

International Women's Day

#BeBoldForChange



WE TRE TIL WONDERWOMEN!





Women's Day – 28/02/1909 Socialist Party of America, NYC



Asch Building. Manhattan, NYC Triangle Shirtwaist Factory Fire, 25/03/1911 146 mortes, 123 mulheres e adolescentes



08/03/1917 - International Women's Day em Petrograd (Saint Petersburg), Russia Greve por "Bread and Peace" pelo fim da I Guerra Mundial, da falta de alimentos na Russia e do czarismo.

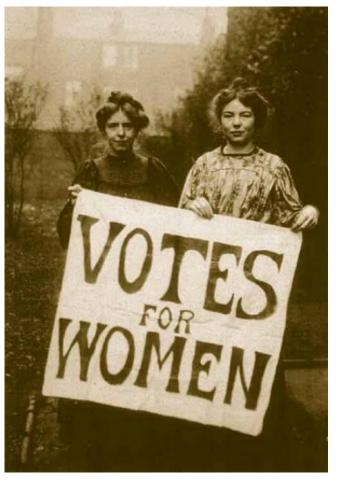
Início da Revolução Socialista de 1917

1975:



http://www.un.org/en/events/womensday/index.shtml

Women's rights:







How long ago???

Women's suffrage in Switzerland

Date	Canton		
1 February 1959	<u>Vaud</u>		
27 September 1959	<u>Neuchâtel</u>		
6 March 1960	Geneva		
26 June 1966	<u>Basel-Stadt</u>		
23 June 1968	<u>Basel-Landschaft</u>		
19 October 1969	<u>Ticino</u>		
12 April 1970	<u>Valais</u>		
25 October 1970	Lucerne		
15 November 1970	Zurich		
7 February 1971	Aargau, Fribourg, Schaffhausen and Zug		
2 May 1971	Glarus		
6 June 1971	<u>Solothurn</u>		
12 December 1971	Bern, Thurgau		
23 January 1972	St. Gallen		
30 January 1972	<u>Uri</u>		
5 March 1972	Schwyz and Graubünden		
30 April 1972	<u>Nidwalden</u>		
24 September 1972	<u>Obwalden</u>		
30 April 1989	Appenzell Ausserrhoden		
27 November 1990	Appenzell Innerrhoden (by decision of the federal court)		

https://en.wikipedia.org/wiki/Women's_suffrage_in_Switzerland

Women's movements...



Gender equality movement

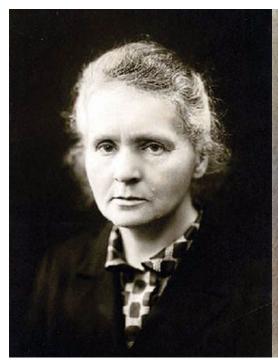


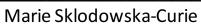


http://www.shesbeautifulwhenshesangry.com/



Women in (Hard) Sciences







Ada Lovelace

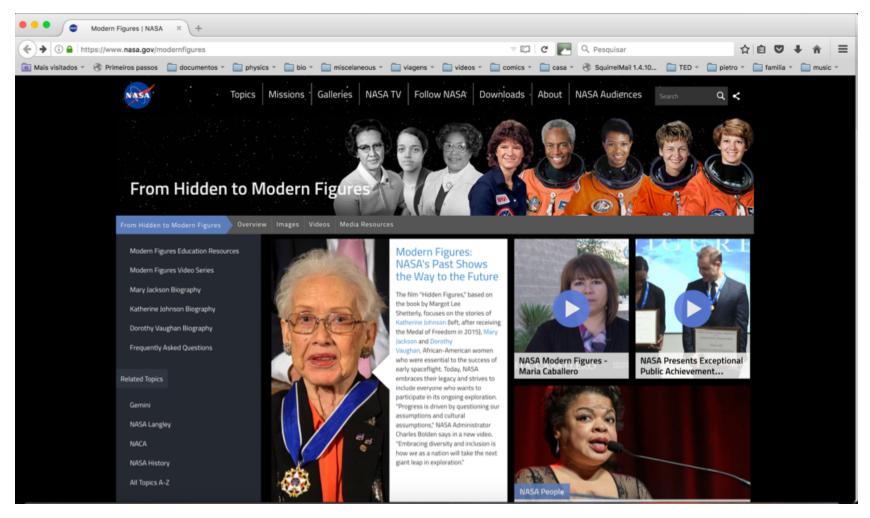


Emmy Noether



Lise Meitner



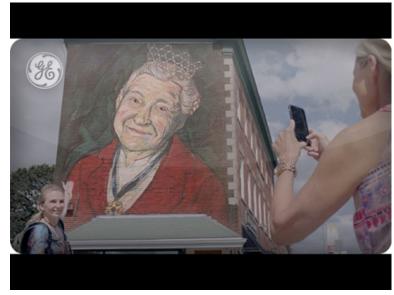


https://www.nasa.gov/modernfigures





Mildred Dresselhaus (November 11, 1930 – February 20, 2017), known as the "queen of carbon science", was the first female Institute Professor and professor emerita of physics and electrical engineering at MIT. She won numerous awards including the Presidential Medal of Freedom and the National Medal of Science.



What If Millie Dresselhaus, Female Scientist, Was Treated Like A Celebrity?

https://www.youtube.com/watch?v=sQ6_fOX7ITQ



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Topics in this Forum

- ▶ Where to find Laura Hoopes' Women in Science future thoughts?
- LAB GIRL, exciting new womanin-science biography
- Ruth Hubbard, RIP
- ▶ The Ball Is Ending
- ▶ New DNA Learning Game Coming Soon
- ▶ NIH Women in Science Tidbits
- ▶ Woman Put Man on Moon cartoon presentation
- Reviewing the 2015 Nobel Prizes in Chemistry and Physiology or Medicine
- ▶ Women Engineers: How to Retain Them

Next »

▶ Albert Lasker Basic Medical Research Award

« Prev

Forums

- Genetics Generation
- Women in Science
- « Prev Next »



Women in Science

*****AAUW nature **EDUCATION**

Co-curated by Dr. Laura Hoopes, Halstead-Bent professor of Biology at Pomona College, and the American Association of University Women (AAUW), Women in Science is a forum about issues of parity and the female experience in science. Alongside Dr. Hoopes' topics, the AAUW will also introduce topics during one week of every month. Please join in these discussions and share your experiences, perspectives, and opinions.

Moderated by Laura Hoopes

Chapter 1.

Women and Girls in Science.

Technology, Engineering,

and Mathematics











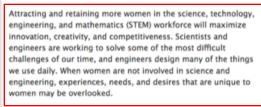


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Why Do We Need Women in STEM Fields?

Posted on: February 24, 2011 | Posted By: Christianne Corbett

This is a question that comes up pretty regularly. Here is one



For example, Unlocking the Clubhouse: Women in Computing discusses the fact that "some early voice-recognition systems were calibrated to typical male voices. As a result, women's voices were literally unheard. ... Similar cases are found in many other industries. For instance, a predominantly male group of engineers tailored the first generation of automotive airbags to adult male bodies, resulting in avoidable deaths for women and children" (Margolis & Fisher, 2002, pp. 2-3).

With a more diverse workforce, scientific and technological products, services, and solutions are likely to be better designed and more likely to represent all users, and the direction of

scientific inquiry will be guided by a broader array of experiences.

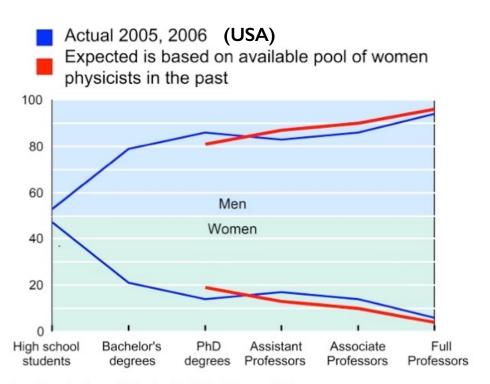
© 2010 AAUW

Why do you think it is important to have women in STEM fields?

Attracting and retaining more women in the science, technology, engineering, and mathematics (STEM) workforce will maximize innovation, creativity, and competitiveness. Scientists and engineers are working to solve some of the most difficult challenges of our time, and engineers design many of the things we use daily. When women are not involved in science and engineering, experiences, needs, and desires that are unique to women may be overlooked.

http://www.nature.com/scitable/forums/women-inscience/why-do-we-need-women-in-stem-18256390

The "scissors plot" summarizing these results reveals a relative scarcity of women physicists



Source: American Institute of Physics Statistical Research Center

This is a problem for Physics... and STEM!

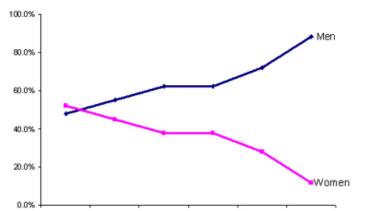


Figure 1. The Gender Scissors

Career Stage

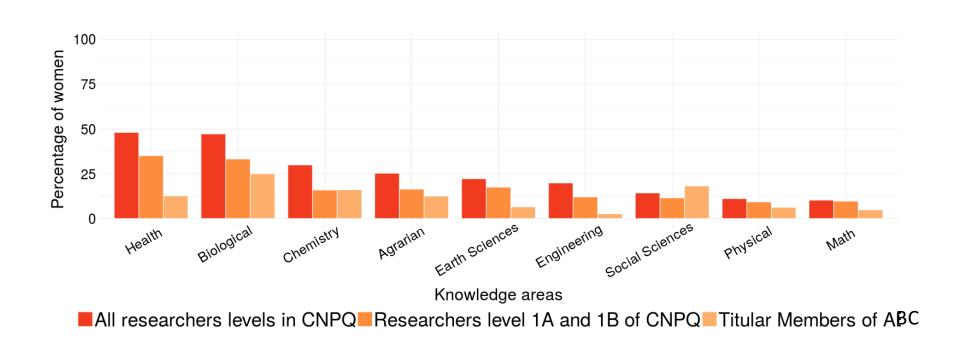
http://www.sciencemag.org/careers/2005/02/cutting-gender-scissors

Elizabeth H. Simmons

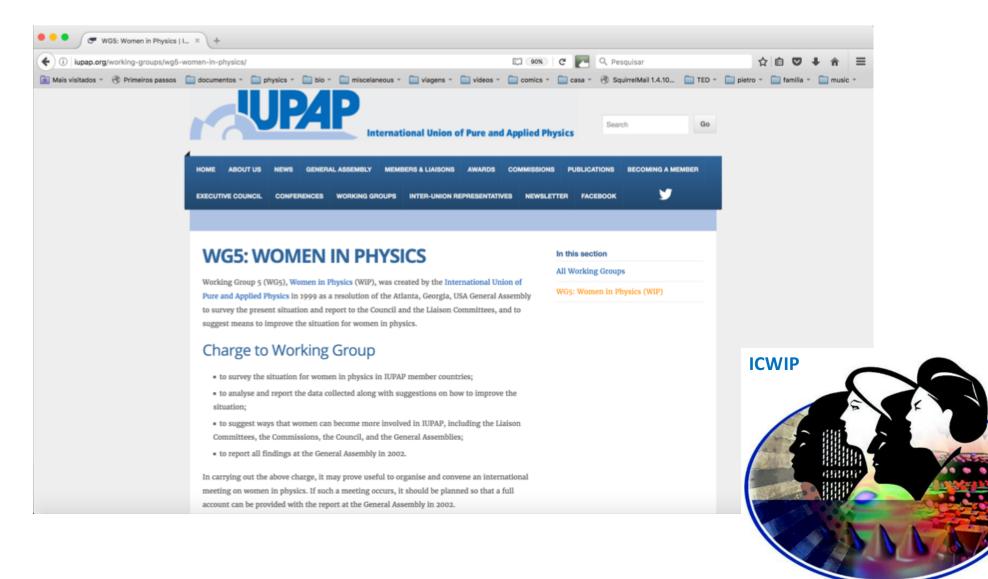
Distinguished Professor of Physics Michigan State University ICTP Workshop for Women in Physics October 12, 2015

Women - Brazil (2016):

Academia Brasileira de Ciências & Produtividade em Pesquisa CNPq

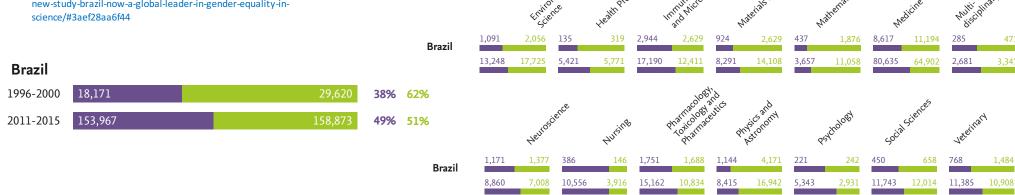


Marcia Barbosa, UFRGS



Surprising New Study: Brazil Now A Global Leader In Gender Equality In Science





Wata Benefit and

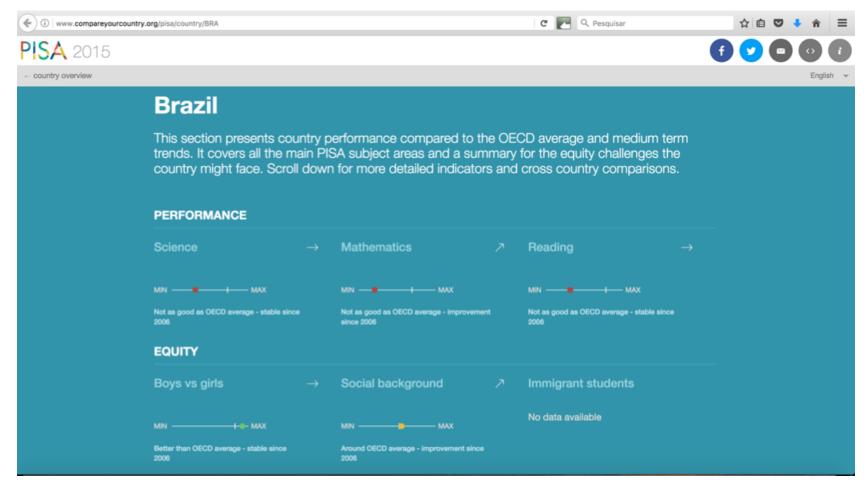
4,317

8,040

7,539

11,549

https://www.elsevier.com/__data/assets/pdf_file/0008/265661/ElsevierGenderneport_inal_for-web.pdf



PISA 2015 - BRAZIL:

Boys outperformed girls by 9 score points in 2006 and by 4 score points in 2015. While there was no significant improvement in performance among boys during this period, the mean score of girls is 13 points higher in 2015 than it was in 2006. The gender gap in science performance in Brazil is now similar to the OECD average gap.

What are the "culprits"?

Travel & After Hours

Aggressivity

Stereotypes

This Great Ad Reveals All the Ways We Hold Girls Back

WHAT WOMEN REALLY THINK JUNE 26 2014 11:06 AM

By Amanda Marcotte

XX factor



Slate



https://www.youtube.com/watch?v=XP3cyRRAfX0

#LikeAGirl



https://www.youtube.com/watch?v=XjJQBjWYDTs

#RedrawTheBalance

https://www.youtube.com/watch?v=kJP1zPOfq 0



ECONOMIA

GI



Inspiring The Future - Redraw The Balance

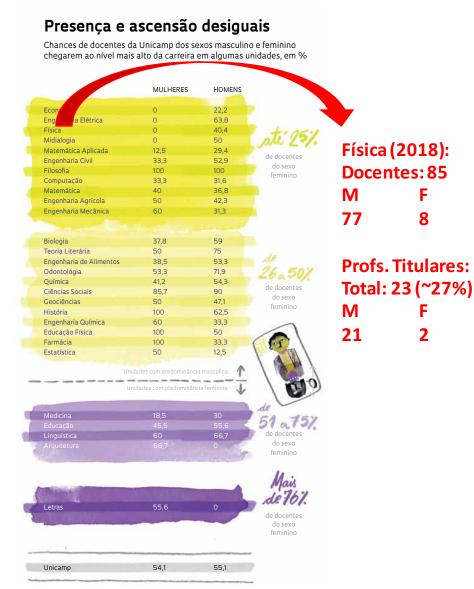
What are the "culprits"?

Lack of Role Models

As chances das mulheres na universidade

Estudo sugere que disciplinas com alta presença feminina não garantem às pesquisadoras vantagem para chegar ao topo da carreira

Pesquisa Fapesp 238 (dez/2015)





http://www.sciencemag.org/news/2017/01/young-girls-are-less-likely-believe-their-gender-brilliant-they-age

Science Science Advances Science Immunology Science Robotics Science Signaling Science Translational Medicine

SHARE



Young girls are less likely to believe their gender is brilliant as they age



By Emma Hiolski | Jan. 26, 2017, 2:00 PM





"A person in my office is really, really smart—they solve problems faster and better than anyone else." When 5-year-old girls hear this statement, they're as likely as boys are to assume the smart person is of their own gender. But by age 6 to 7, they're 20%—30% less likely to assume this brilliant individual is a woman, according to a study published today in *Science*. In another experiment, researchers found that the older girls were less interested than their male counterparts in games—one resembling a two-color version of Chinese checkers—that the team described as being designed for "really, really smart children." They remained equally interested in games for "children who try really, really hard," though. The researchers say these early ideas about gender and intelligence could steer young women away from high-profile careers associated with high intelligence, like neuroscience or engineering. One surprising find? Boys and girls both acknowledged that girls get better grades, indicating that children don't necessarily associate success in school with brilliance. The scientists hope to determine where else kids' perceptions of intelligence might originate. In the meantime, they suggest emphasizing perseverance, rather than smarts, when promoting activities for both girls and

Posted in: Social Sciences DOI: 10.1126/science.aal0663

boys.

SHARE REPORT



Gender stereotypes about intellectual ability emerge early and influence children's interests



Lin Bian^{1,2,*}, Sarah-Jane Leslie³, Andrei Cimpian^{1,2,*}
+ See all authors and affiliations



Science 27 Jan 2017: Vol. 355, Issue 6323, pp. 389-391 DOI: 10.1126/science.aah6524



Article

Figures & Data

Info & Metrics

eLetters

🔁 PDF

Abstract

Common stereotypes associate high-level intellectual ability (brilliance, genius, etc.) with men more than women. These stereotypes discourage women's pursuit of many prestigious careers; that is, women are underrepresented in fields whose members cherish brilliance (such as physics and philosophy). Here we show that these stereotypes are endorsed by, and influence the interests of, children as young as 6. Specifically, 6-year-old girls are less likely than boys to believe that members of their gender are "really, really smart." Also at age 6, girls begin to avoid activities said to be for children who are "really, really smart." These findings suggest that gendered notions of brilliance are acquired early and have an immediate effect on children's interests.

So...

Women are under represented in Exact Sciences

It is NOT a question of time!

What to do?

Work Together
Network
Identify Barriers -> CHANGE!!



Representation matters!!!!

I took my girlfriend to see it. She knew nothing about wonder woman. In the opening training scene she leaned over and whispered, "Those are all women?" After the movie, she had to take a moment in the car. She said, "so that's what representation feels like. I had no idea that kind of role model was missing from my life." Then we cried. Thank you, Wonder Woman.

Yesterday at 1:39 PM · Edited · Like · Reply · ● 186

Thank you, Wonder Woman



'Black Panther' Brings Hope, Hype and Pride

By SALAMISHAH TILLET FEB. 9, 2018



'Black Panther' is a huge victory for representation in film

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+

Chadwick Boseman in a scene from "Black Panther." Marvel Studios, via Associated Press

https://www.nytimes.com/2018/02/09/movies/black-panther-african-americanfans.html



IMAGE: MARVEL, MASHABLE COMPOSITE





"This is what white people get to feel like ALL THE TIME?!!!!" #AllTheTime

Can somebody get this video to Ryan Coogler, @chadwickboseman @michaelb4jordan @Lupita_Nyongo @ImAngelaBassett @DanaiGurira and this dope ass cast & team so we can say thank you personally?

Forreal tho

2:13 AM - Dec 19, 2017

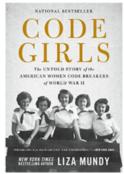
https://mashable.com/2018/02/21/black-panther-representation/#6DMfRMjREaq2

Why We Need to Start Building Monuments to Groundbreaking Women

The brilliant female codebreakers of WWII were forgotten to history, but would that have happened had they been recognized with the same fervor as men?



By **Liza Mundy** SMITHSONIAN.COM MARCH 1, 2018



The representation of women in advertising hasn't improved in a decade

A new report released at the Cannes Lions festival highlights how men get four times as much screen time as women and are more likely to be shown as leaders.

By Rachel Gee 21 Jun 2017 2:45 pm



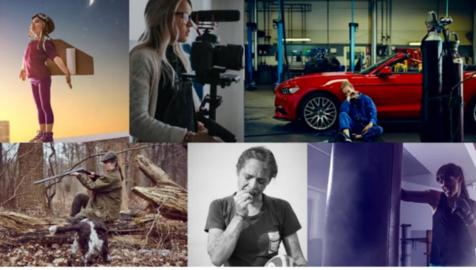
https://www.marketingweek.com/2017/06/21/representation-women-ads/

https://www.smithsonianmag.com/history/why-we-need-start-building-monuments-groundbreaking-women-180968306/



https://www.linkedin.com/pulse/how-one-brand-changing-women-portrayed-advertising-wendy-poischbeg/







HeForShe

UN Women Solidarity Movement for Gender Equality







TIME'S DESCRIPTION OF THE PROPERTY OF THE PROP

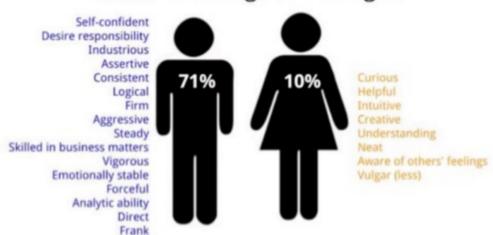
The clock has run out on sexual assault, harassment and inequality in the workplace. It's time to do something about it.

Implicit, unconscious (= cognitive) bias....



Words attributed to Men and Women

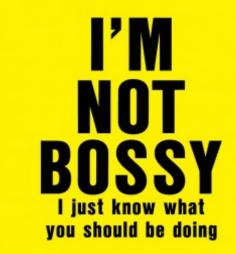
What makes a good manager?





Dr. Bian Welle. Director of People Analytics, Google: www.gv.com/lib/unconscious-bias-at-work





Implicit, unconscious (= cognitive) bias....

Words attributed to Men and Women

What makes a good manager?







Dr. Bian Welle. Director of www.gv.com/lib/uncor

© Banducci Consulti



Implicit, unconscious (= cognitive) bias....

WELCOME TO THE WALL OF FAILURES

What you are looking at are the hundreds of failures of Harvard students and faculty. At a university that is an international beacon of success, it is really easy to fall into the trap of only focusing on our successes and the successes of others and never accepting or acknowledging our failures. What kind of environment does this create in a community whose hallmark is an overemphasis on some elusive notion of "success"? Do we hold ourselves back from doing things we think we might inevitably fail at? Do we stop our own growth because we fear being anything other than a "success"?

As you read the failures of what many would consider to be the most "successful" community in the country, let them awaken a mindfulness within yourself to recognize that we, as human beings, will inevitably experience and witness failure and that our value as humans cannot be quantified by a resume of our successes. Allow yourself to reflect on your own failures. And as you become more mindful of your own failures and the failures of others, together we can start to break down the fears that stop us from pursuing the unknown, the risky, the challenging, and the potentially rewarding.

Never forget that you are HERE! Your successes AND your failures have gotten you to where you are now. Embrace them.

Gabby Sims, Sarah Grammar, Eliza Mantz, and Reylon Yount



fail to overcome fear of failure by challenging myself.	I failed both math 1b midterms	I gave up on myself	I dropped out of Harvard.	I have three B minuses on na report card.	concentration at least 3 th
i did no work over thanksgiving break and now i'm scrambling to finish 30					able to choose one makes very difficult to go on with everyday life.
pages of writing for my concentration tutorial	I was not chosen as a Rhodes scholar	I scored 112 in a round of golf after being chosen for the national golf team (for you non-golfers, that's really, really horrendous).	I didn't get the lead in my senior year high school musical.	I let my extracurriculars get in the way of maintaining my friendships.	I dida't get into an HMC abroad conference.
	I didn't get into Harvard the first time.				
I fail to align my actions with my beliefs.		I lost a spelling bee on the word "volt."	I barely passed/got the lowest grade in my class on a psych midterm I studied pretty hard for	Two years ago, I wrote a play about them as a way to dead with any feelings. I produced it and it was 2 hours longer than it was supposed to he, When the lights came up, it was only my most and any heat frends left to the auditores. I have power	I haven't gotten a job yet.
I start dating people I don't actually want to date.		I relapsed.	I didn't make the cut for Expressions.	been able to write a play since then.	
	Felt like I failed others as a captain		I had an interview for a	I got cut from everything I tried to join freshman year.	I've never made a travel team,
I've failed to go to the gym regularly the last few months.	I did not get one of the first two rounds of PBK.	I didn't swim best times my last season of college swimming.	Rhodes Scholarship and didn't get it.		My body isn't what i want it to be.
I got a C+ in math 21a	When my if in gov20 only wrote the comment "underwhelming" and gave me a C on my first ever assignment at this school	I failed one of my PS 11 midterms, and the average was probably a B+	We didn't qualify for nationals my freshman year because I didn't perform.	even trying because I'm th	comped the Advocate three mes and never made it to the tal round before getting cut.
		I failed at keeping my GPA above a 3.5 as a pre-med student	I can recognize the maltreatment and disenfranchisement of others, but I rarely DO anything despite my privilege.		
	是一位				

Implicit, unconscious (= cognitive) bias....



Share this idea











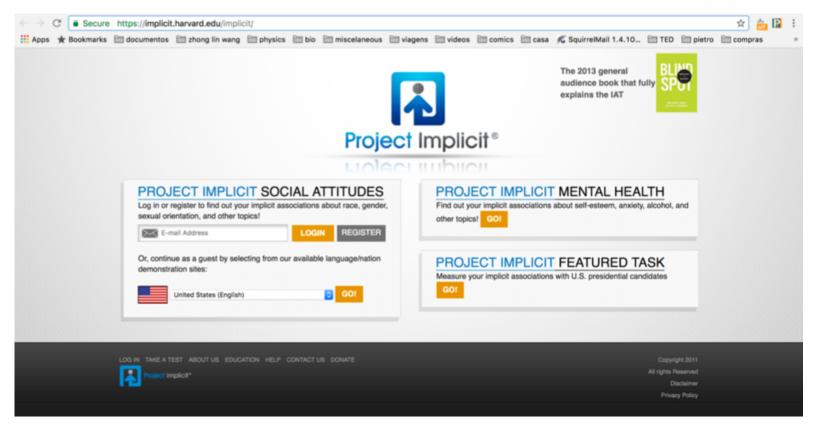


39,618,158 Total (2017)

March, 2018: 46,006,896 views

Implicit, unconscious (= cognitive) bias....

https://www.projectimplicit.net/index.html



About Us

Project Implicit is a non-profit organization and international collaboration between researchers who are interested in <u>implicit social cognition</u> - <u>thoughts and feelings outside of conscious awareness and control</u>. The goal of the organization is to educate the public about hidden biases and to provide a "virtual laboratory" for collecting data on the Internet.