Heritability by Subgroup

Joe Rodger's BG Team

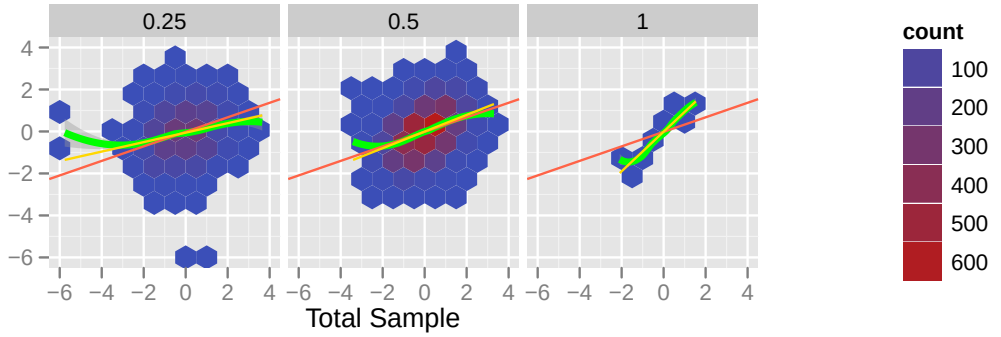
December 2, 2011

Gen2 Link Version: 2011V28.
Subjects were 19+ years old. Implicit ambiguous sibs were assigned R=0.375. Z-Scores are restricted to +/-10.
Counts reflect the double entry.

Subgroup	N	h^2	c^2	e^2	$\bar{X}$	σ	σ^3	$N_{.25}$	$N_{.375}$	$N_{.5}$	$N_{.75}$	N_{Mz}	$r_{.25}$	$r_{.375}$	$r_{.5}$	r_{Mz}
Total	7098	0.72	0.04	0.24	-0.03	1.01	-0.03	2206	0	4864	0	28	0.23		0.40	0.94
FF	1770	0.84	0.04	0.12	-0.05	1.02	0.04	574	0	1186	0	10	0.25		0.46	0.95
MF	3532	0.66	0.05	0.29	0.00	1.02	-0.06	1110	0	2422	0	0	0.22		0.38	
MM	1796	0.73	0.01	0.27	-0.07	0.99	-0.03	522	0	1256	0	18	0.20		0.36	0.94
Hispanic	1778	0.23	0.29	0.48	-0.40	0.96	0.13	404	0	1372	0	2	0.36		0.40	-1.00
Black	2898	0.68	-0.03	0.35	-0.02	1.01	0.00	1380	0	1508	0	10	0.15		0.31	0.88
NBNH	2422	0.50	0.11	0.39	0.24	0.96	-0.17	422	0	1984	0	16	0.25		0.35	0.95
Hisp FF	410	-0.07	0.48	0.58	-0.45	0.93	0.23	108	0	302	0	0	0.47		0.45	
Hisp MF	852	0.32	0.23	0.45	-0.36	0.99	0.14	196	0	656	0	0	0.31		0.39	
Hisp MM	516	0.39	0.21	0.40	-0.44	0.93	0.01	100	0	414	0	2	0.34		0.39	-1.00
Black FF	778	0.62	0.02	0.36	-0.02	1.03	-0.04	382	0	392	0	4	0.18		0.32	0.80
Black MF	1450	0.72	-0.03	0.30	-0.00	1.02	-0.01	690	0	760	0	0	0.15		0.34	
Black MM	670	0.69	-0.11	0.42	-0.05	0.97	0.07	308	0	356	0	6	0.08		0.20	0.89
NBNH FF	582	1.00	-0.02	0.02	0.19	0.98	0.00	84	0	492	0	6	0.23		0.48	0.97
NBNH MF	1230	0.31	0.16	0.53	0.26	0.96	-0.23	224	0	1006	0	0	0.23		0.31	
NBNH MM	610	0.29	0.17	0.55	0.22	0.96	-0.23	114	0	486	0	10	0.28		0.29	0.94

Table 1: Height Heritability

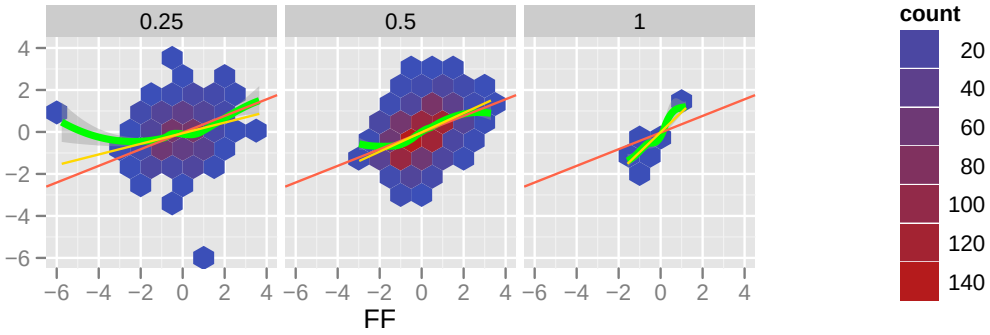
1 Total Sample

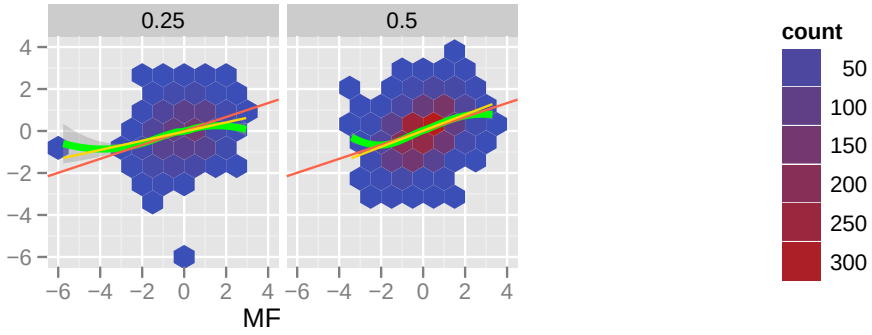


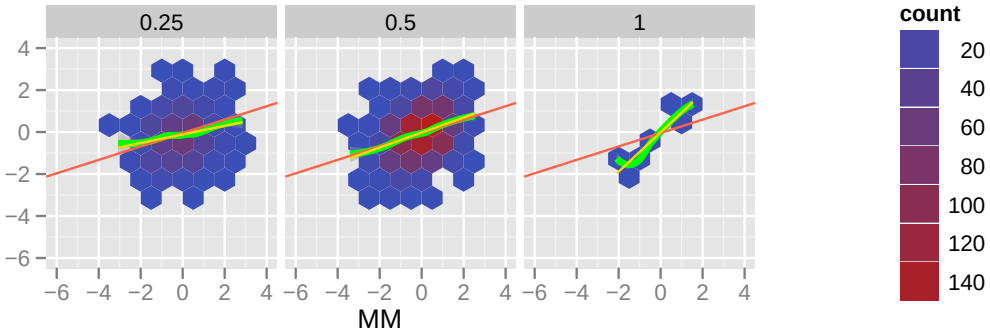
Plot Explanation: Each row of graphs isolates a subgroup.
Each cell in a row isolates a unique value of R; this is displayed in the gray header above each cell.
Axis and hexbin sizes are constants across all rows.
The orange line is the LS regression for the row (repeated in each cell).
The yellow line is the LS regression for the cell.
The green line is the loess for each cell. It's bandwidth is not constant across allrows.
The hexbin density color is not constant across rows.
Relevant portions of the table are repeated on each page.

2 By Gender

Subgroup	h^2	c^2	e^2	$N_{.25}$	$N_{.375}$	$N_{.5}$	$N_{.75}$	N_{Mz}	$r_{.25}$	$r_{.375}$	$r_{.5}$	r_{Mz}
Total	0.72	0.04	0.24	2206	0	4864	0	28	0.23		0.40	0.94
FF	0.84	0.04	0.12	574	0	1186	0	10	0.25		0.46	0.95
MF	0.66	0.05	0.29	1110	0	2422	0	0	0.22		0.38	
MM	0.73	0.01	0.27	522	0	1256	0	18	0.20		0.36	0.94

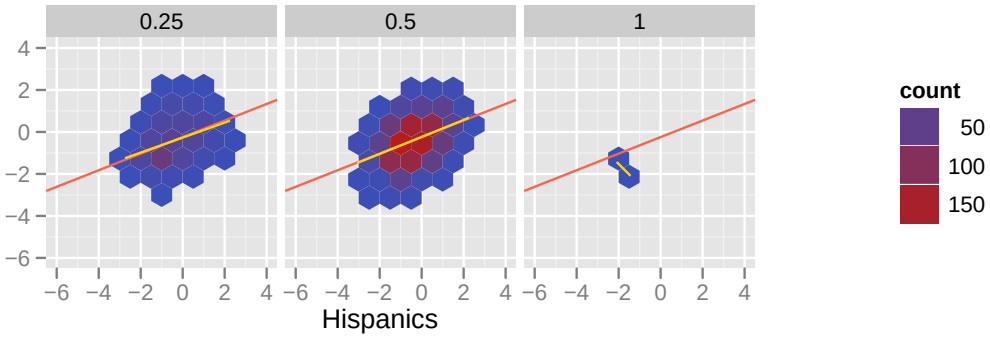


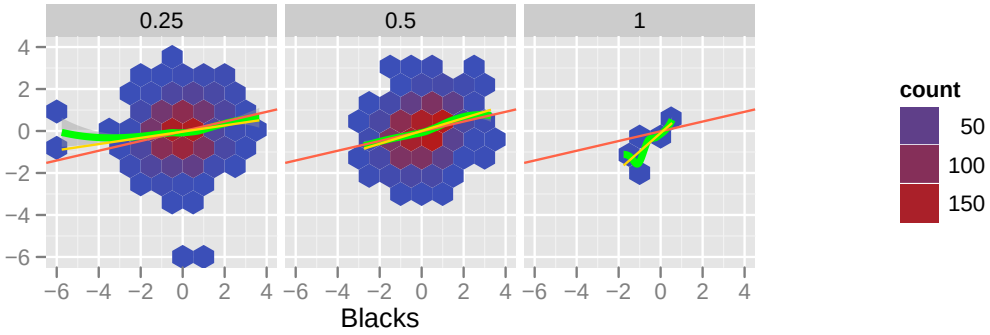


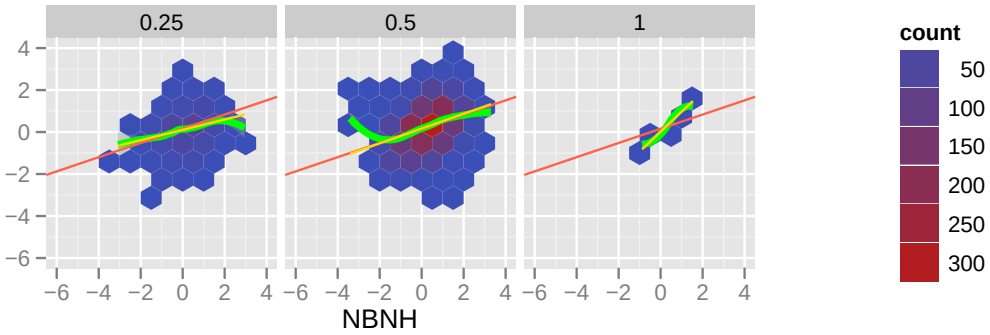


3 By Race

Subgroup	h^2	c^2	e^2	$N_{.25}$	$N_{.375}$	$N_{.5}$	$N_{.75}$	N_{Mz}	$r_{.25}$	$r_{.375}$	$r_{.5}$	r_{Mz}
Total	0.72	0.04	0.24	2206	0	4864	0	28	0.23		0.40	0.94
Hispanic	0.23	0.29	0.48	404	0	1372	0	2	0.36		0.40	-1.00
Black	0.68	-0.03	0.35	1380	0	1508	0	10	0.15		0.31	0.88
NBNH	0.50	0.11	0.39	422	0	1984	0	16	0.25		0.35	0.95

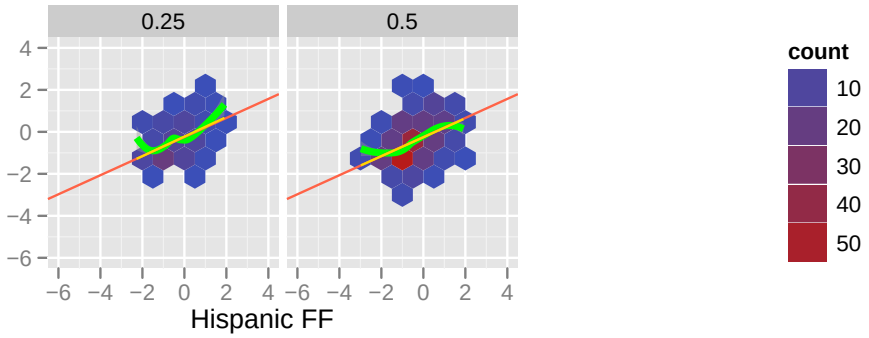


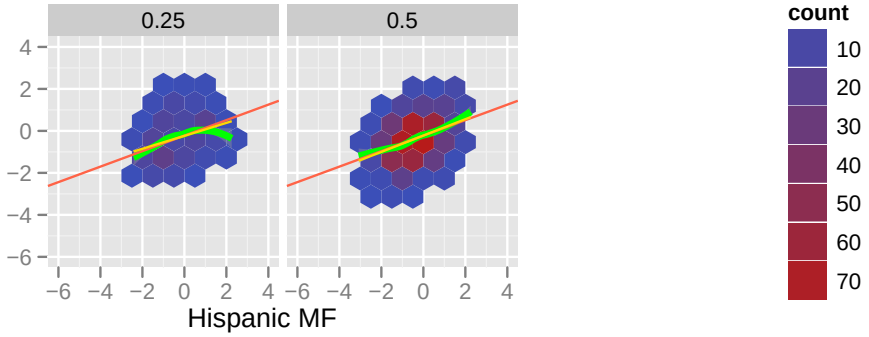


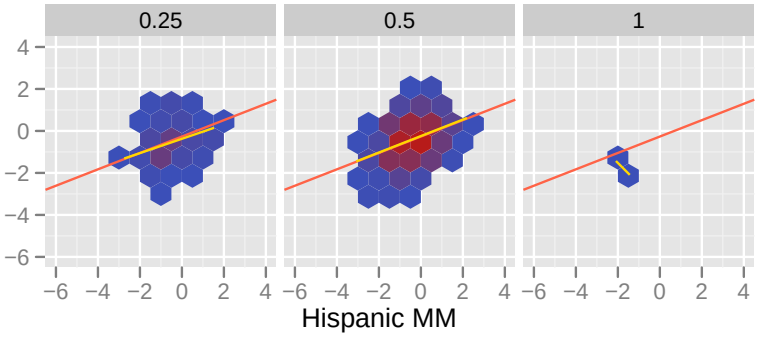


4 By Gender for Hispanics

Subgroup	h^2	c^2	e^2	$N_{.25}$	$N_{.375}$	$N_{.5}$	$N_{.75}$	N_{Mz}	$r_{.25}$	$r_{.375}$	$r_{.5}$	r_{Mz}
Total	0.72	0.04	0.24	2206	0	4864	0	28	0.23		0.40	0.94
Hispanic	0.23	0.29	0.48	404	0	1372	0	2	0.36		0.40	-1.00
Hisp FF	-0.07	0.48	0.58	108	0	302	0	0	0.47		0.45	
Hisp MF	0.32	0.23	0.45	196	0	656	0	0	0.31		0.39	
Hisp MM	0.39	0.21	0.40	100	0	414	0	2	0.34		0.39	-1.00

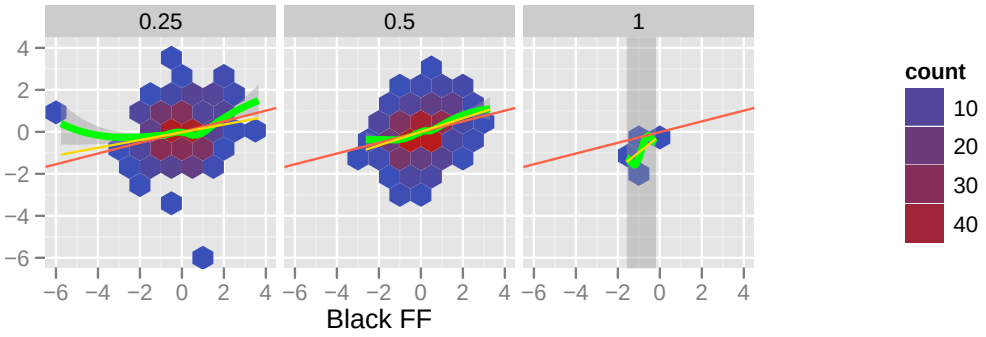


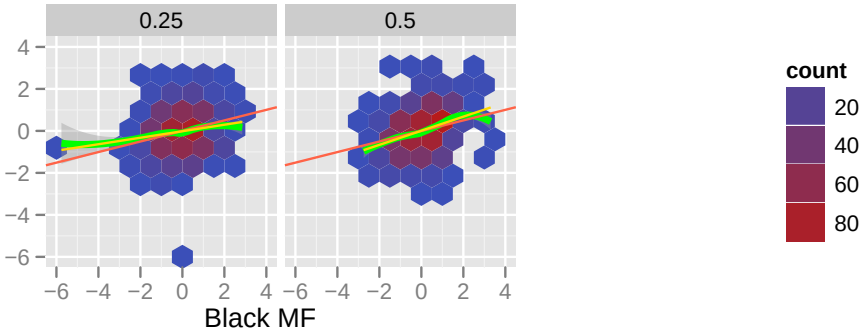


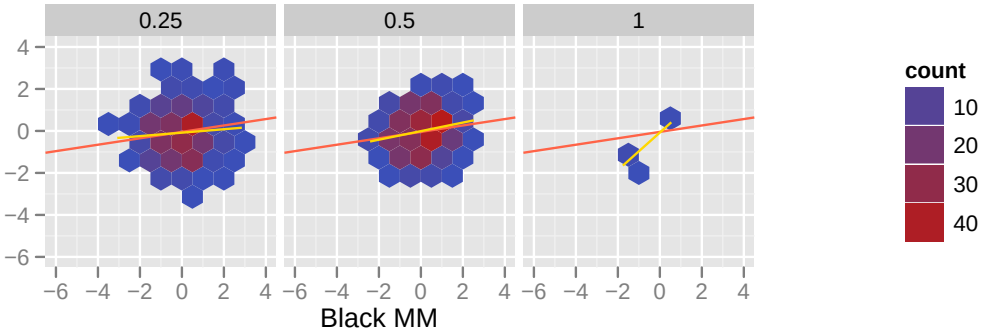


5 By Gender for Blacks

Subgroup	h^2	c^2	e^2	$N_{.25}$	$N_{.375}$	$N_{.5}$	$N_{.75}$	N_{Mz}	$r_{.25}$	$r_{.375}$	$r_{.5}$	r_{Mz}
Total	0.72	0.04	0.24	2206	0	4864	0	28	0.23		0.40	0.94
Black	0.68	-0.03	0.35	1380	0	1508	0	10	0.15		0.31	0.88
Black FF	0.62	0.02	0.36	382	0	392	0	4	0.18		0.32	0.80
Black MF	0.72	-0.03	0.30	690	0	760	0	0	0.15		0.34	
Black MM	0.69	-0.11	0.42	308	0	356	0	6	0.08		0.20	0.89







6 By Gender for NBNHs

Subgroup	h^2	c^2	e^2	$N_{.25}$	$N_{.375}$	$N_{.5}$	$N_{.75}$	N_{Mz}	$r_{.25}$	$r_{.375}$	$r_{.5}$	r_{Mz}
Total	0.72	0.04	0.24	2206	0	4864	0	28	0.23		0.40	0.94
NBNH	0.50	0.11	0.39	422	0	1984	0	16	0.25		0.35	0.95
NBNH FF	1.00	-0.02	0.02	84	0	492	0	6	0.23		0.48	0.97
NBNH MF	0.31	0.16	0.53	224	0	1006	0	0	0.23		0.31	
NBNH MM	0.29	0.17	0.55	114	0	486	0	10	0.28		0.29	0.94