

Tidy Tuesday March 5

Women in the Workforce

Github link: <https://github.com/rfordatascience/tidytuesday/tree/master/data/2019/2019-03-05>

There are historical data about women's earnings and employment status, as well as detailed information about specific occupation and earnings from 2013-2016.

Three datasets to look at:

[jobs_gender.csv](#)

variable	class	description
year	integer	Year
occupation	character	Specific job/career
major_category	character	Broad category of occupation
minor_category	character	Fine category of occupation
total_workers	double	Total estimated full-time workers > 16 years old
workers_male	double	Estimated MALE full-time workers > 16 years old
workers_female	double	Estimated FEMALE full-time workers > 16 years old
percent_female	double	The percent of females for specific occupation
total_earnings	double	Total estimated median earnings for full-time workers > 16 years old
total_earnings_male	double	Estimated MALE median earnings for full-time workers > 16 years old
total_earnings_female	double	Estimated FEMALE median earnings for full-time workers > 16 years old
wage_percent_of_male	double	Female wages as percent of male wages - NA for occupations with small sample size

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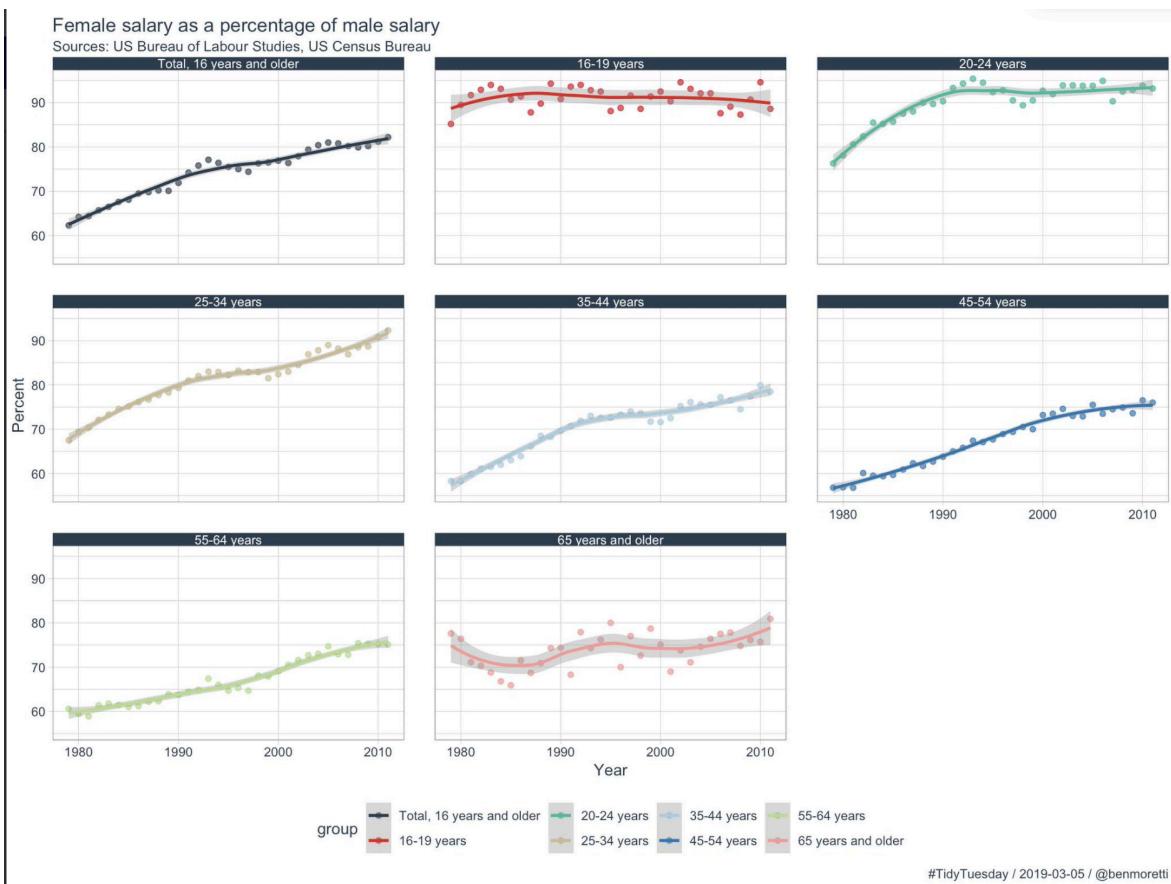
[employed_gender.csv](#)

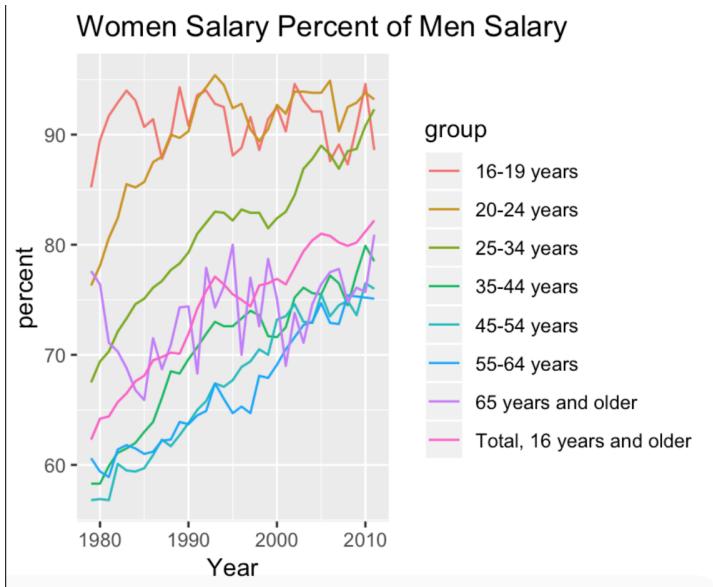
variable	class	description
year	double	Year
total_full_time	double	Percent of total employed people usually working full time
total_part_time	double	Percent of total employed people usually working part time
full_time_female	double	Percent of employed women usually working full time
part_time_female	double	Percent of employed women usually working part time
full_time_male	double	Percent of employed men usually working full time
part_time_male	double	Percent of employed men usually working part time

[earnings_female.csv](#)

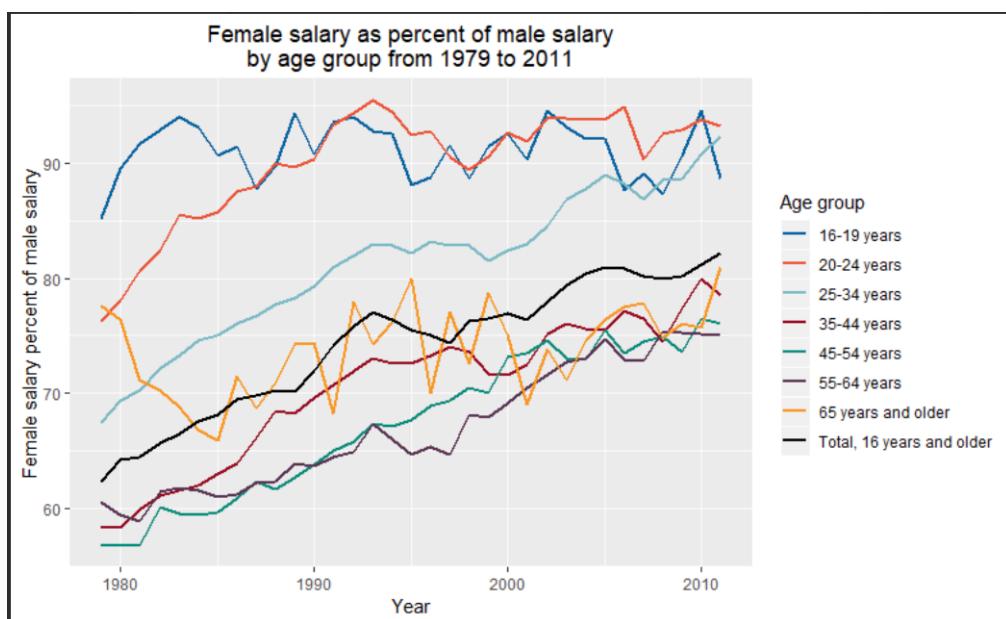
variable	class	description
Year	integer	Year
group	character	Age group
percent	double	Female salary percent of male salary

Female salary as a percent of male salary by age group

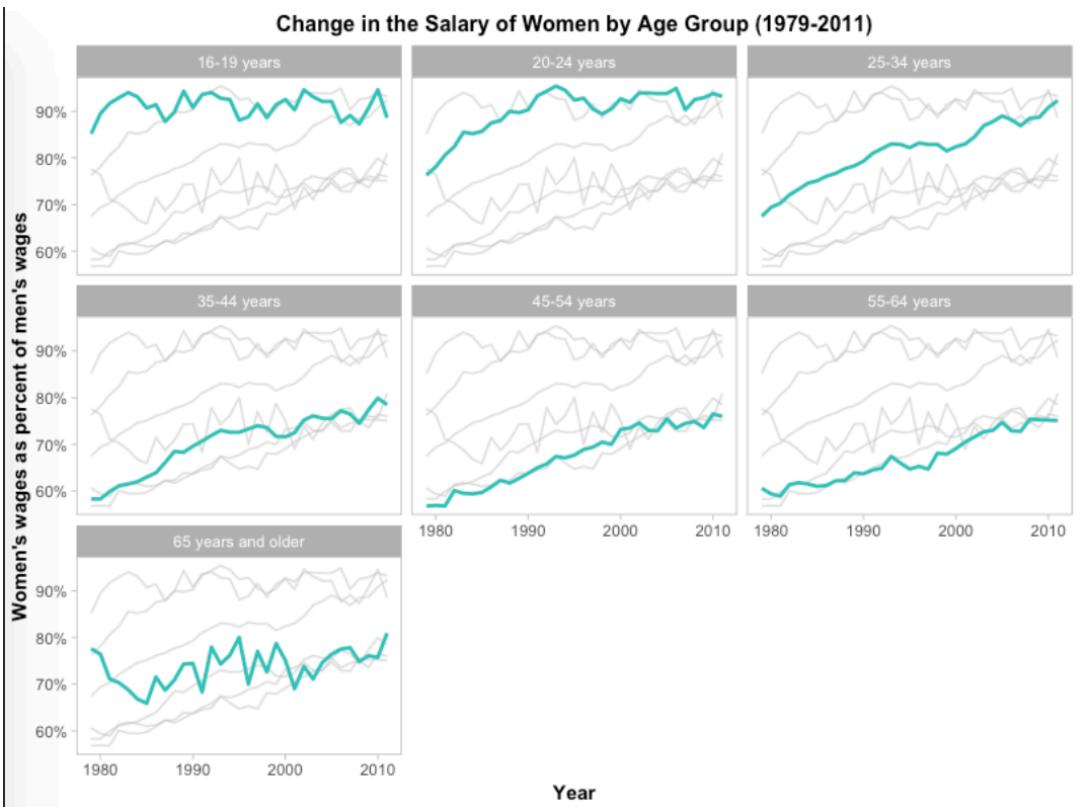




@KendallaSmith_



@rborashko



@lena2nguyen

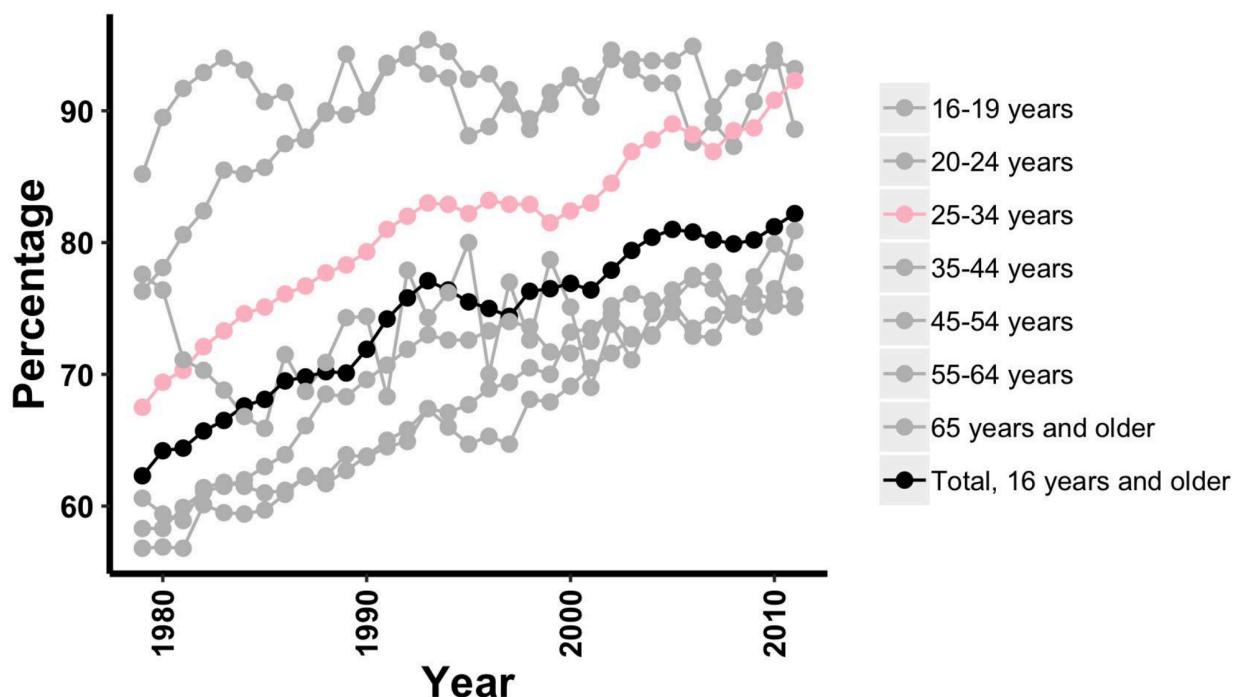
Growth in Women's Earnings as Percent of Men's Earnings
By Age Group, Indexed to 100 in 1979



@DaveBloom11

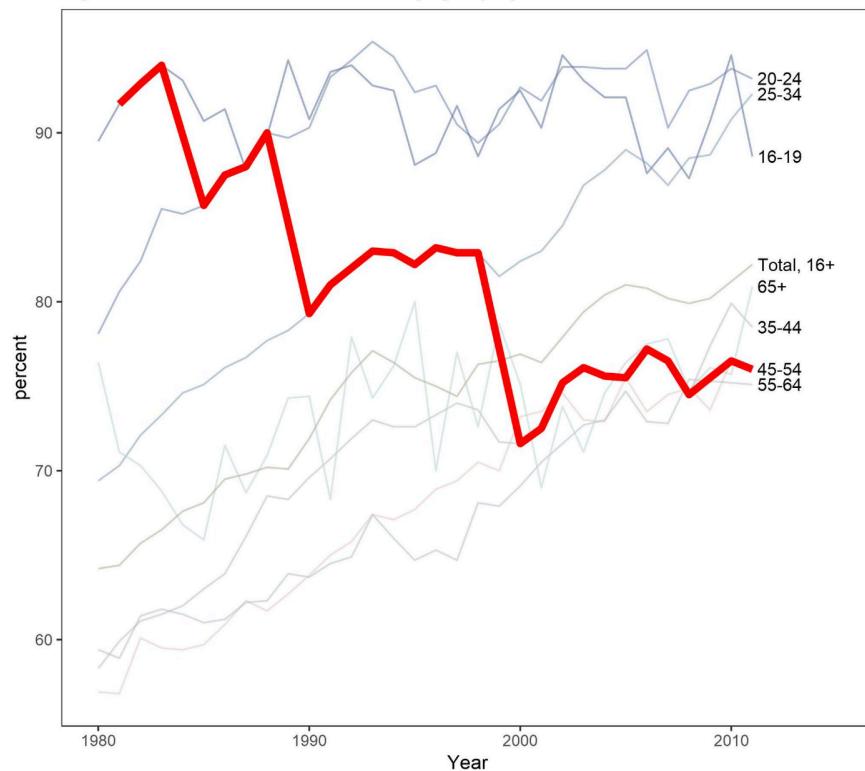
TidyTuesday: Women in workplace

Female salary percent of male salary



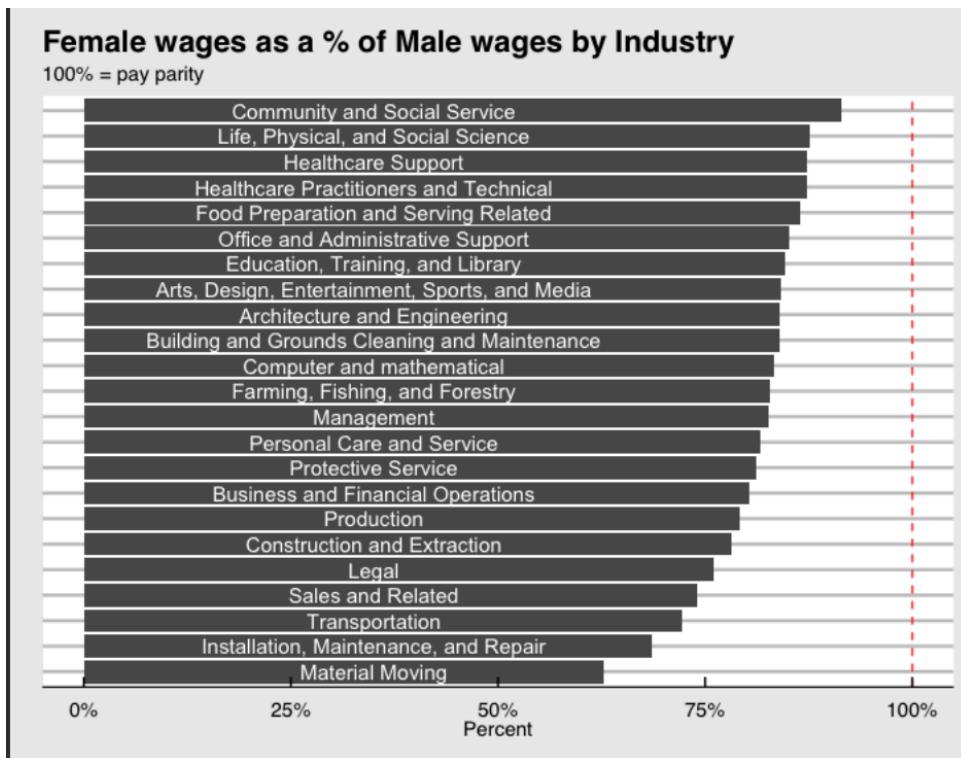
Source: Bureau of Labor, Plot by @sil_aarts

While each age group has trended toward parity over time
my cohort has seen a decrease in pay equity

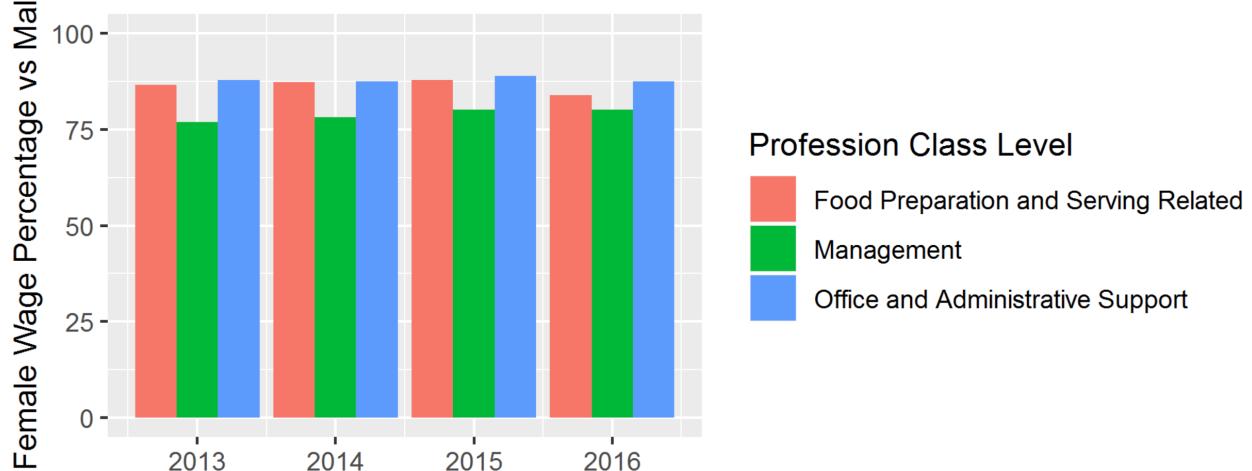


Data: Bureau of Labor Statistics
Viz: @WireMonkey Alyssa Goldberg

Female salary compared to male salary by sector



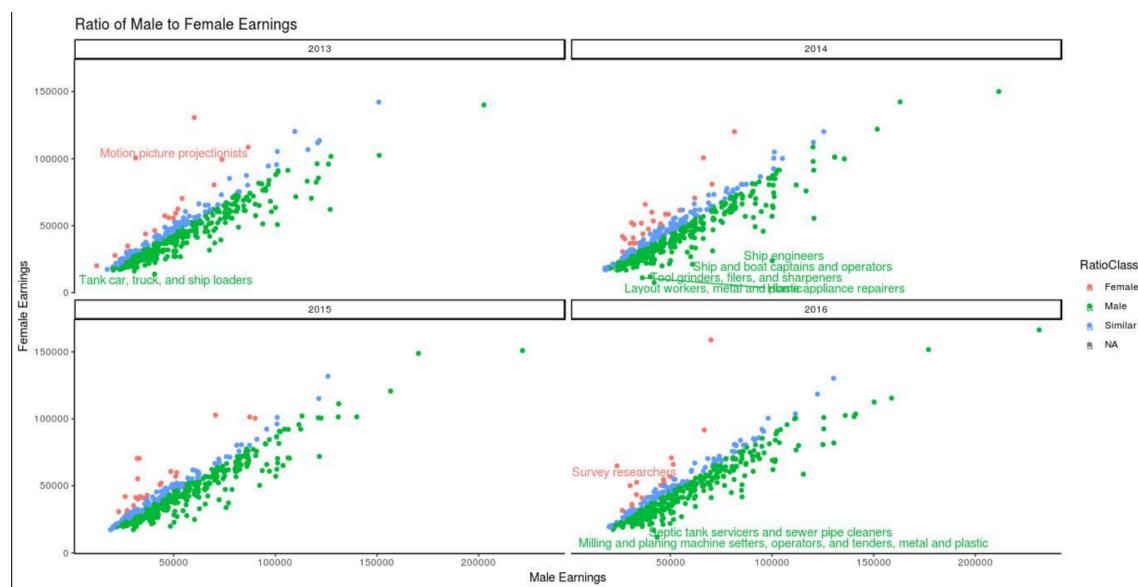
Tidy Tuesday Week 10: Women in the Workplace



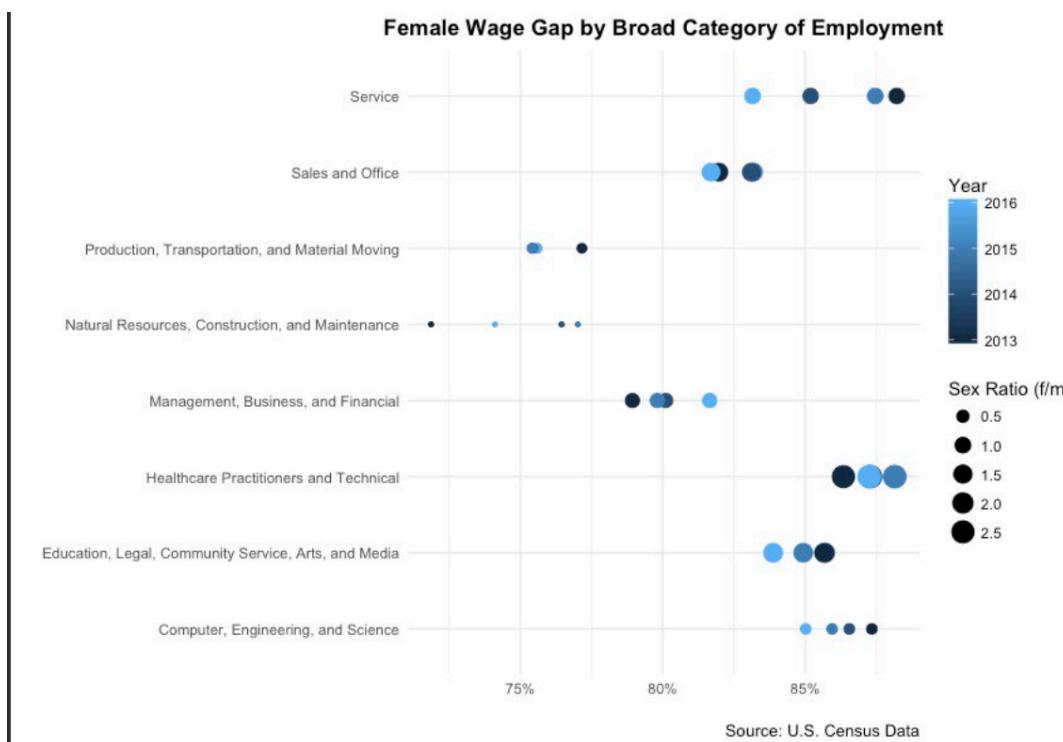
Source: Census Bureau

<https://github.com/JerrickTram/TidyTuesday/blob/master/2019%20Week%2010%20Women%20in%20the%20Workplace/Wage%20Gap.R>

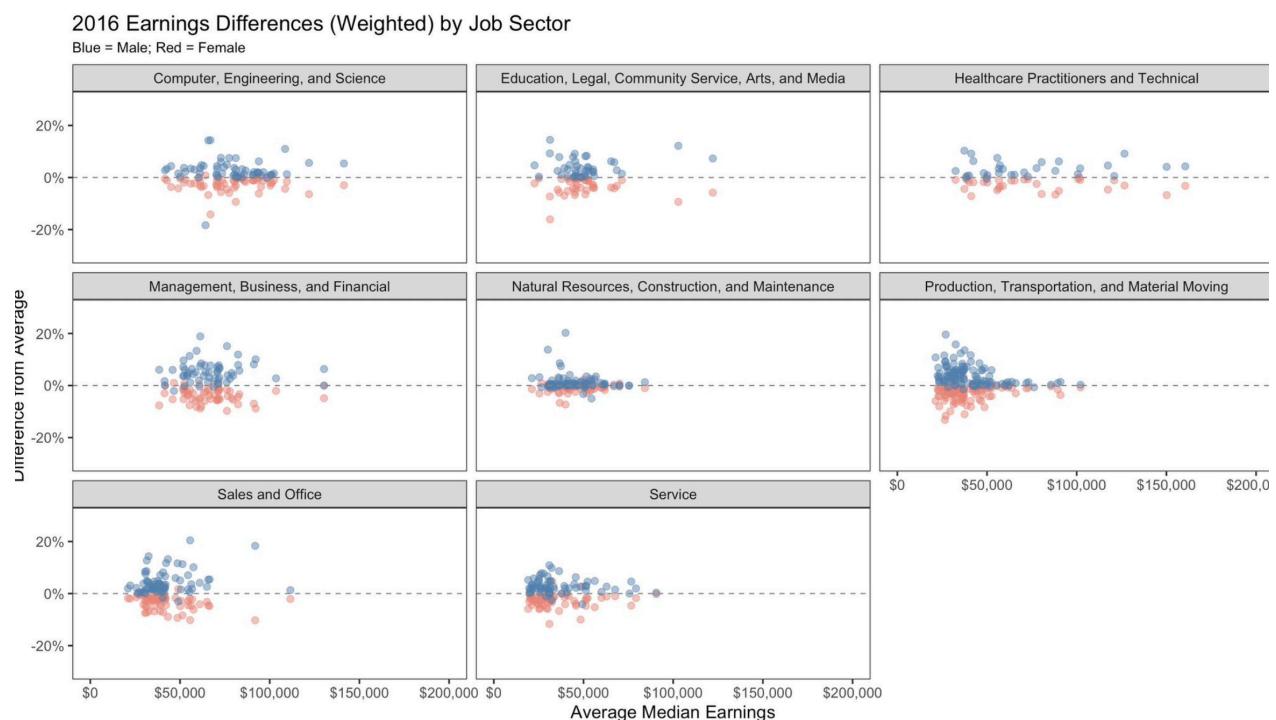
@JerrickTram

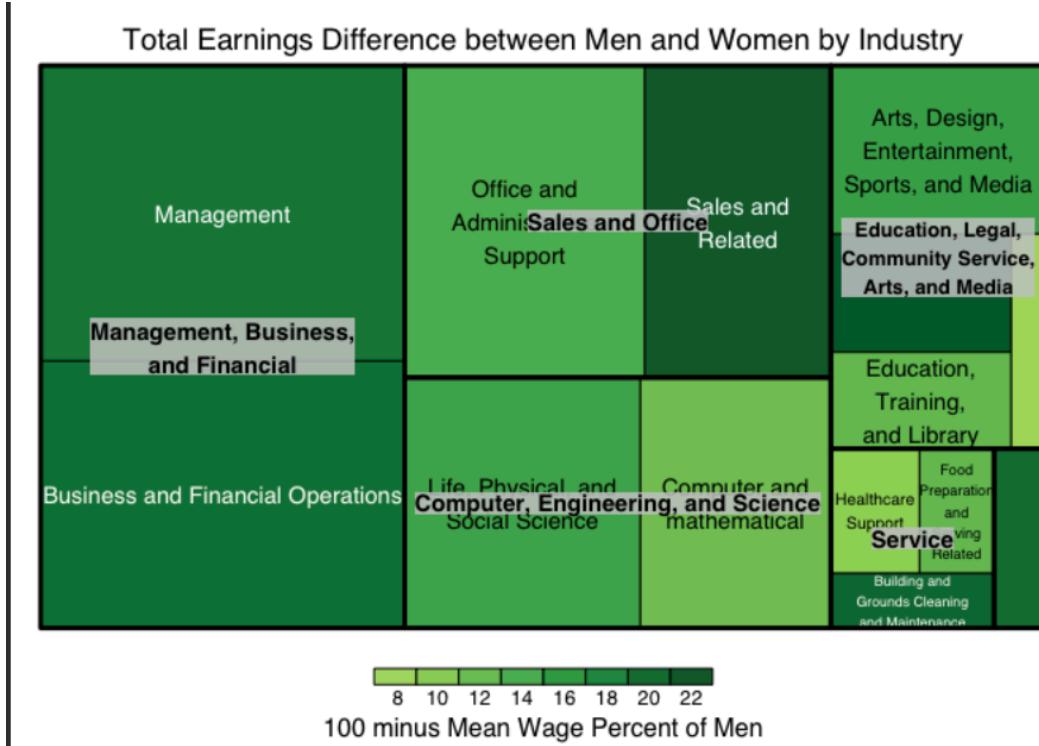


@frizzyroselle



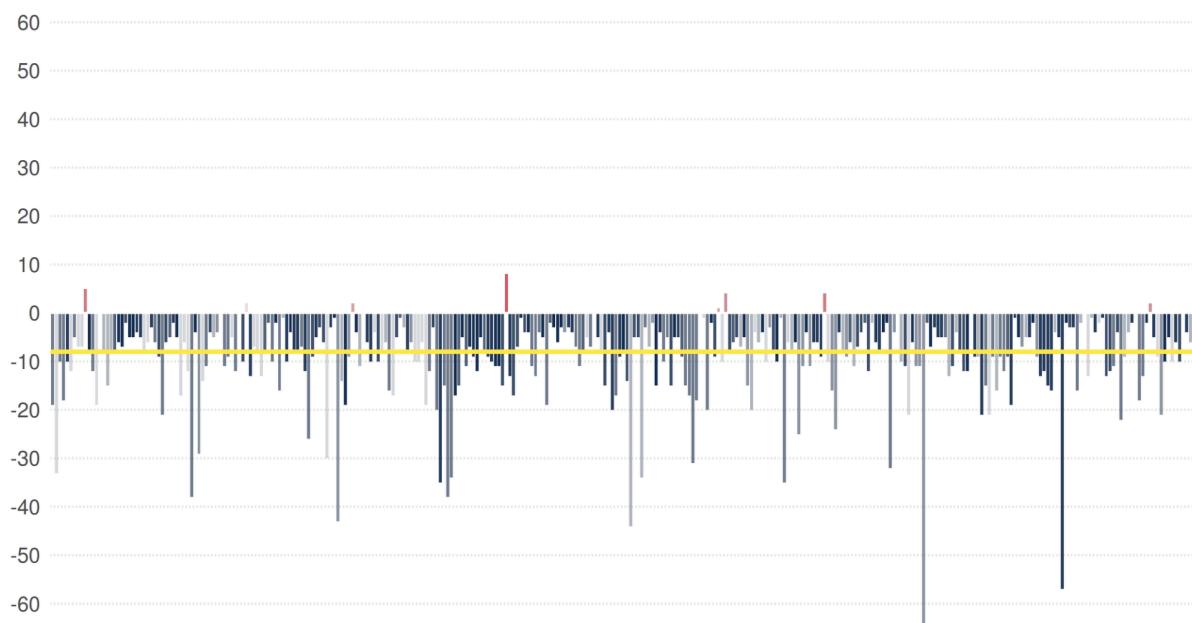
@jon_cole





@kevin_m_kent

Do Women Earn Less than Men? Median Pay Gap in 000s Between Men and Women in US (2016)

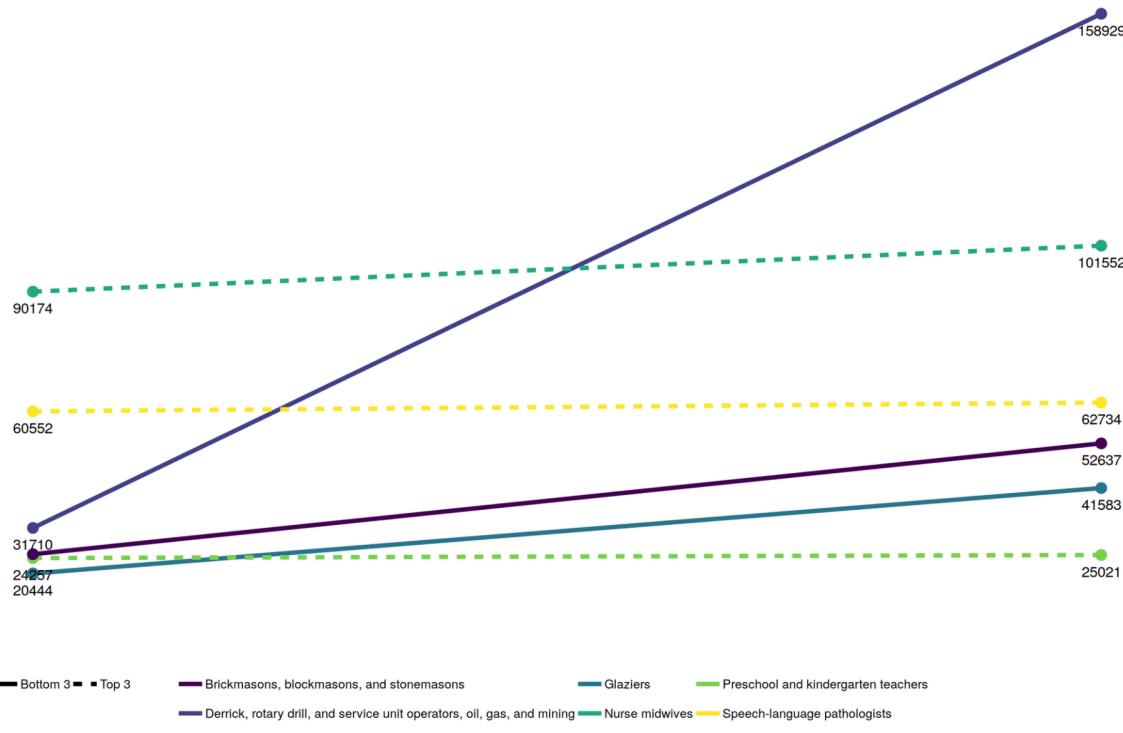


Major Category Computer, Engineering, and Science Healthcare Practitioners and Technical Natural Resources, Construction, and Maintenance Sales and Office Avg. Median Gap
Education, Legal, Community Service, Arts, and Media Management, Business, and Financial Manufacturing, Transportation, and Material Moving Service

@RSumaiya

Are Women's Earnings Increasing Over Time?

Change in Women's Median Pay between 2013 and 2016 in the US



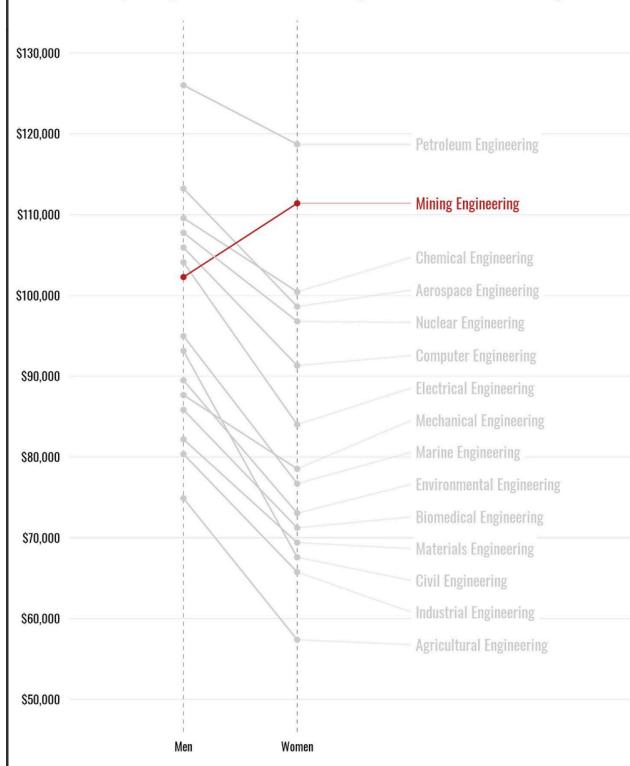
Notes: Top 3 occupations with most women in 2016 and bottom 3 occupations with least women in 2016 only.

@RSumaiya

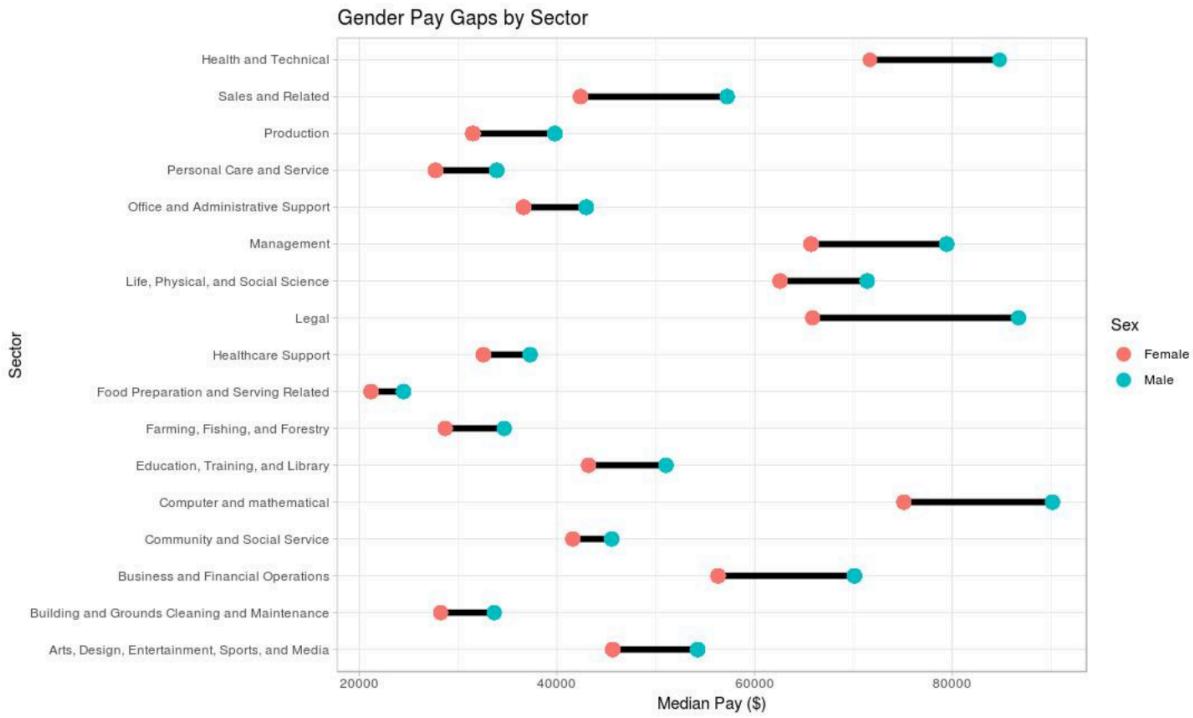
The Unnecessary and Unethical Pay Disparity in Engineering.

A slopegraph presenting the average total earnings from 2014-2016 for men and women across engineering disciplines. Mining Engineering is the only discipline with women earning more than men on average.

beautiful and effective interaction plot

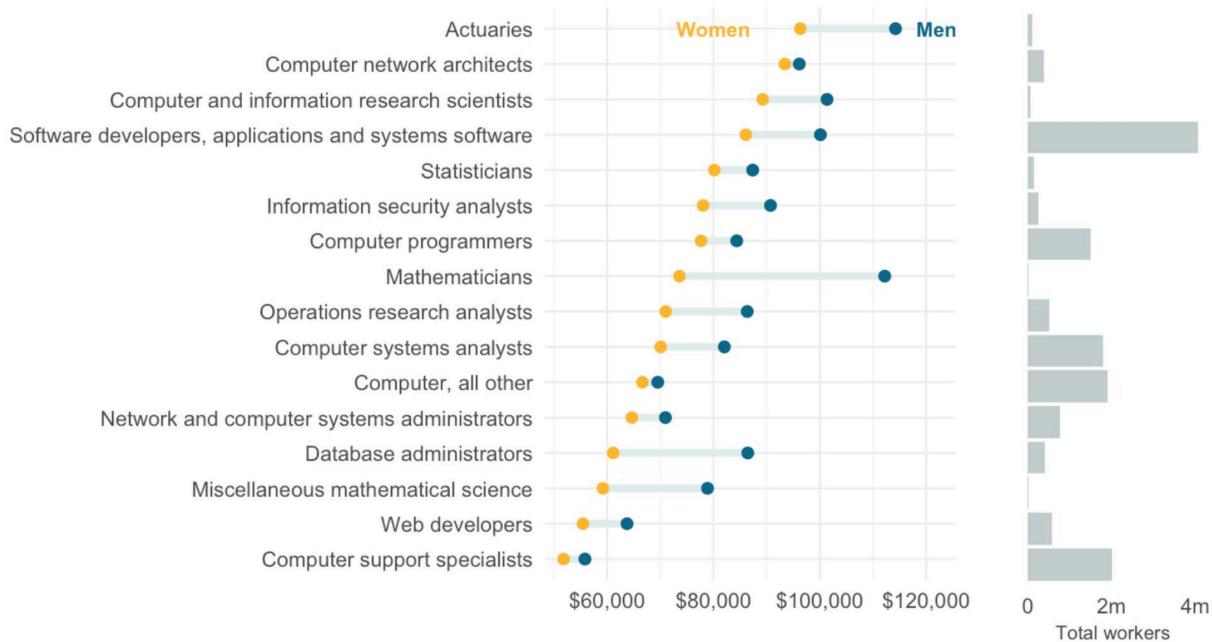


Data: Census Bureau | Graphic: @jakekaupp

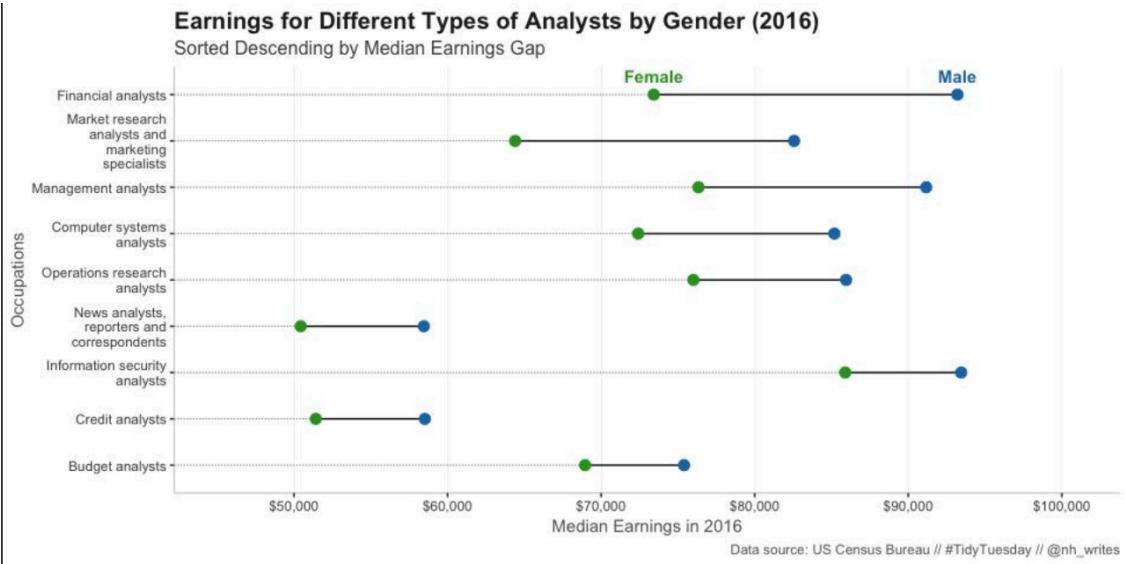


@frizzyroselle

Median earnings across occupations in Computing and Mathematical category Gap and total workers (2013-2016)

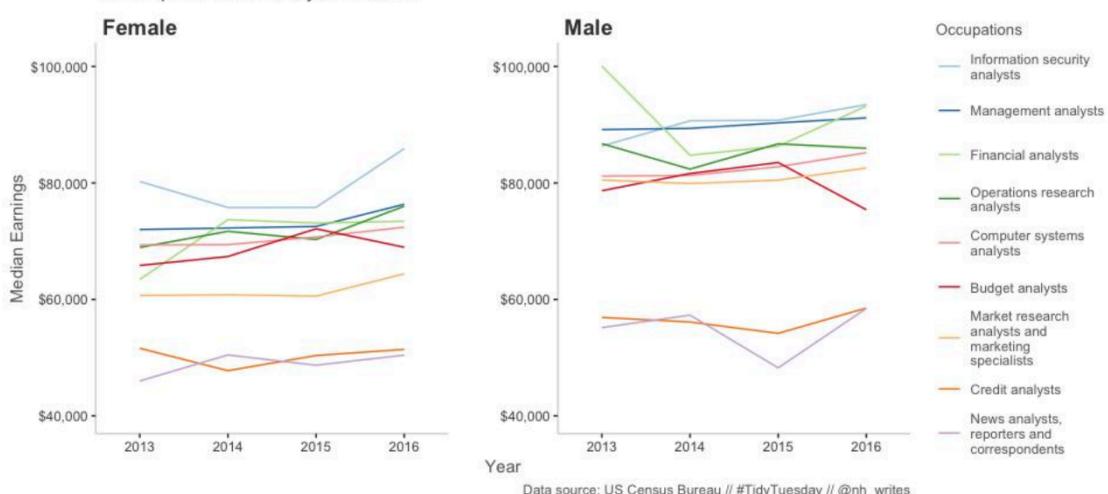


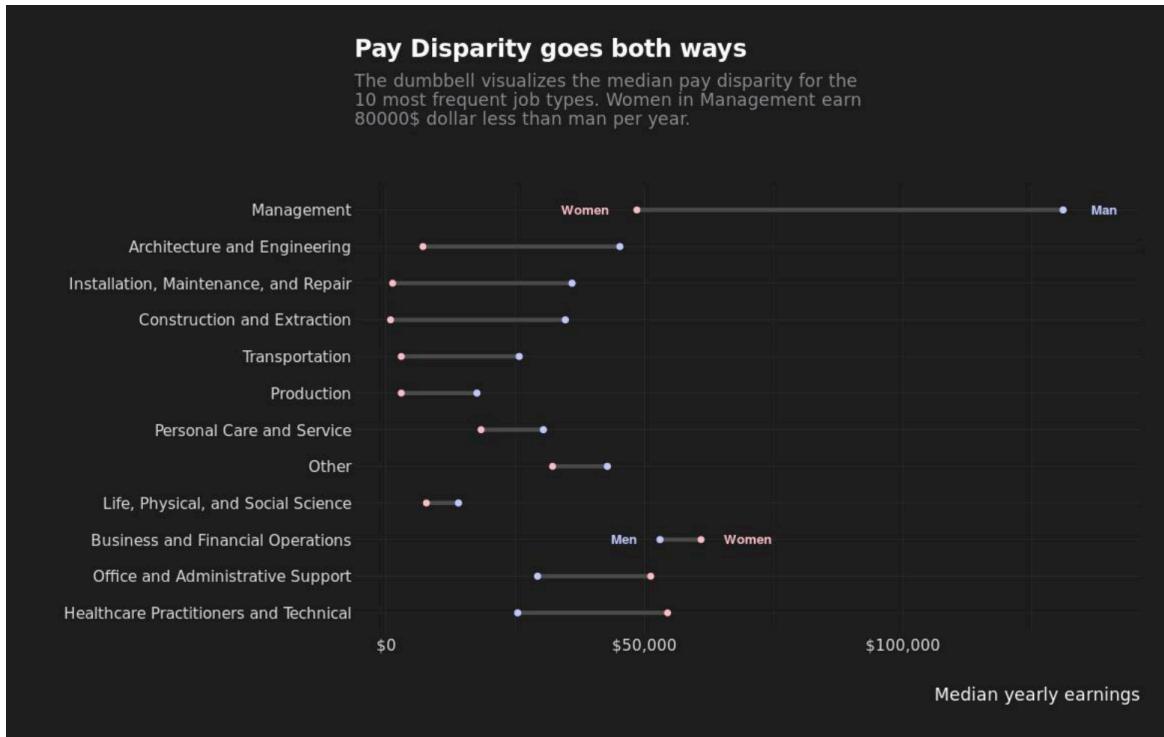
Data: US Census Bureau | @rcammisola



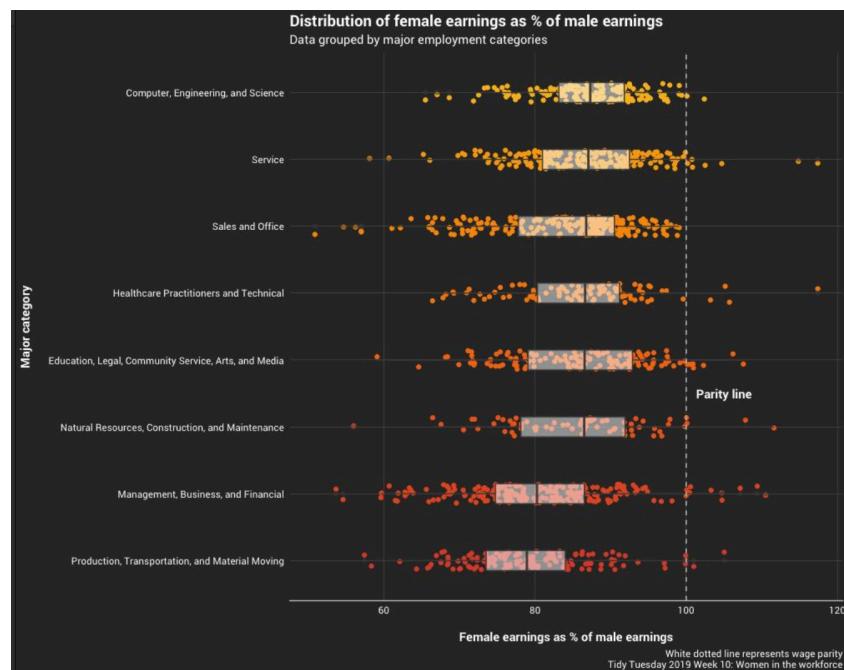
Earnings for Different Types of Analysts by Gender (2013-2016)

All occupations with "analyst" in the title





@Christi58451746



@harrocyranka

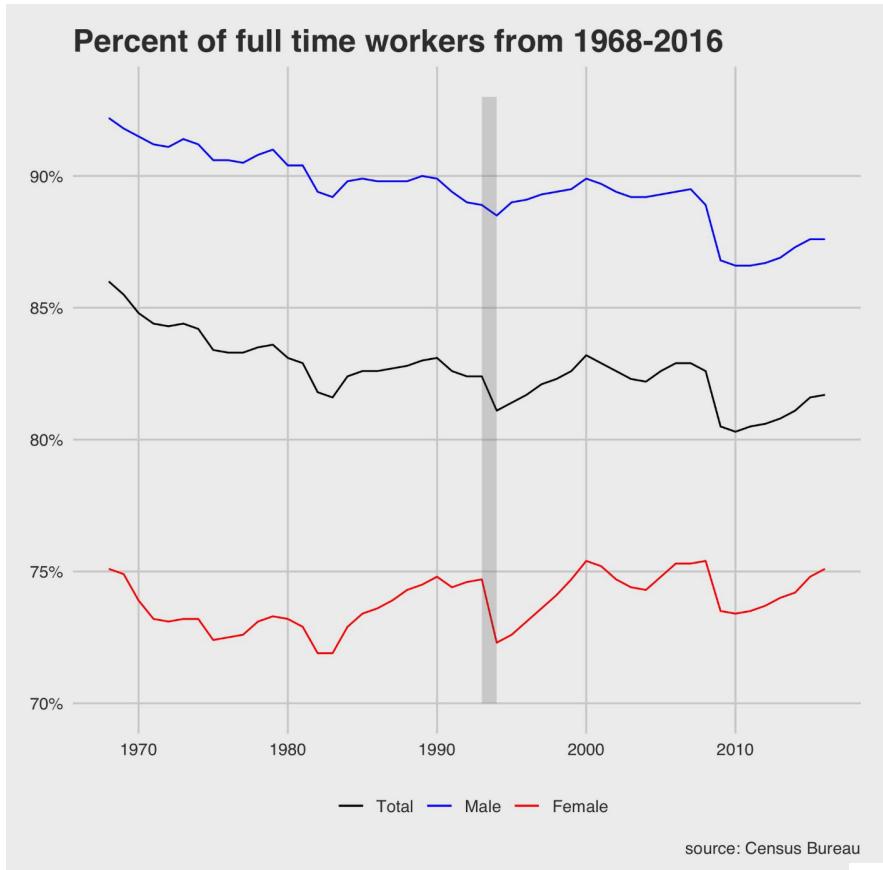
Gender wage distribution

Comparing the distribution of wages between males and females in the major occupation categories.
Healthcare fields tend to have better wage parity, while most others have significant wage disparities.

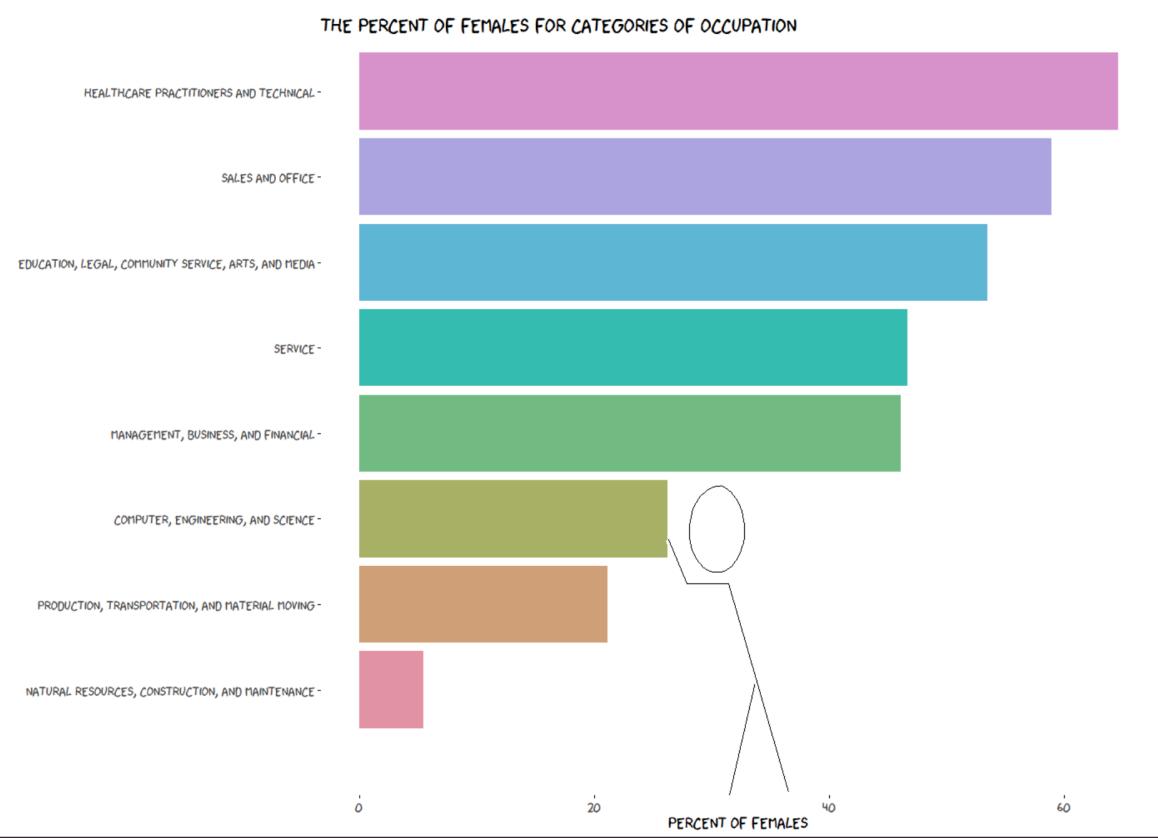


@parkermquinn

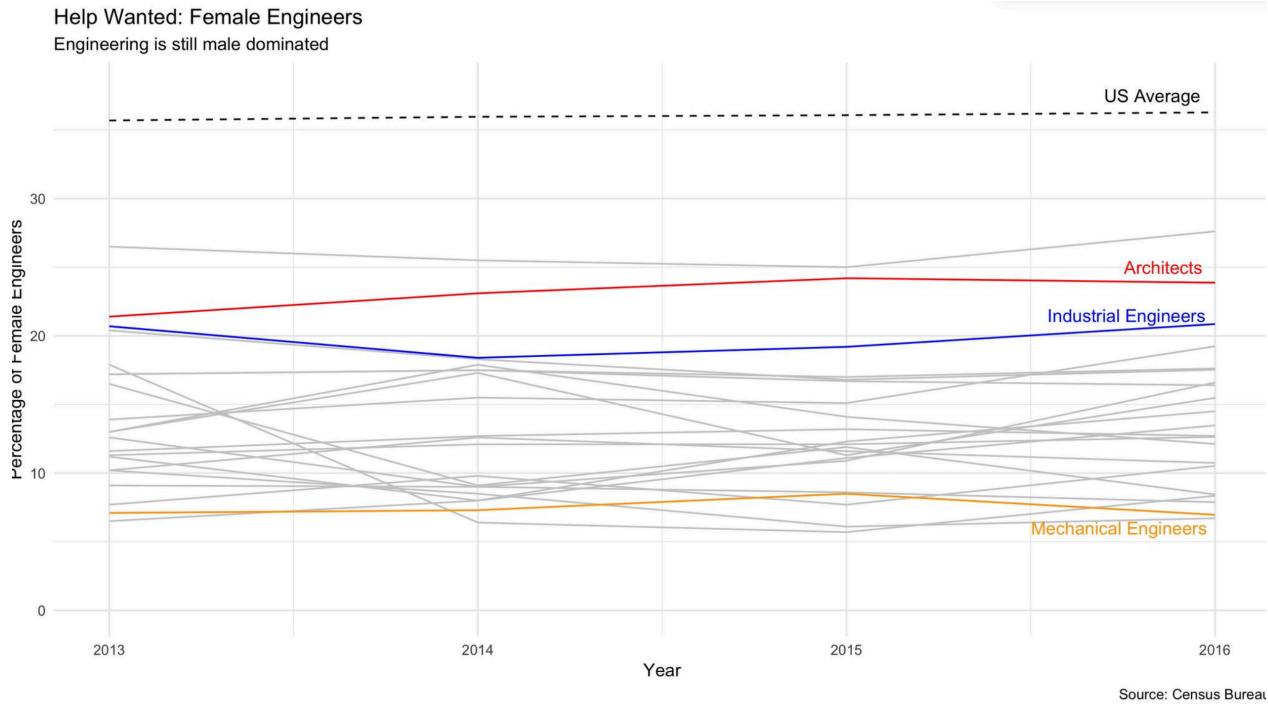
Percent females per category of occupation



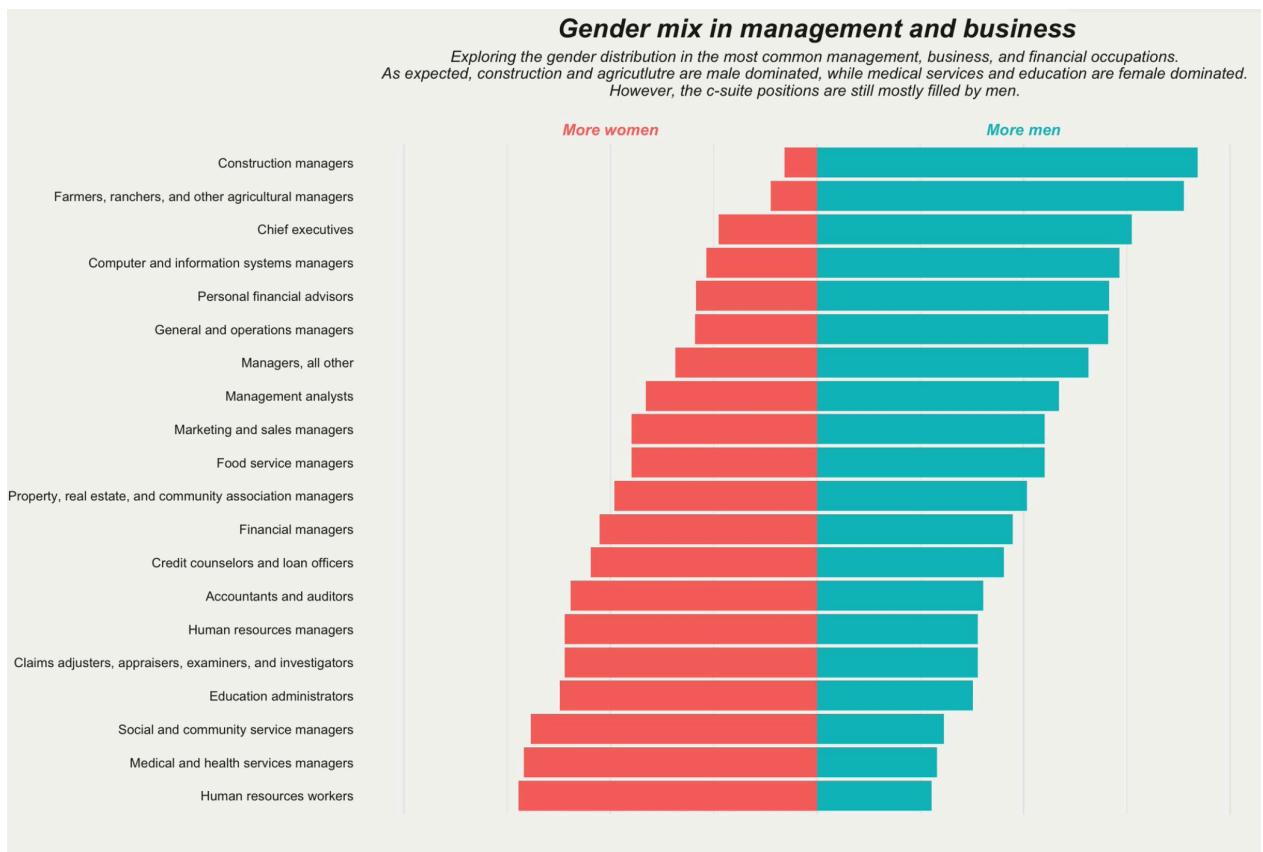
[@trevin_flick](#)



[@violetzrn](#)

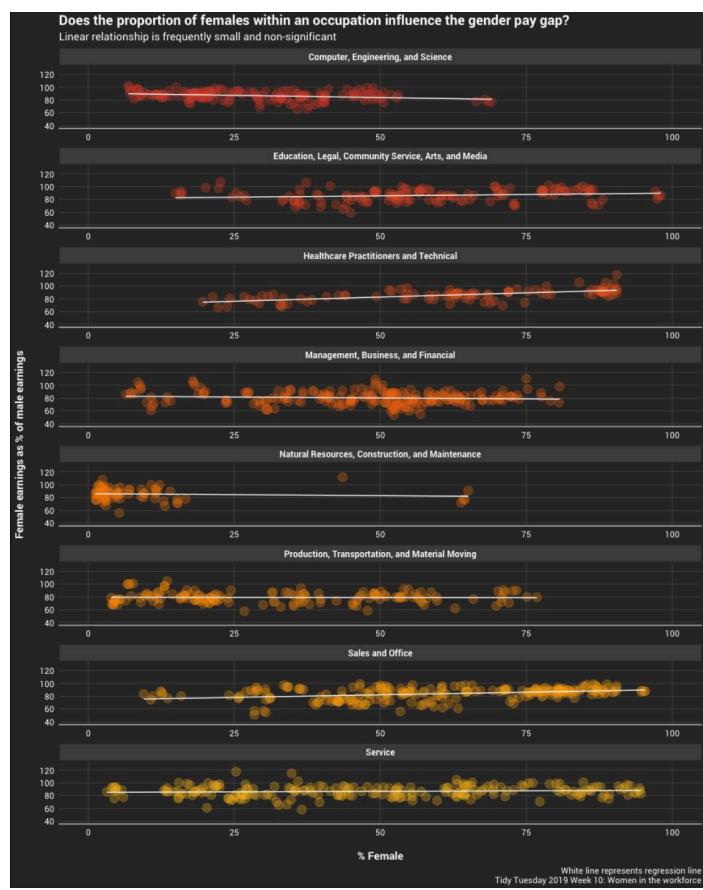


@k_j_norris



@parkermquinn

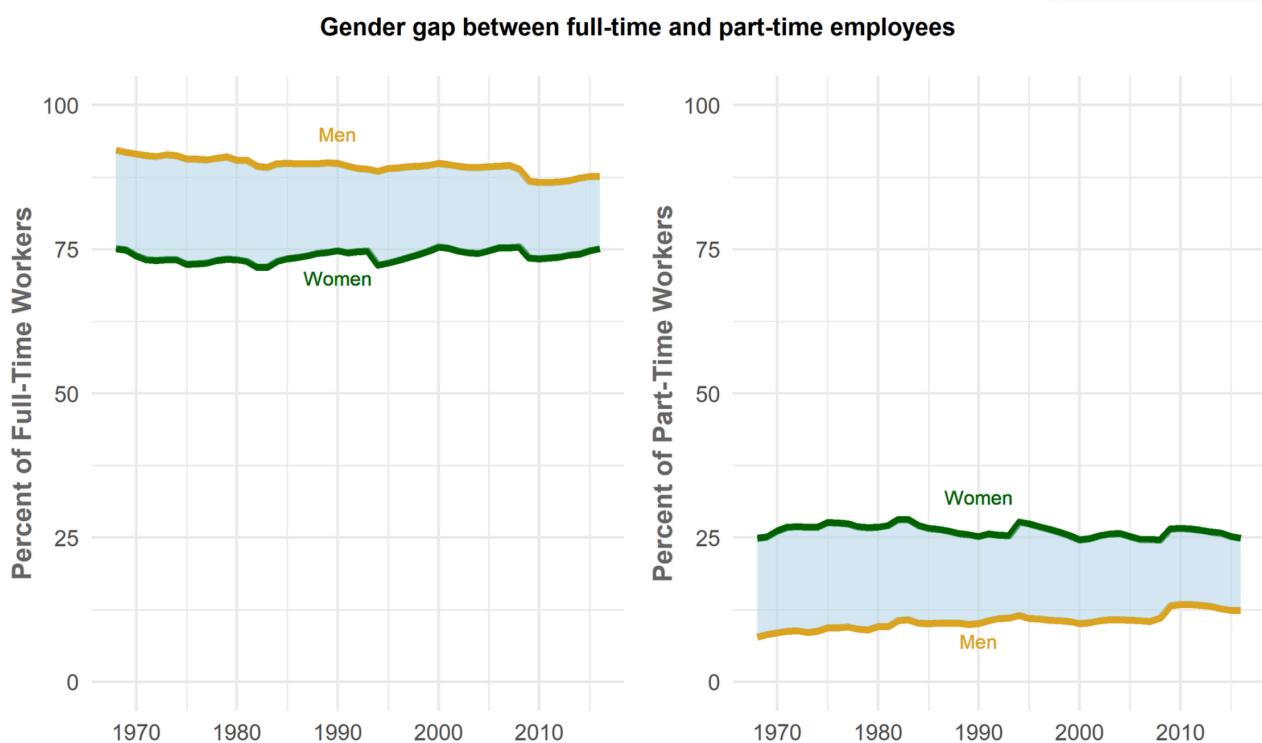
Other



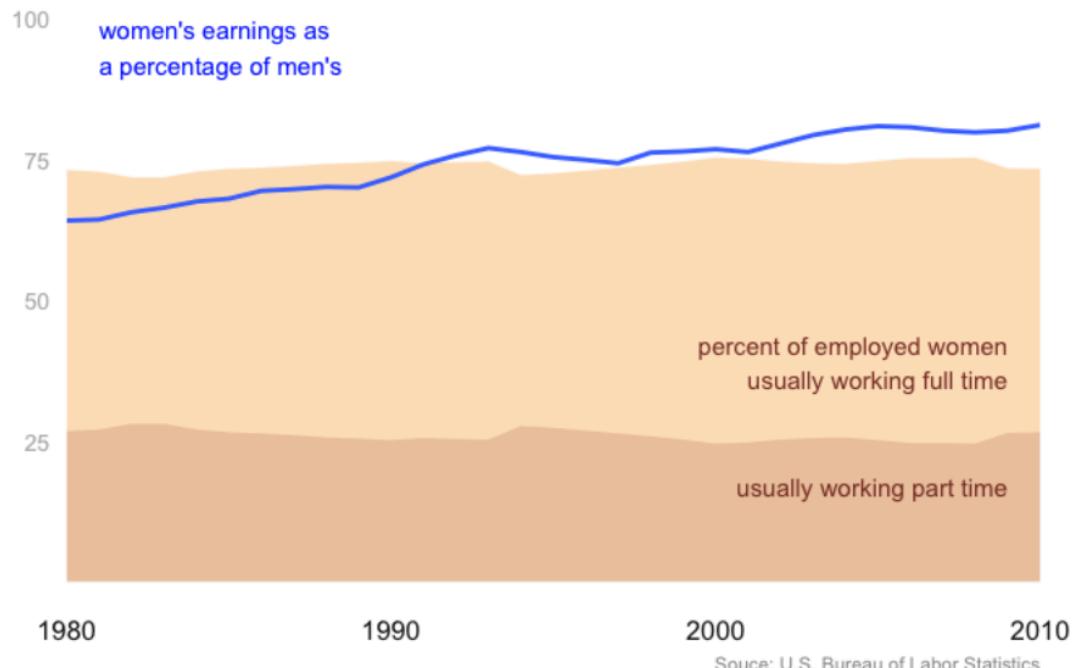
@harrocyranka



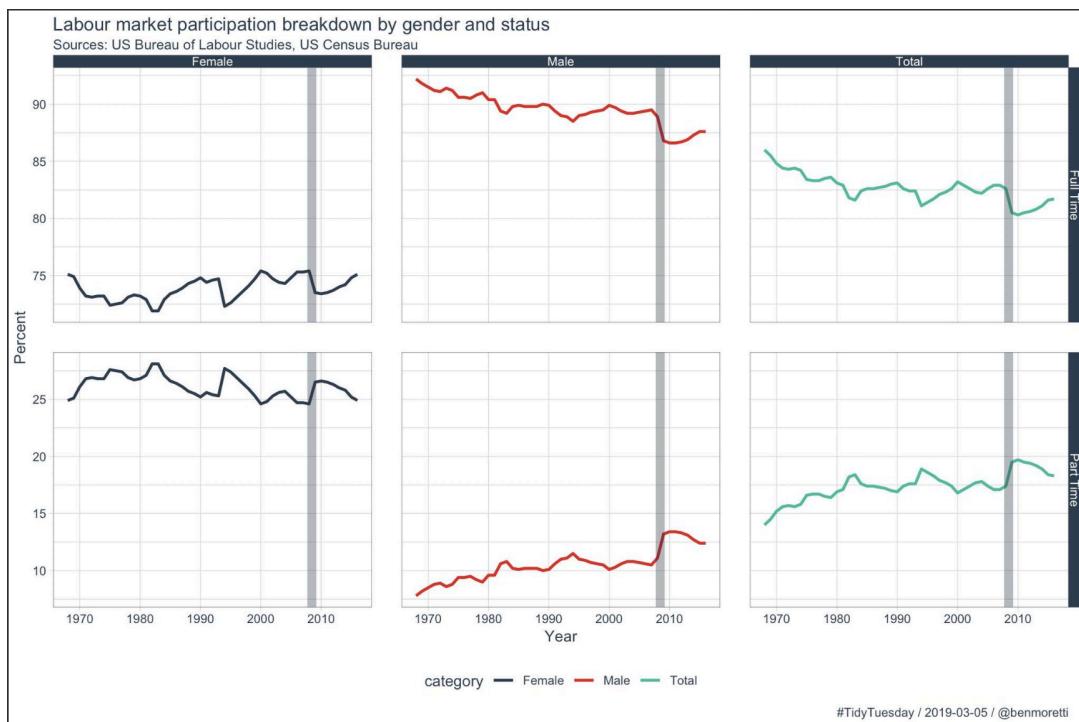
@frizzvroselle



@mark_switajski

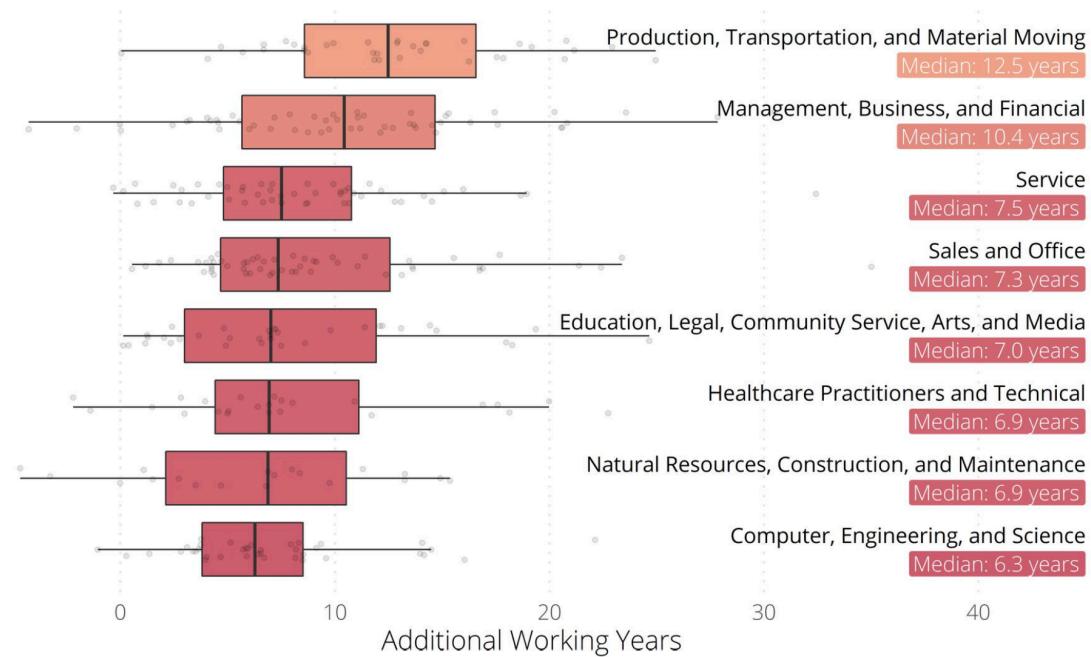


@geokaramanis



A Woman's Work is Never Done

an occupation by occupation analysis of the number of extra years women would have to work to match the earnings of their male colleagues



Source : US Census Bureau

[<https://www.census.gov/data/tables/time-series/demo/industry-occupation/median-earnings.html>]
Assumes a 45 year working life

@gathmad