



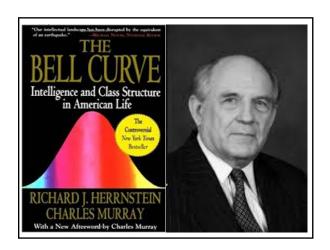
Equal intelligence was seen as a pre requisite for surfrage.

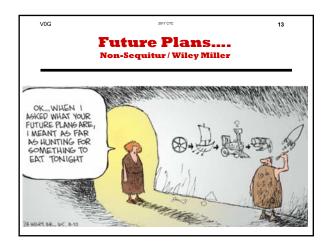
Terman explained lack of intellectual careers for women:

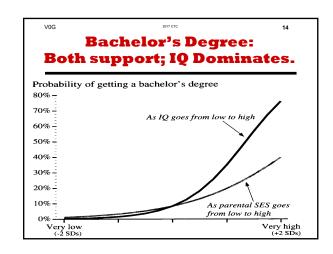
- Motherhood
- · Discrimination
- · Lack of opportunity

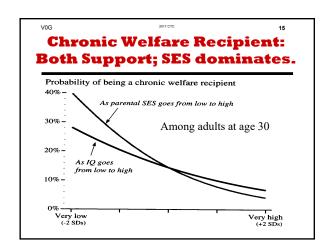
Terman used IQ to liberate women. Terman was a man ahead of his time.

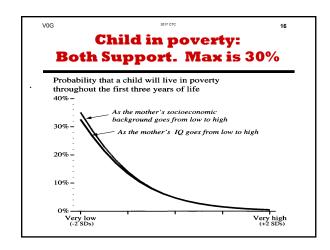


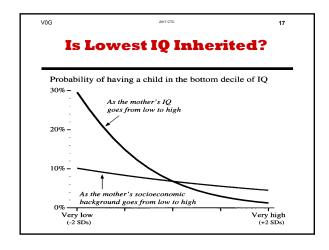


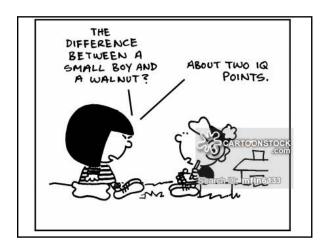


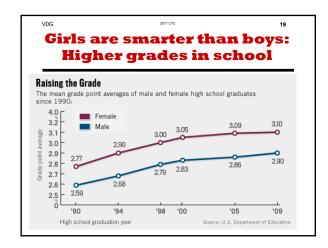


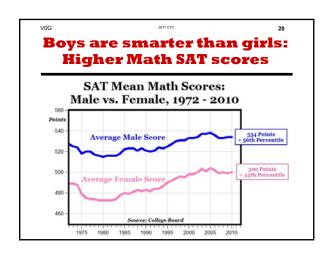


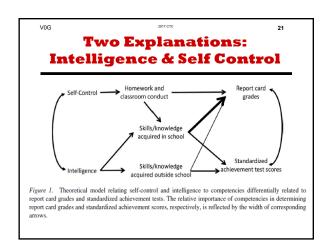


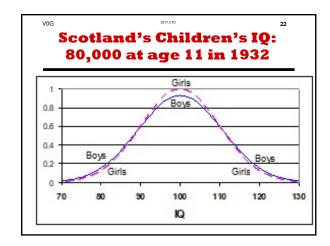


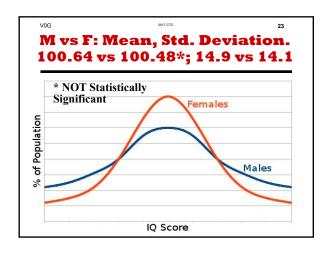


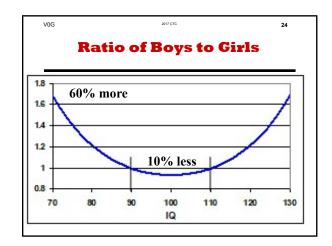












IQ and Crime

- There is an IQ gap of 8–10 points between criminals and noncriminals, even when statistically controlled for race and social class.
- IQ is not a very strong indicator of criminal behavior.
 - But, it does consistently predict

02012 Jens & Reder Lawring LL

Guys dumber than gals? Prison: Men 3 times as likely

Why?

- 1. Society discriminates against men.
- 2. On average, men have lower IQ than women
- 3. Men have less self-control than women
- 4. Low-IQ guys less self-control than low-IQ gals.

Lack of self-control seems relevant to committing a crime

Guys dumber than gals? ADHD: Men 3 times as likely

Why?

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- 2. On average, men have lower IQ than women
- 3. Men have less self-control than women
- 4. Low-IQ guys less self-control than low-IQ gals.

Lack of self-control seems relevant to ADHD.

* ADHD: Attention Deficit Hyperactivity Disorder https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3101894/

Guys dumber than gals? Mental Retardation: 50% more guys

Mentally retarded (IQ<65): M-to-F is 3-to-2. 50% more prevalent among males than females https://mn.gov/mnddc/parallels2/pdf/80s/82/82-PMR-ARC.pdf

Mental retardation does not seem like a lack of self-control



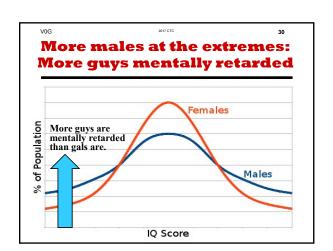
Guys dumber than gals? Conclusion #1: NO!

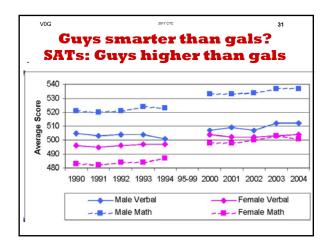
Guys 50% more likely to be mentally retarded than gals.

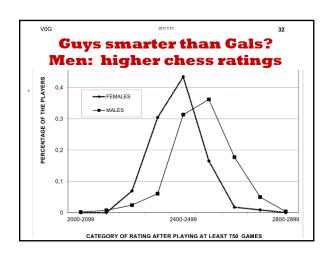
- 1. Society discriminates against boys. NO!
- 2. On average, boys have lower IQ than gals? NO!
- 3. Guys less self-control than gals.

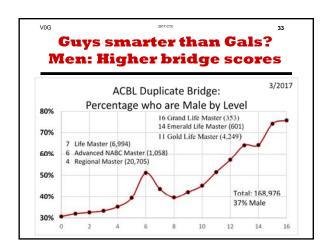
Probably; This is not relevant to mental retardation.

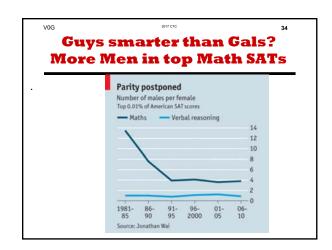
More low-IQ guys than low IQ gals AND "SELECTION BIAS" Just looking at bottom.

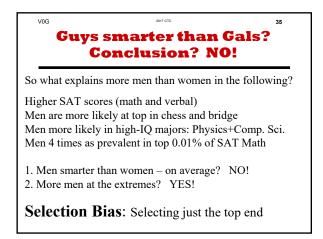


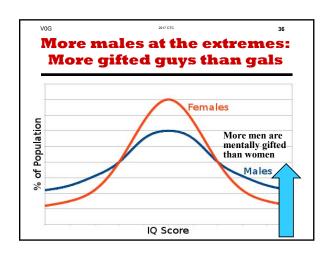












Conclusion #3 Differences due to Selection Bias

More men at IQ extremes + selection bias explain:

BOTTOM END:

Mentally retarded: 50% more male than female

TOP END:

Higher SAT scores (math and verbal) Men are more likely at top in chess and bridge Men more likely in high-IQ majors: Physics+Comp. Sci. Men 4 times as prevalent in top 0.01% of SAT Math

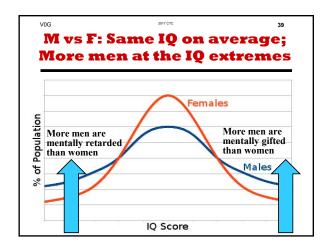
Are men smarter than women? No and Yes...

Smarter on average? No!

More men than women among high IQ? Yes!

Selection bias – looking just at high IQ – gives weak reason for saying guys smarter than gals

More men than women among low IQ? Yes! Mental retardation: "smoking gun" Gender vs. IQ



Who's Smarter? Men or Women?

Cynthia Schield

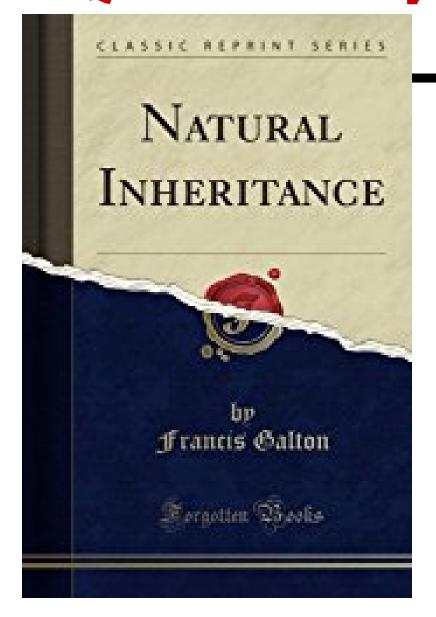
History Major, Stanford
35 Years Human Resources Manager

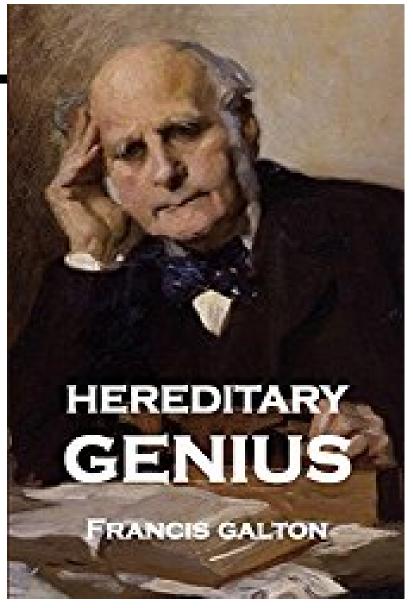
Milo Schield @ Augsburg University Teaches Statistical Literacy & Critical Thinking

> Twin Cities Critical Thinking Club Sept 3, 2017

www.StatLit.org/pdf/2017-Schield-CTC-Slides.pdf

IQ & Heredity: Francis Galton





Alfred Binet's intelligence testing: to predict school achievement

- In the late 1800s, a new law in France required universal education.
- Alfred Binet knew that some new students would need help to succeed.
- Binet develop tests to predict a child's level of success in regular education.
- Goal: to determine which students would need support.



IQ Tests: Lewis Terman Stanford-Binet

Lewis Terman

Created Stanford-Binet

Changed scoring: mental / chron X 100; 100 = average for age

Began "Terman Study"

Eugenics advocate



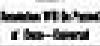


he Chicago Daily Tribune.



1.5 STERRED







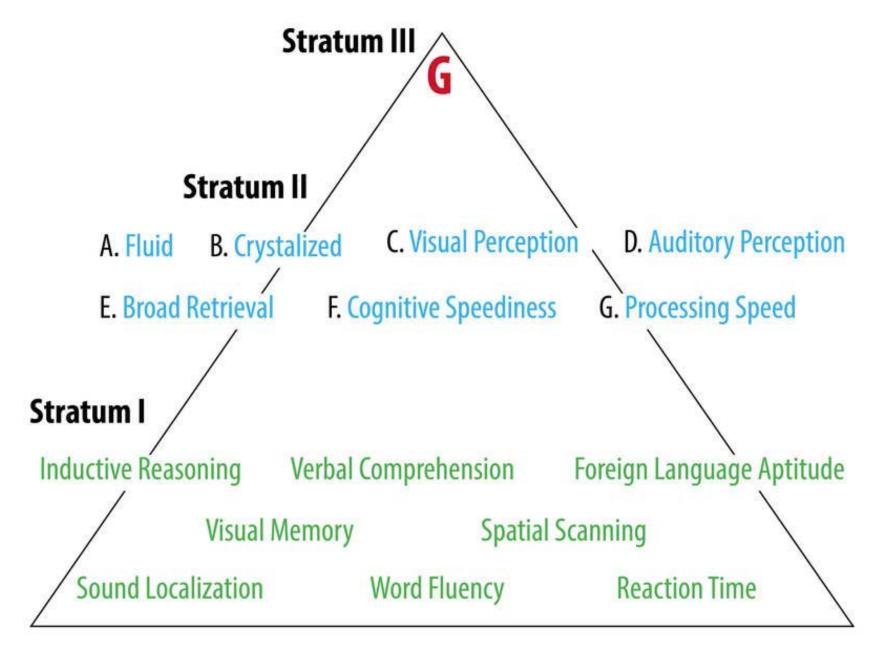
JUSTICE AND RICHTS"

A A PROPERTY OF STREET SAFETY STREET, STREET,





House by a Vote of 373 to 50 Passes Joint Resolution



V0G 2017 CTC **7**

Nature vs. Nurture

I. Q. Correlations*

Foster	parent-child	
	•	

- Parent-child .50
- Siblings reared together .49
- Fraternal twins .53
- ► Identical twins reared apart .75
- ▶ Identical twins reared together .87

*Erlenmeyer-Kimling and Jarvik, 1963

These are the correlations between various groups of IQ scores. Remember the correlation is stronger the closer the score is to 1.

Weak correlation

Strong correlation

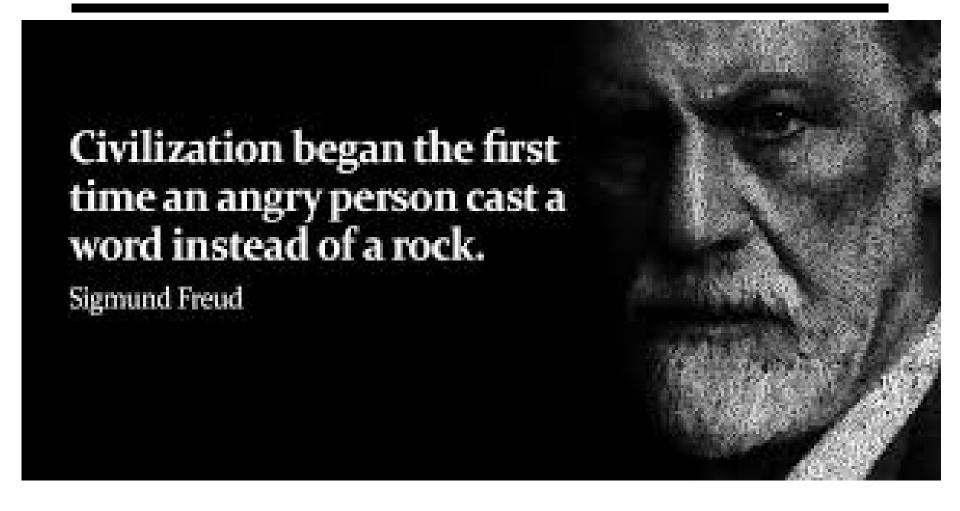
Stenographer



OKAY. Secretarial jobs in which women served men the way wives served their husbands became common at the end of the century.

Next

Wrong on women and dreams; Right on some things



Terman got it right: Girls have same IQ as boys

Equal intelligence was seen as a pre-requisite for suffrage.

Terman explained lack of intellectual careers for women:

- Motherhood
- Discrimination
- Lack of opportunity

Terman used IQ to liberate women. Terman was a man ahead of his time.

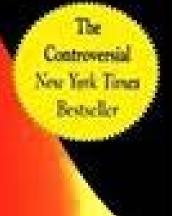


"Our intellectual landscape has been disrupted by the equivalent of an earthquake."

—Microsco Policies, Naturalis, Release

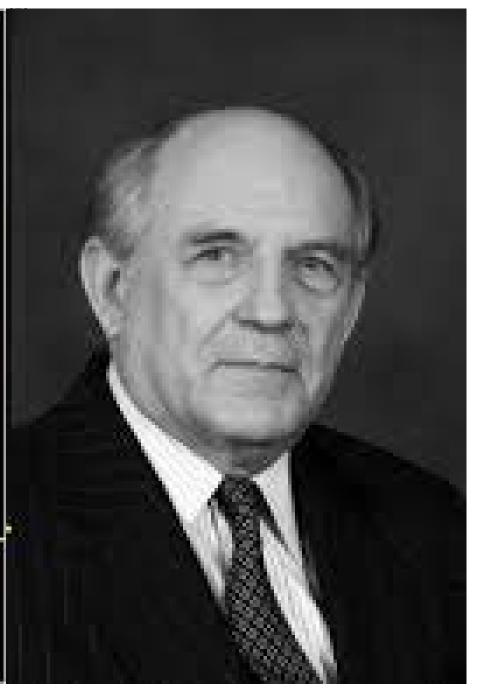
BELL CURVE

Intelligence and Class Structure in American Life



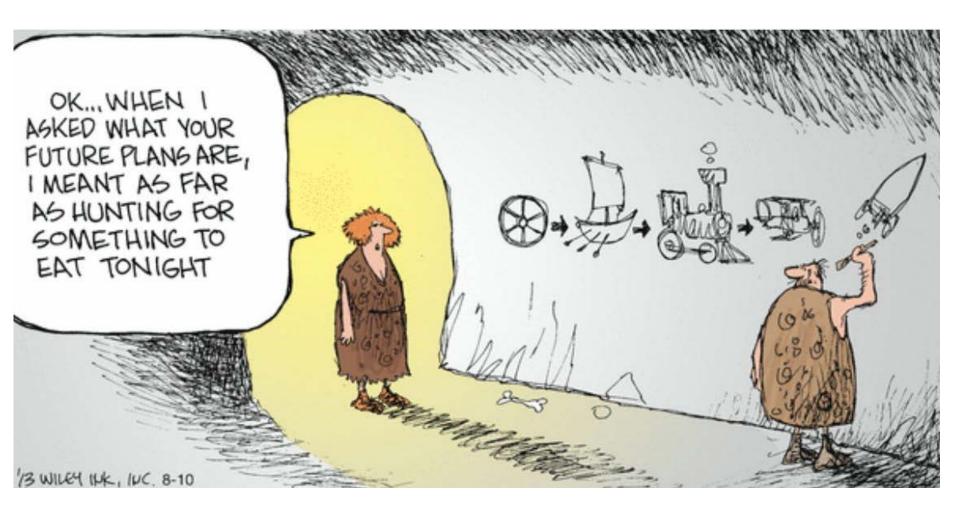
RICHARD J. HERRNSTEIN CHARLES MURRAY

With a New Afterword by Charles Murray



Future Plans....

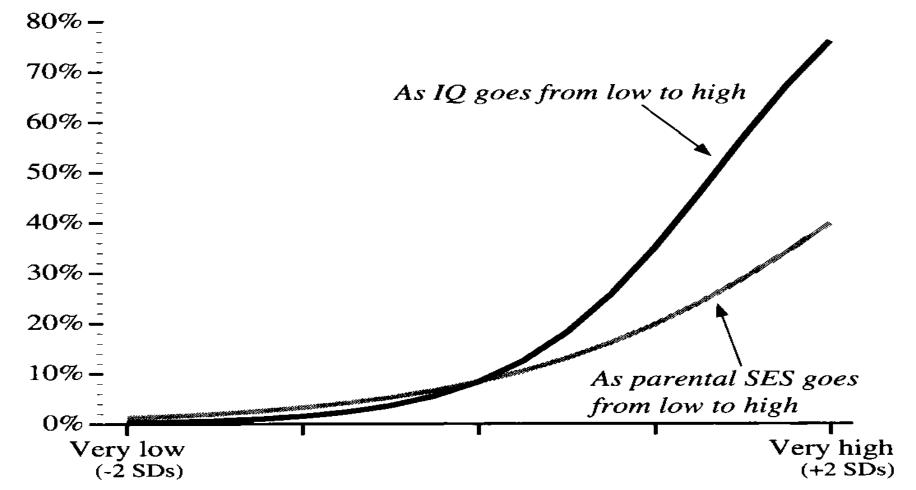
Non-Sequitur / Wiley Miller



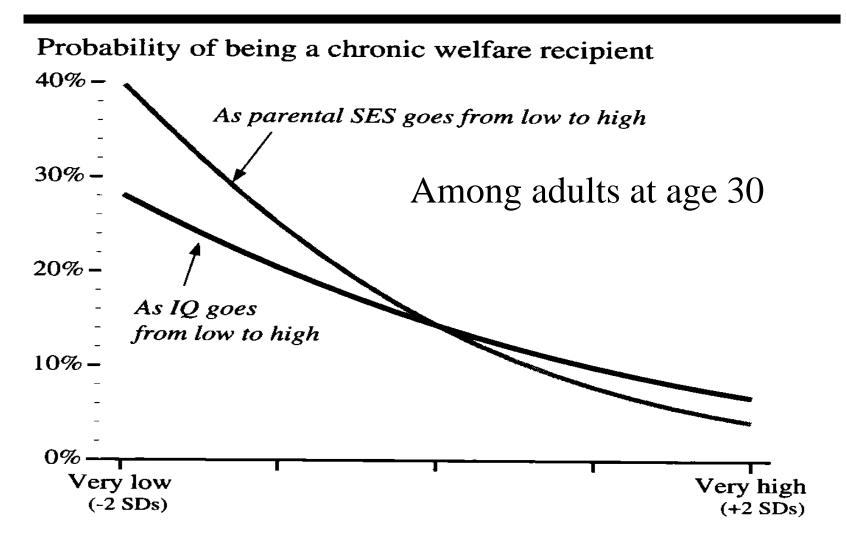
Bachelor's Degree: Both support; IQ Dominates.

2017 CTC

Probability of getting a bachelor's degree

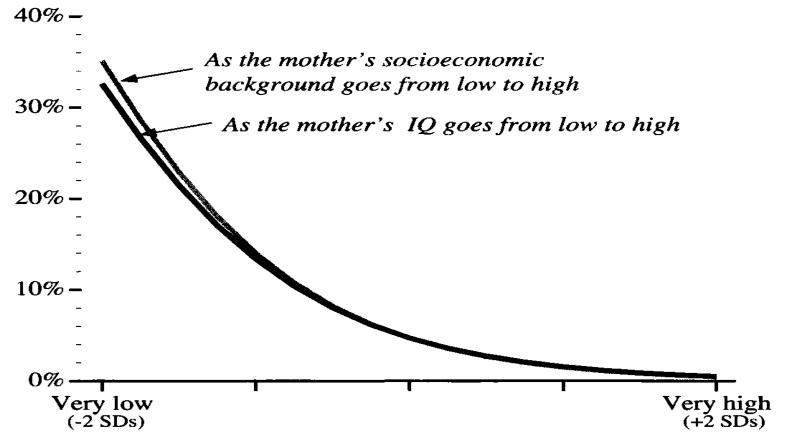


Chronic Welfare Recipient: Both Support; SES dominates.



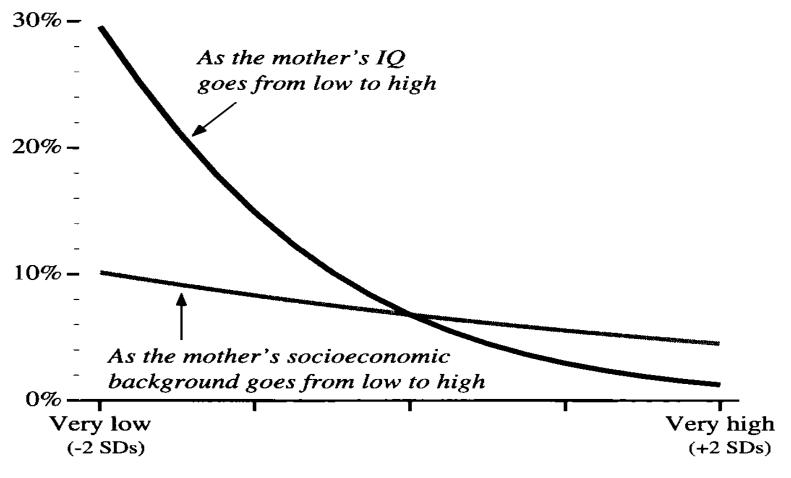
Child in poverty: Both Support. Max is 30%

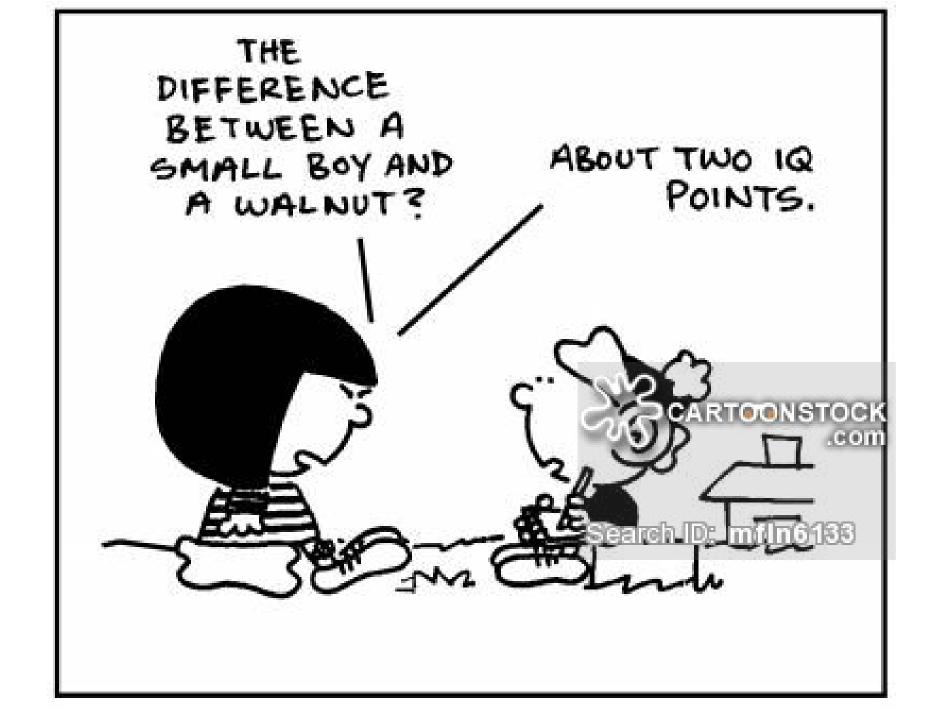
Probability that a child will live in poverty throughout the first three years of life



Is Lowest IQ Inherited?

Probability of having a child in the bottom decile of IQ

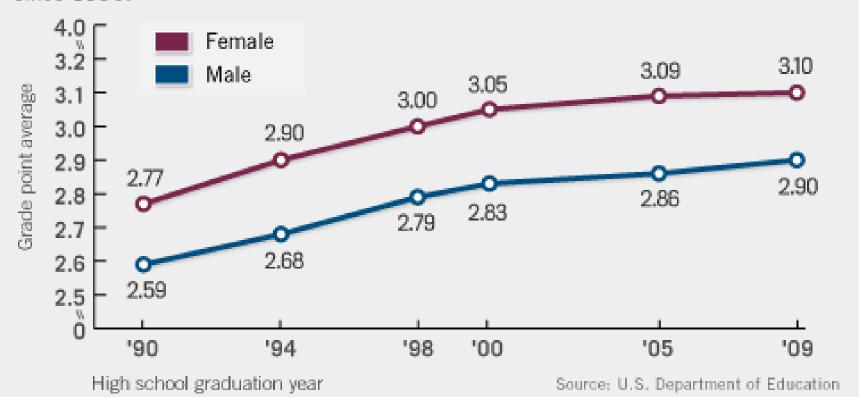




Girls are smarter than boys: Higher grades in school

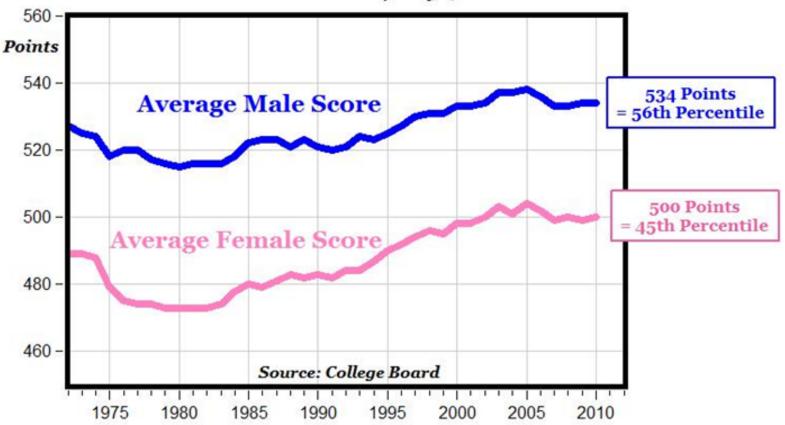
Raising the Grade

The mean grade point averages of male and female high school graduates since 1990:



Boys are smarter than girls: Higher Math SAT scores

SAT Mean Math Scores: Male vs. Female, 1972 - 2010



Two Explanations: Intelligence & Self Control

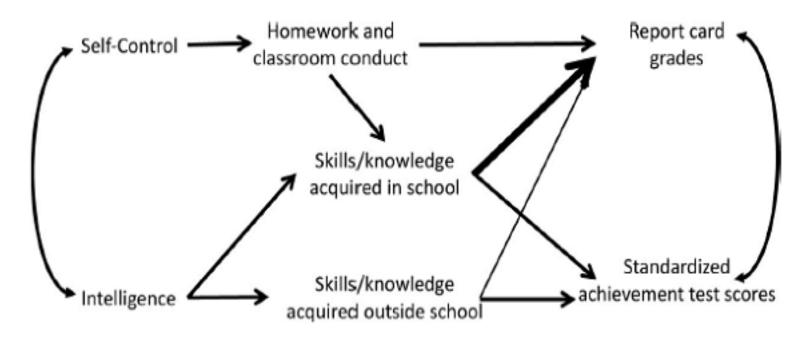
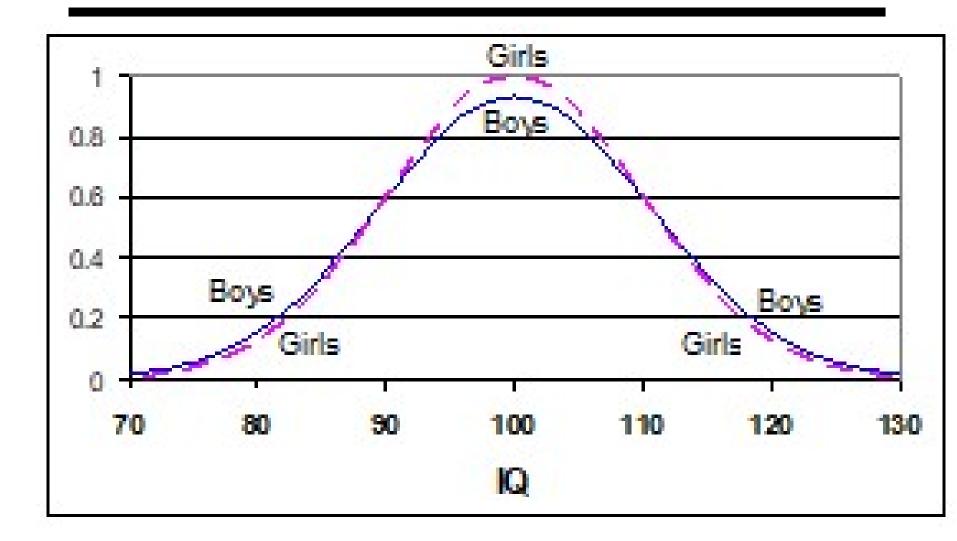
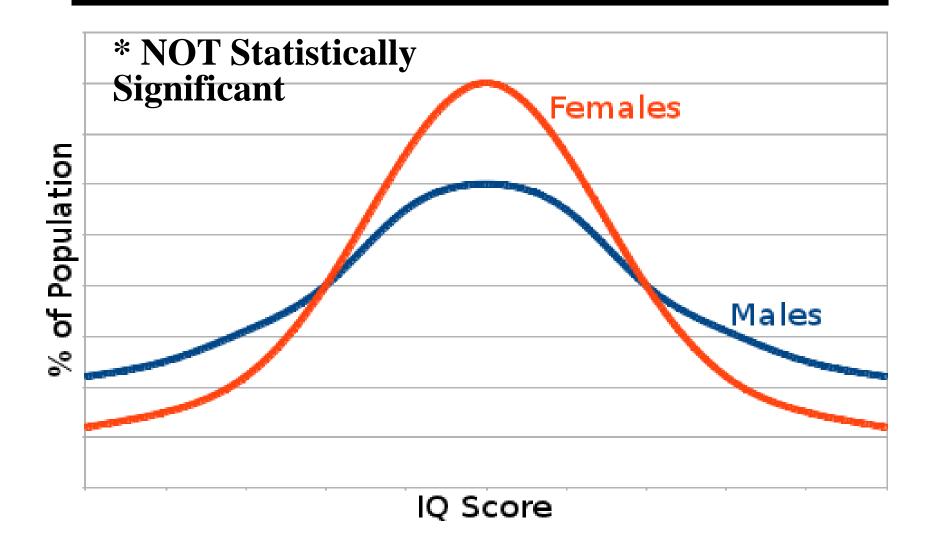


Figure 1. Theoretical model relating self-control and intelligence to competencies differentially related to report card grades and standardized achievement tests. The relative importance of competencies in determining report card grades and standardized achievement scores, respectively, is reflected by the width of corresponding arrows.

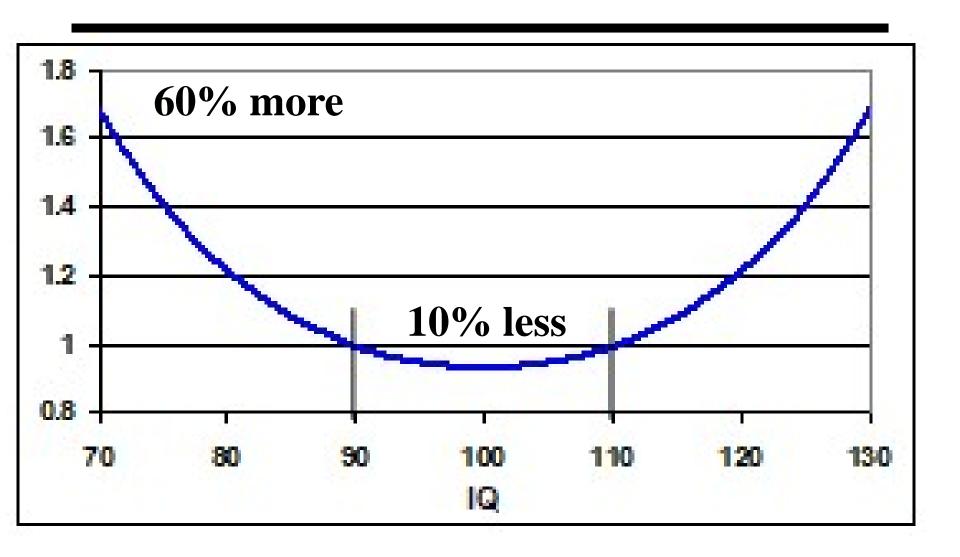
Scotland's Children's IQ: 80,000 at age 11 in 1932



M vs F: Mean, Std. Deviation. 100.64 vs 100.48*; 14.9 vs 14.1



Ratio of Boys to Girls



IQ and Crime

- There is an IQ gap of 8–10 points between criminals and noncriminals, even when statistically controlled for race and social class.
- IQ is not a very strong indicator of criminal behavior.
 - But, it does consistently predict

Guys dumber than gals? Prison: Men 3 times as likely

Why?

- 1. Society discriminates against men.
- 2. On average, men have lower IQ than women
- 3. Men have less self-control than women
- 4. Low-IQ guys less self-control than low-IQ gals.

Lack of self-control seems relevant to committing a crime

Guys dumber than gals? ADHD: Men 3 times as likely

Why?

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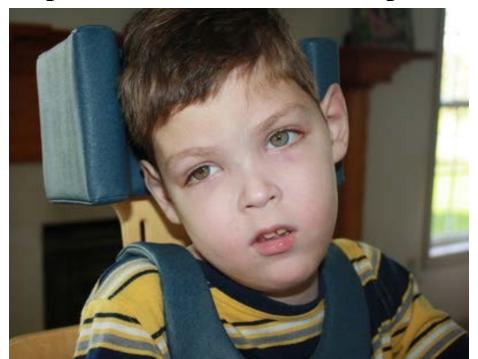
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Guys dumber than gals?Mental Retardation: 50% more guys

Mentally retarded (IQ<65): M-to-F is 3-to-2. 50% more prevalent among males than females https://mn.gov/mnddc/parallels2/pdf/80s/82/82-PMR-ARC.pdf

Mental retardation does not seem like a lack of self-control



Guys dumber than gals? Conclusion #1: NO!

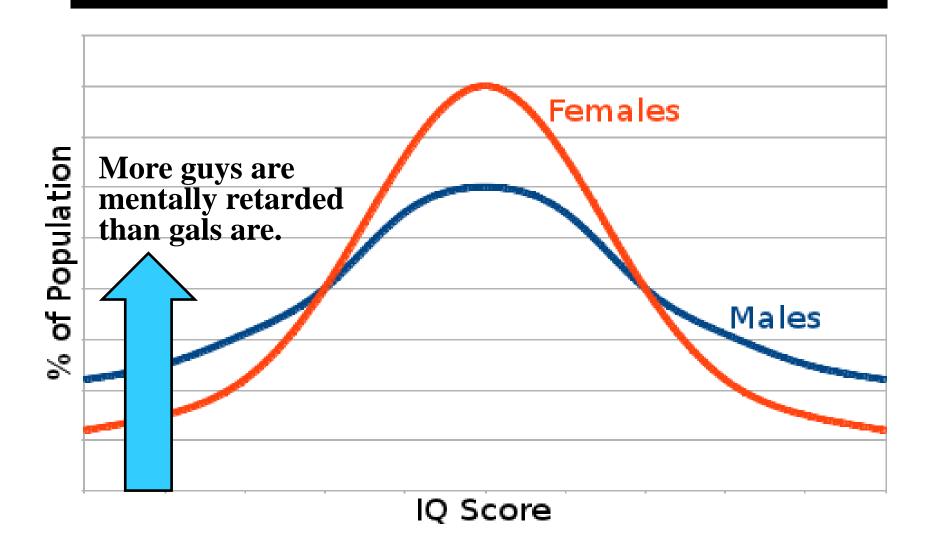
Guys 50% more likely to be mentally retarded than gals.

- 1. Society discriminates against boys. NO!
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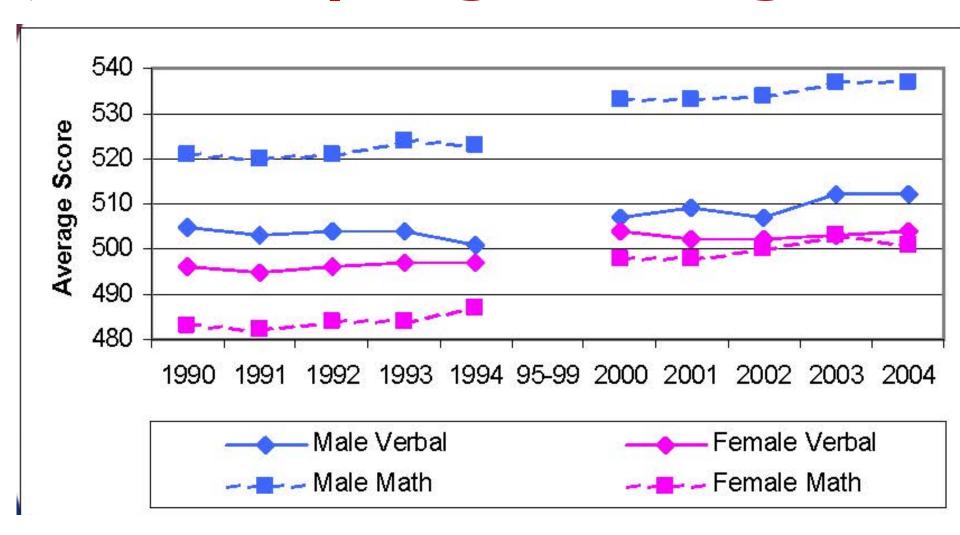
 Probably; This is not relevant to mental retardation.

More low-IQ guys than low IQ gals AND "SELECTION BIAS" Just looking at bottom.

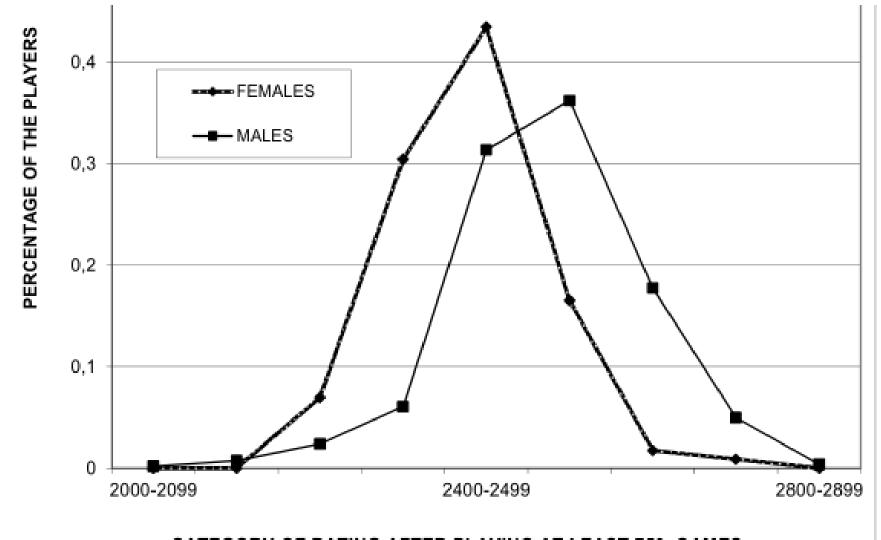
More males at the extremes: More guys mentally retarded



Guys smarter than gals? SATs: Guys higher than gals

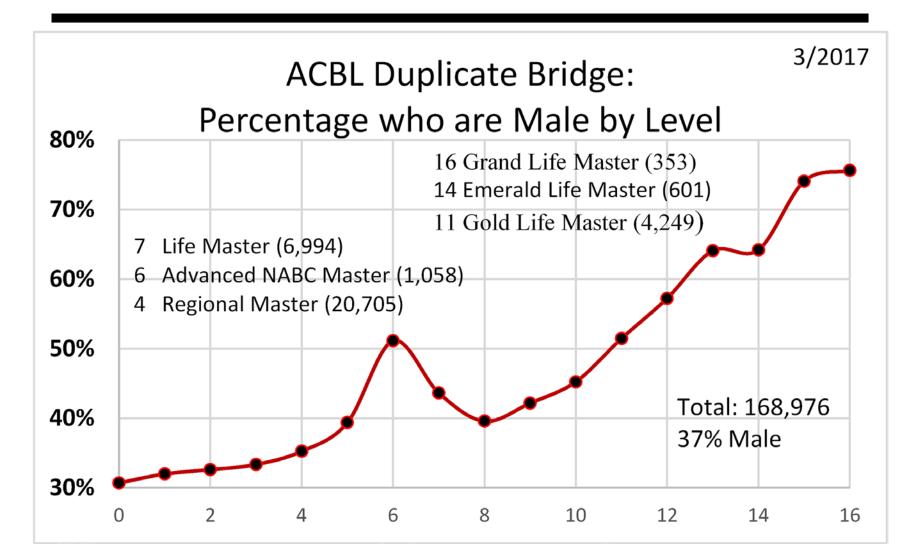


Guys smarter than Gals? Men: higher chess ratings

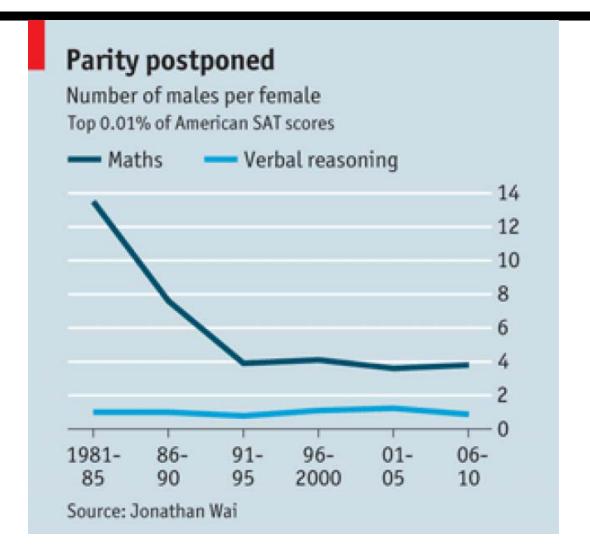


CATEGORY OF RATING AFTER PLAYING AT LEAST 750 GAMES

Guys smarter than Gals? Men: Higher bridge scores



Guys smarter than Gals? More Men in top Math SATs



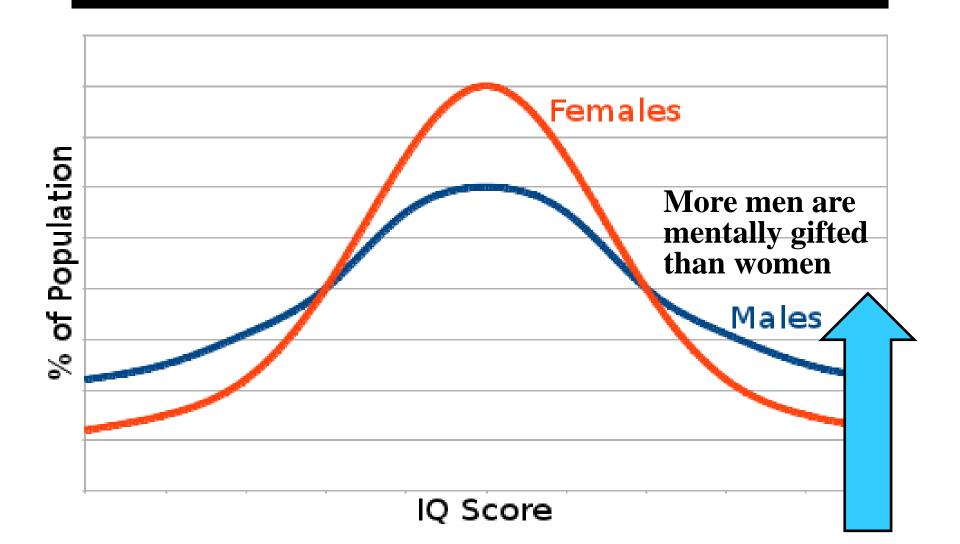
Guys smarter than Gals? Conclusion? NO!

So what explains more men than women in the following?

- Higher SAT scores (math and verbal)
 Men are more likely at top in chess and bridge
 Men more likely in high-IQ majors: Physics+Comp. Sci.
 Men 4 times as prevalent in top 0.01% of SAT Math
- 1. Men smarter than women on average? NO!
- 2. More men at the extremes? YES!

Selection Bias: Selecting just the top end

More males at the extremes: More gifted guys than gals



Conclusion #3 Differences due to Selection Bias

More men at IQ extremes + selection bias explain:

BOTTOM END:

Mentally retarded: 50% more male than female

TOP END:

Higher SAT scores (math and verbal)

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More men than women among low IQ? Yes! Mental retardation: "smoking gun" Gender vs. IQ

M vs F: Same IQ on average; More men at the IQ extremes

