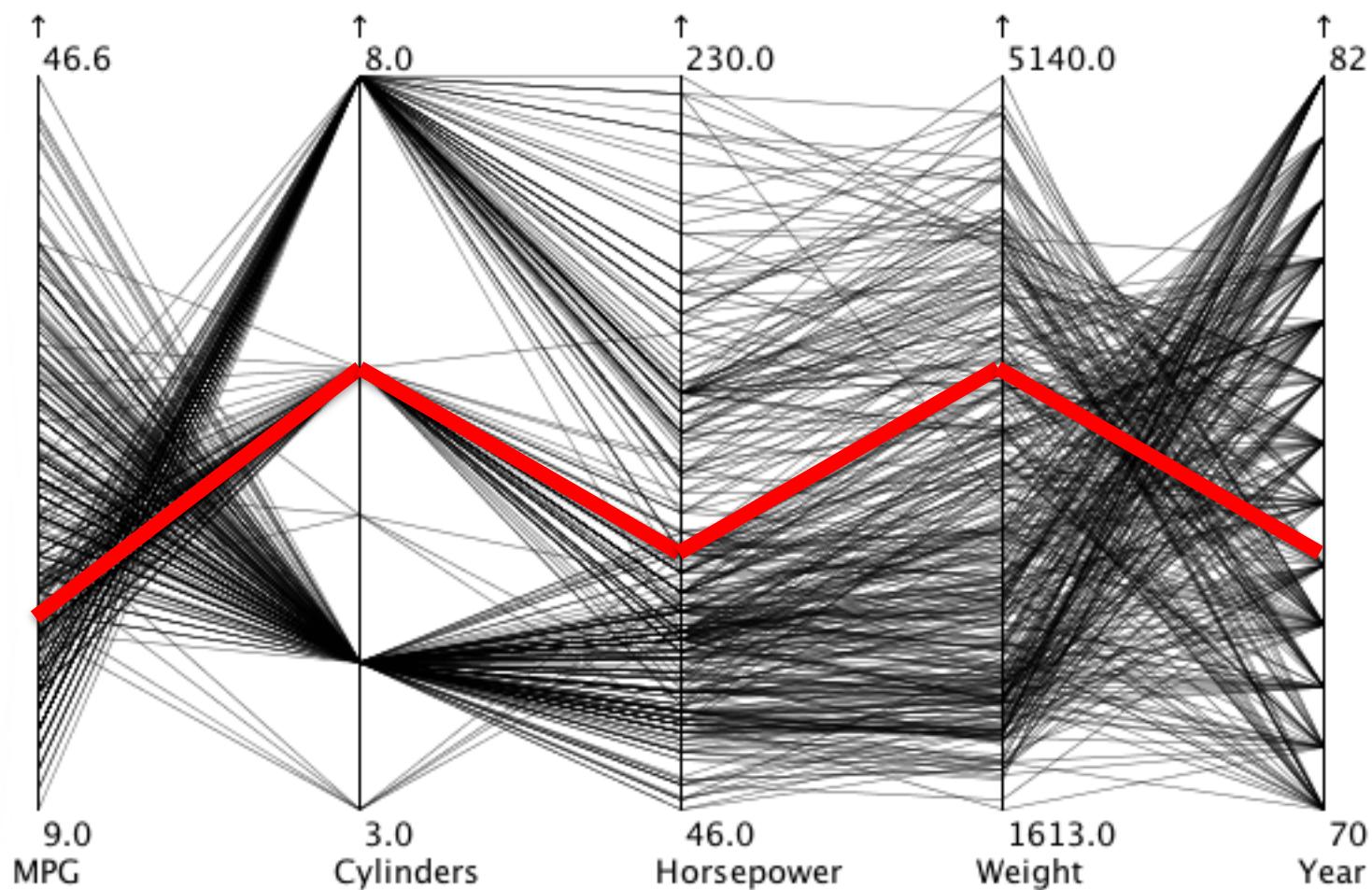
marketTestData

Friday, July 12, 1991

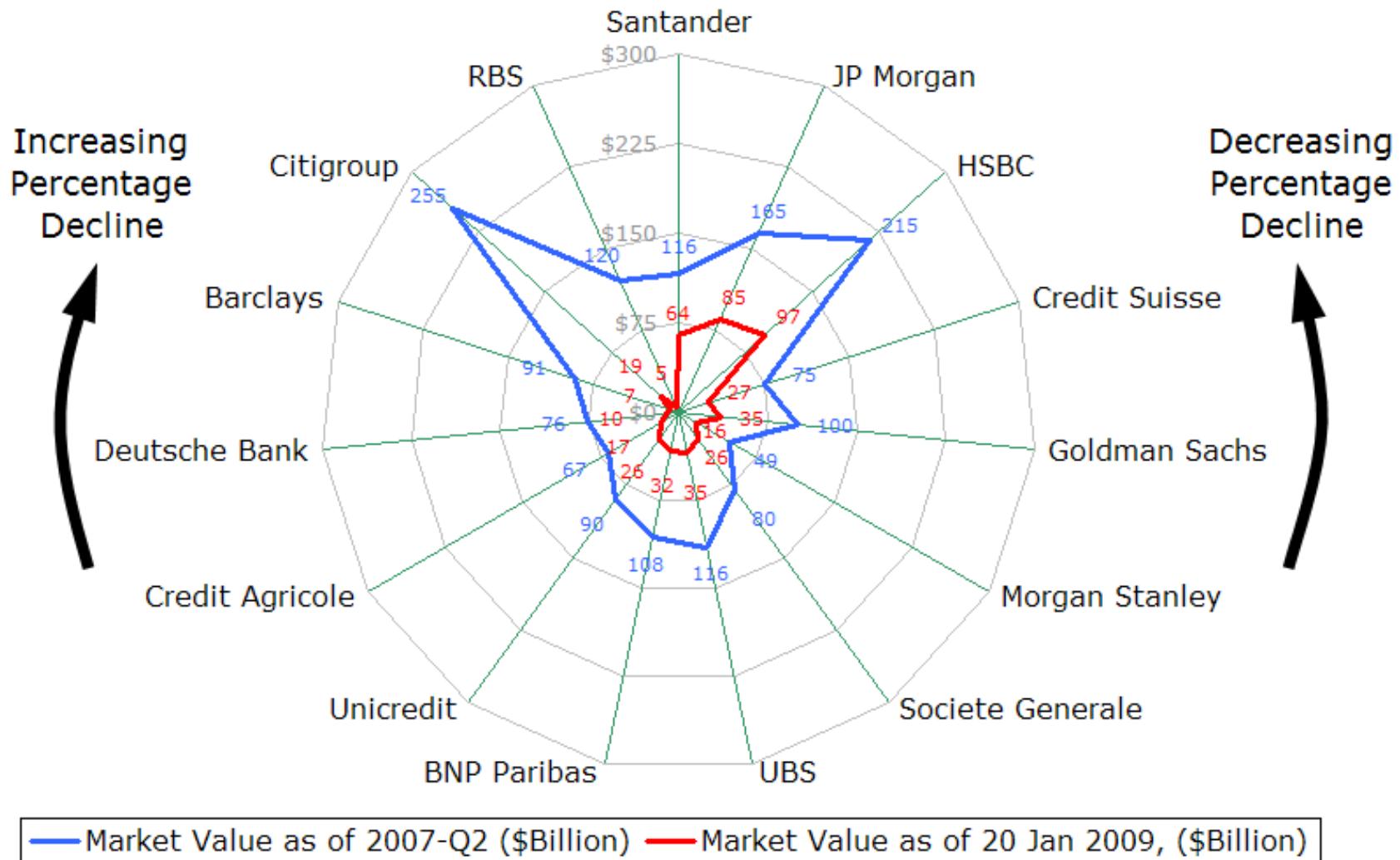
400 samples (387 within 3.0 standard deviations plotted), with Z clamped to 3.0 standard deviations, convolved with a gaussian (sigma: 4.00)







Shrinkage in Market Value of Major Banks, 2007-Q2 to 20 January 2009

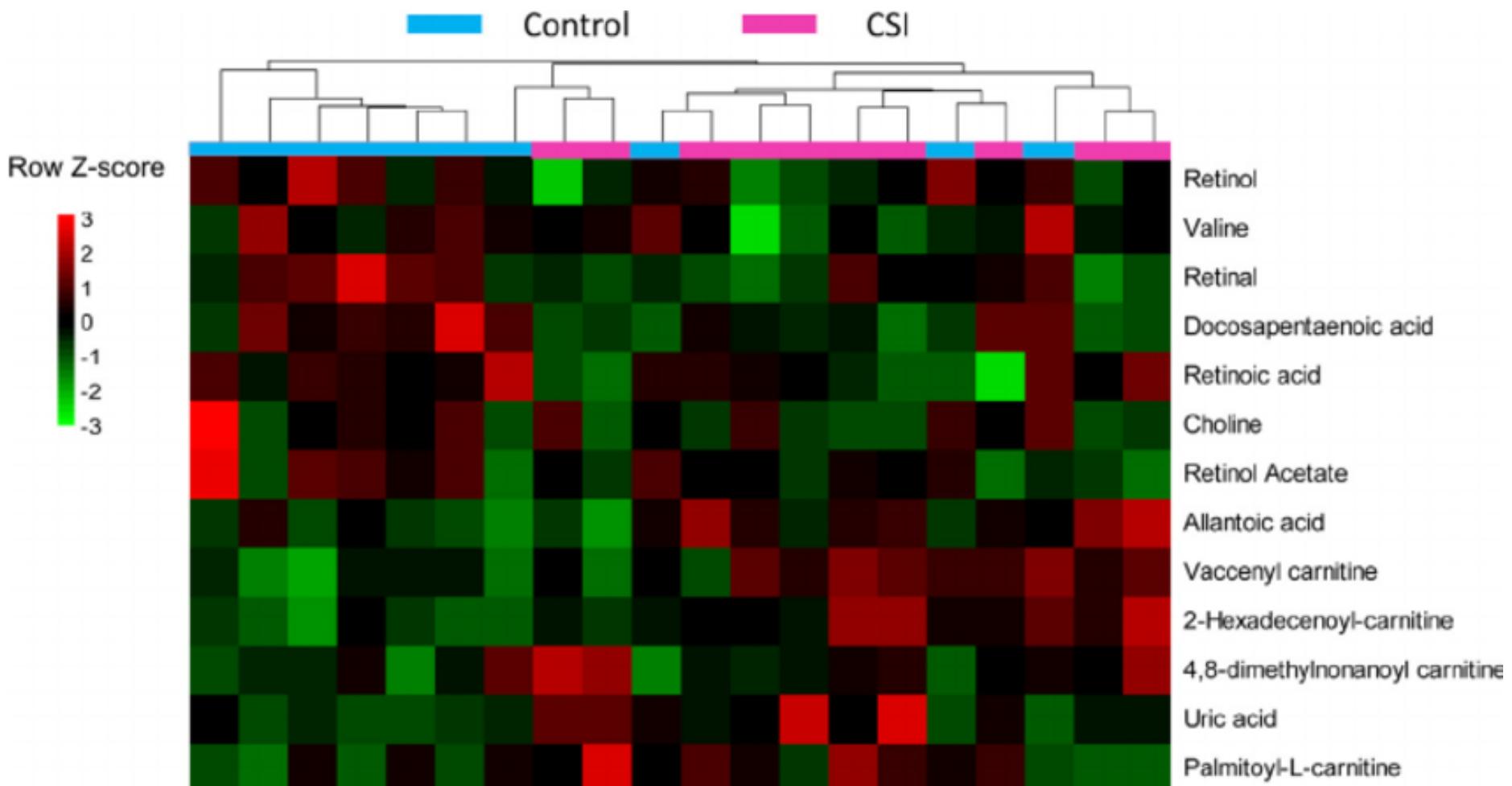


— Market Value as of 2007-Q2 (\$Billion) — Market Value as of 20 Jan 2009, (\$Billion)

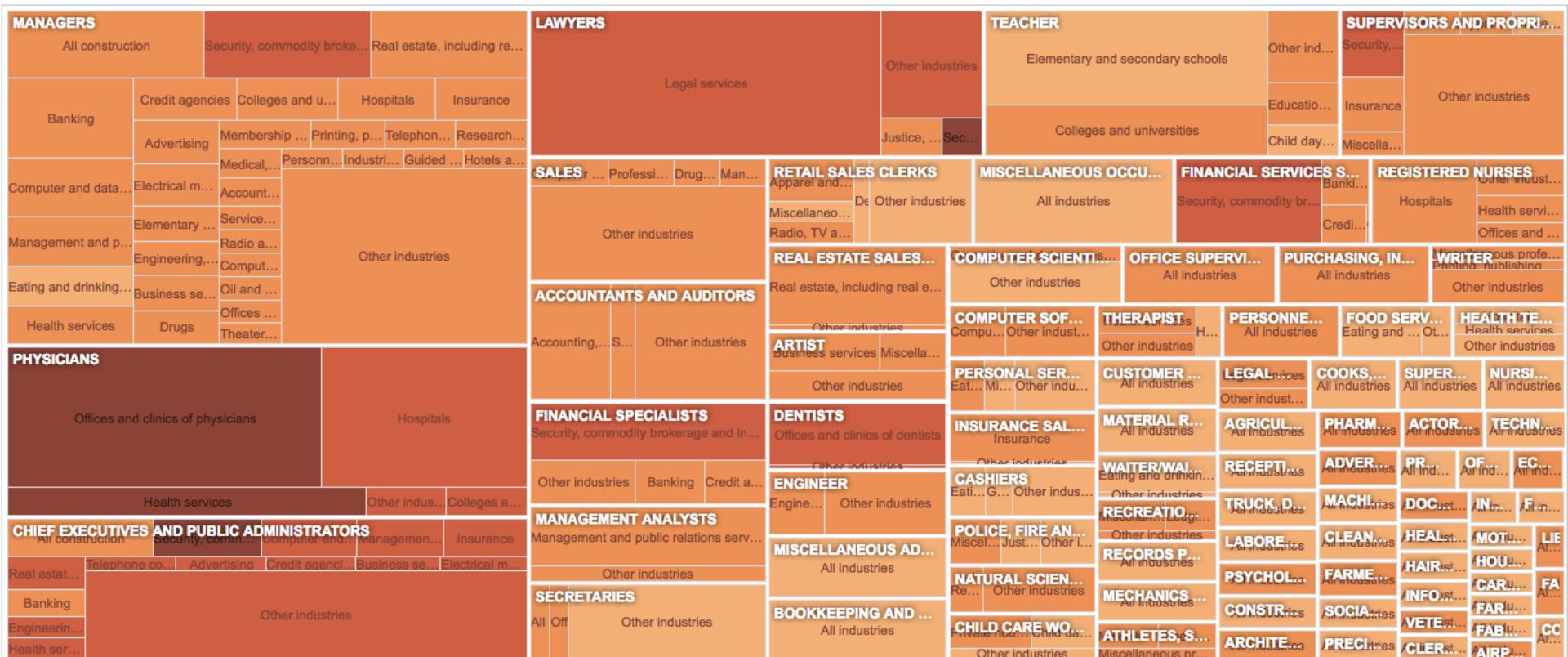
Source: Bloomberg 20 January 2009

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	Sun	Mon	Tue	Wed	Thu	Fri	Sat
0000	2.59	0.66	0.68	1.35	1.35	2.03	1.6
0100	1.39	0.7	0.95	1.22	1.08	1	2.12
0200	2.87	0.59	1.02	1.22	0.57	1.08	3
0300	0.99	0.25	0.5	0.48	0.5	0.99	1.7
0400	1.06	0.42	0.17	0.56	0.24	0.3	0.48
0500	0.32	0.23	0.39	0.22	0.47	0.47	0.44
0600	0.42	0.41	0.57	0.6	0.64	0.5	0.49
0700	0.38	1.29	0.77	0.86	1.42	1.14	1.22
0800	0.53	1.05	1.77	1.56	1.32	1.58	1.67
0900	0.62	2.04	2.97	1.45	2.96	1.92	2.32
1000	1.37	2.09	3.67	1.87	2.52	1.47	2.29
1100	0.98	3.27	1.6	3.32	2.89	2.09	1.27
1200	1.81	3.41	2.66	2.7	3.24	2.84	1.35
1300	2.38	1.79	2.15	1.91	1.64	1.43	2.49
1400	2.31	2.69	3.19	2.98	2.85	3.69	1.17
1500	1.44	1.46	1.44	3.46	1.55	3.55	2.35
1600	1.18	2.61	3.74	3.21	2.76	1.98	1.84
1700	1.52	3.45	1.4	1.99	1.79	3.33	2.1
1800	2.09	2.53	1.64	1.37	3.15	3.1	1.21
1900	2.67	1.2	1.44	2.04	2.58	1.16	2.34
2000	1.5	2.31	2.58	1.89	2.76	1.96	1.75
2100	0.81	1.7	1.97	1.76	0.99	3.16	1.92
2200	1.24	1.91	1.97	1.48	2.22	2.93	1.63
2300	1.69	1.55	1.74	1.29	2.01	1.97	3.87



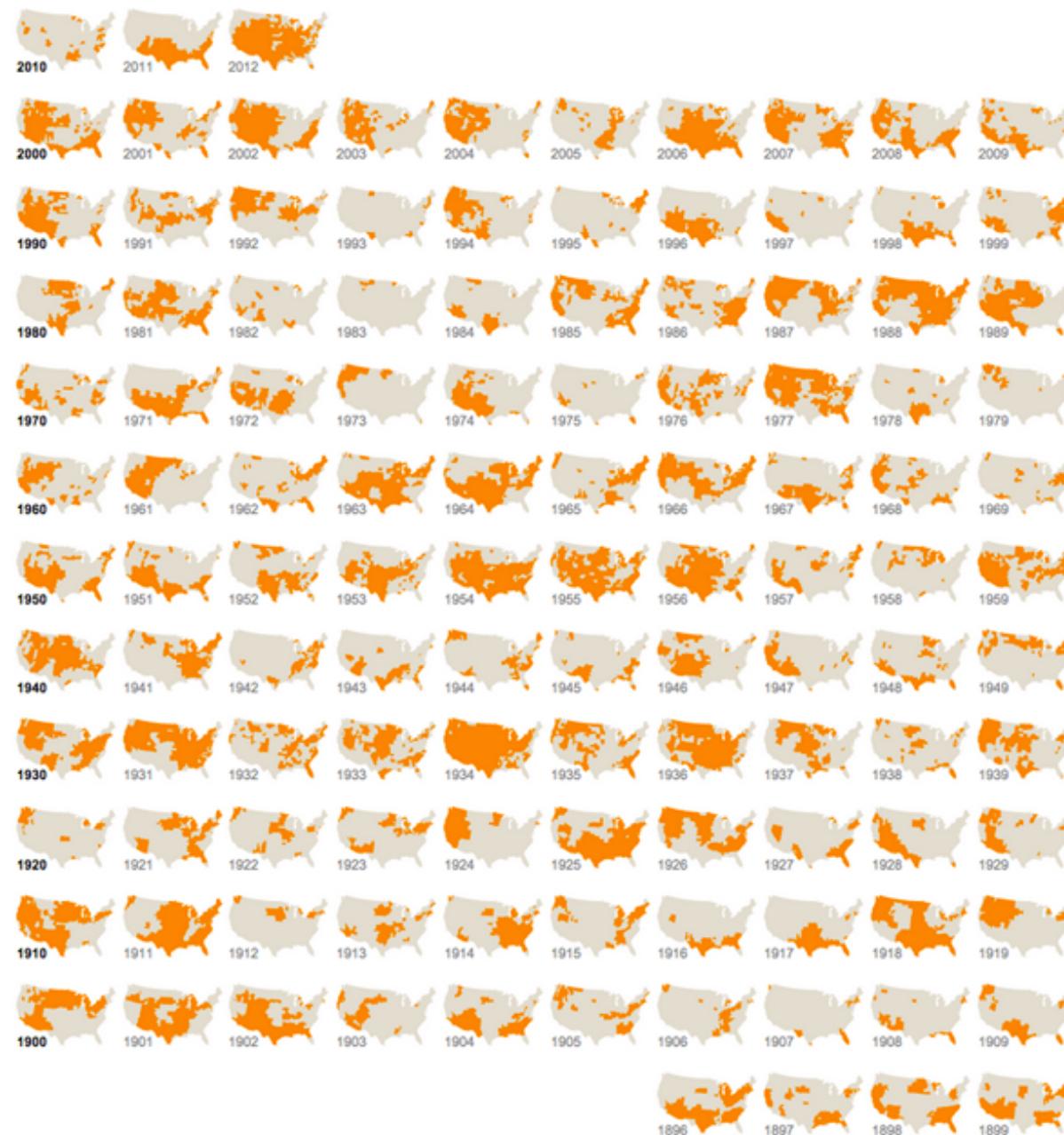
Feng et al., "Chronical sleep interruption-induced cognitive decline assessed by a metabolomics method,"
Behavioral Brain Research, 302 (2015)



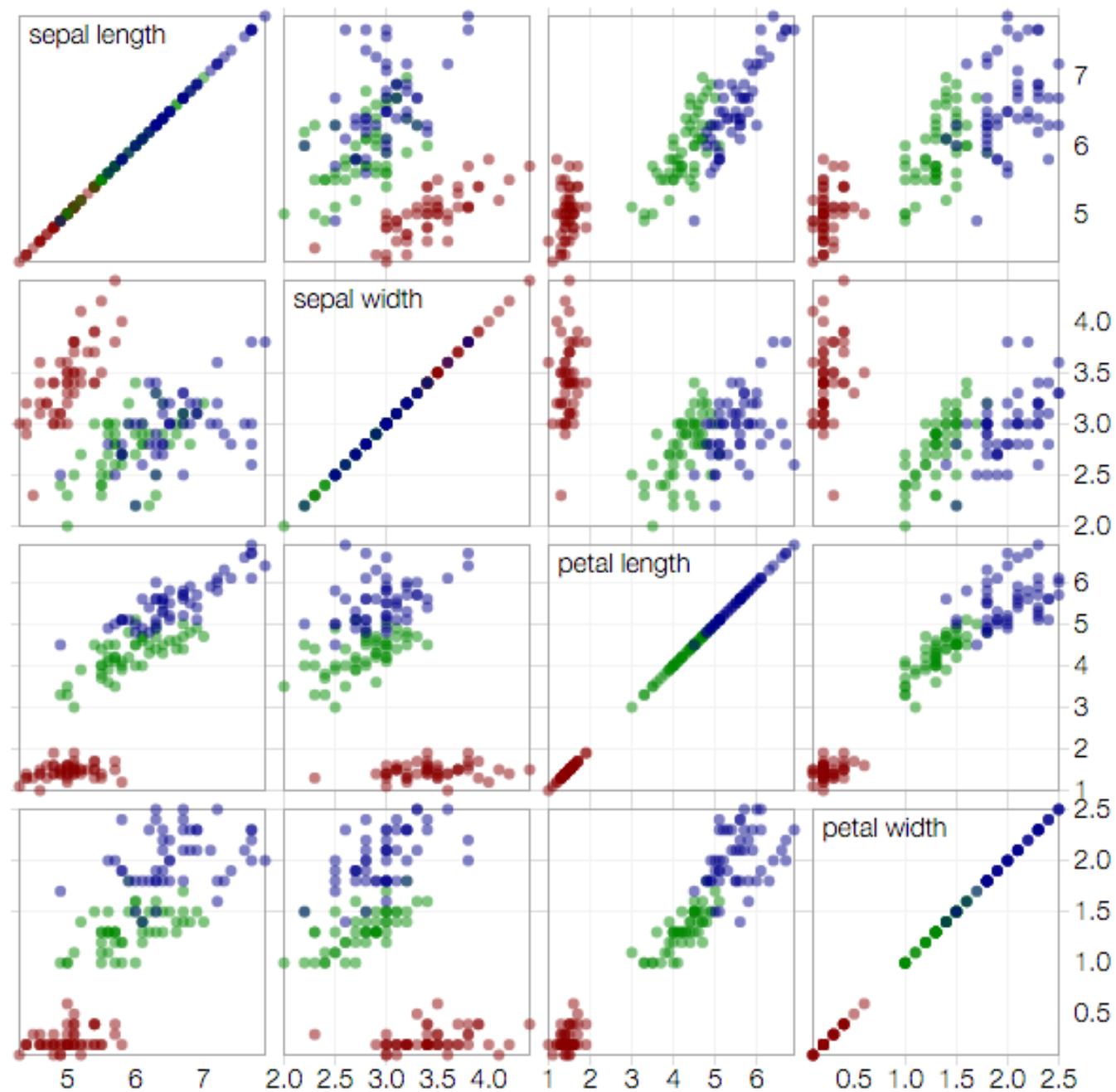


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December 2010



	Total	Low	High	6/1/2008	6/2/2008
All Books	\$ 325,926	\$8,021	\$13,466	\$ 9,161	\$ 8,641
Arts & Photography	\$ 42,844	\$776	\$1,995	\$ 996	\$ 711
Children's Books	\$ 43,595	\$786	\$1,951	\$ 1,368	\$ 1,301
Computers & Internet	\$ 43,187	\$799	\$1,995	\$ 1,358	\$ 791
History	\$ 25,722	\$350	\$1,407	\$ 1,021	\$ 831
Mystery & Thrillers	\$ 44,833	\$758	\$1,984	\$ 1,471	\$ 991
Romance	\$ 42,365	\$791	\$1,988	\$ 1,129	\$ 1,411
Science Fiction & Fantasy	\$ 41,377	\$789	\$1,936	\$ 859	\$ 1,401
Sports	\$ 41,871	\$756	\$1,937	\$ 959	\$ 991



Which Is Best?

Depends on the data

Berkeley

SCHOOL OF
INFORMATION