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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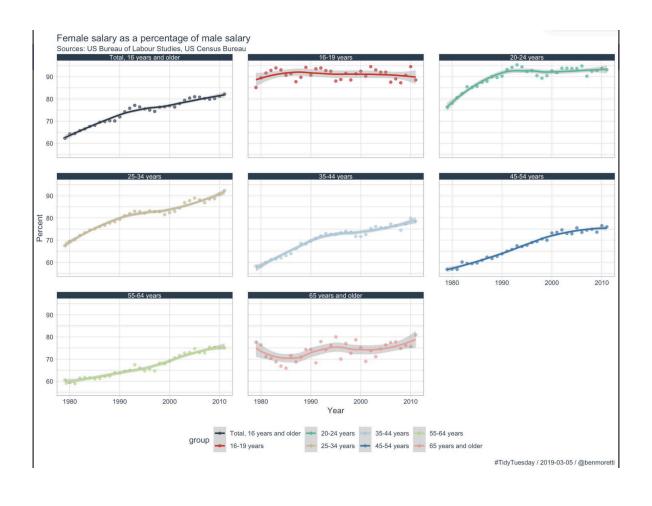
employed_gender.csv

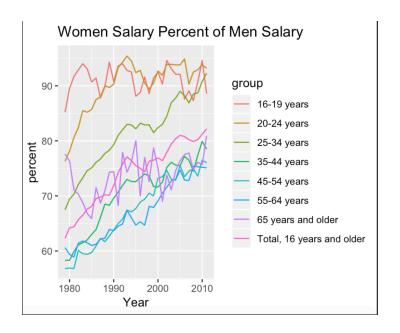
variable	class	description
year	double	Year
total_full_time	double	Percent of total employed people usually working full time
total_part_time	double	Percent of total employed people usually working part time
full_time_female	double	Percent of employed women usually working full time
part_time_female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

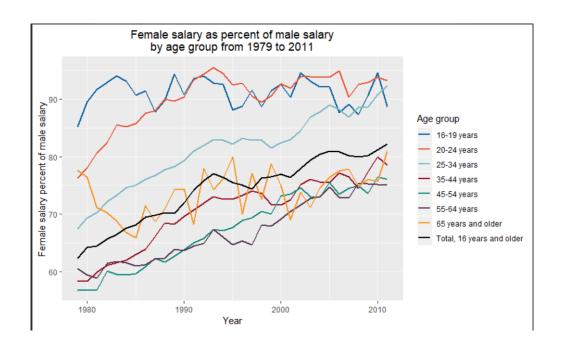
variable	class	description
Year	integer	Year
group	character	Age group
percent	double	Female salary percent of male salary

Female salary as a percent of male salary by age group

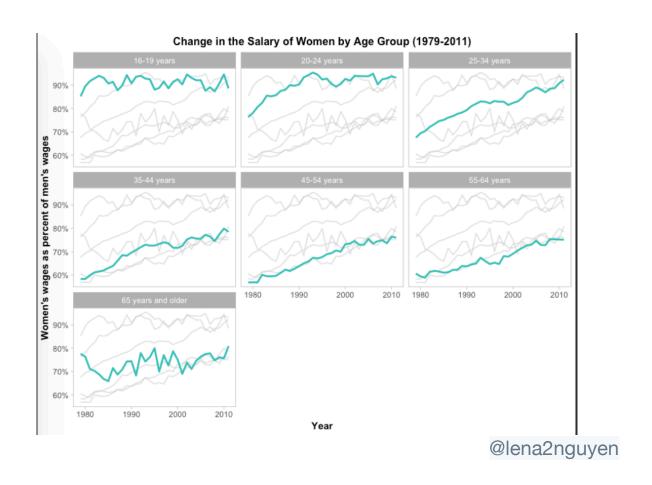


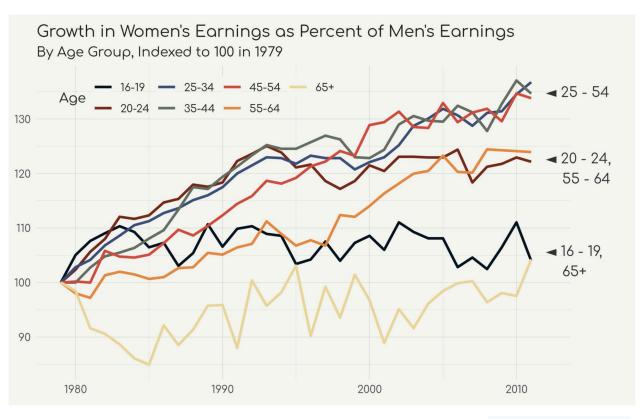


@KendallaSmith_



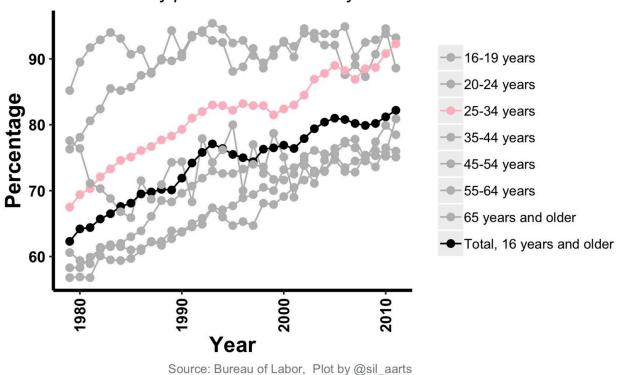




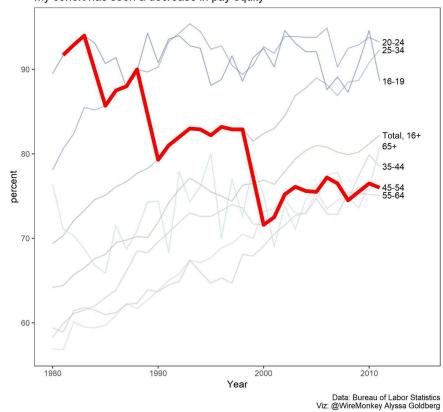


TidyTuesday: Women in workplace

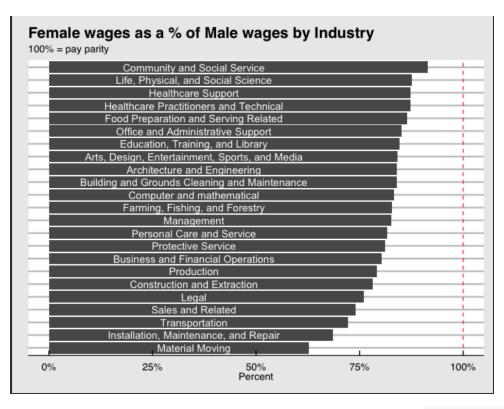
Female salary percent of male salary

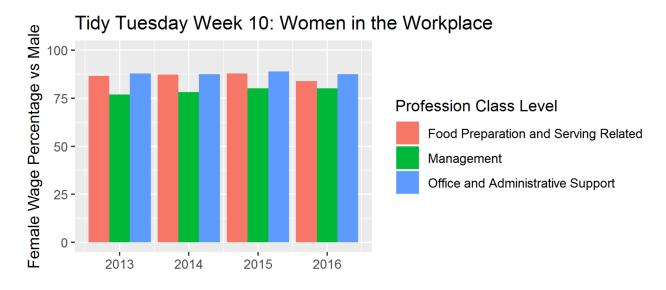


While each age group has trended toward parity over time my cohort has seen a decrease in pay equity



Female salary compared to male salary by sector

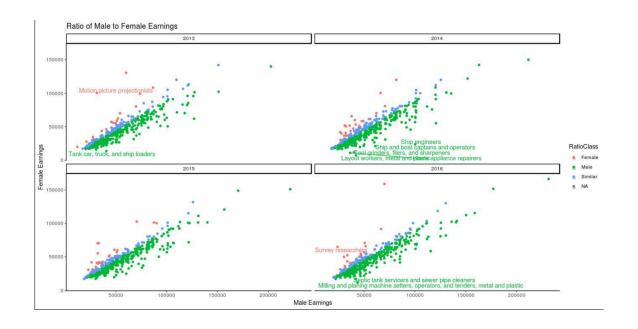


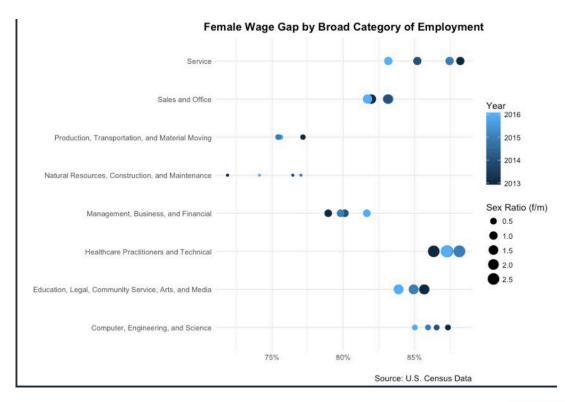


Source: Census Bureau

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

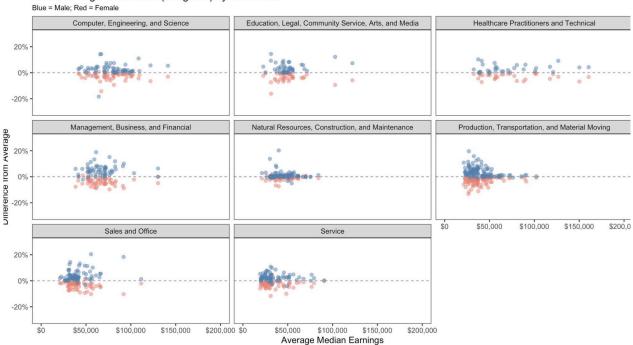
@JerrickTram



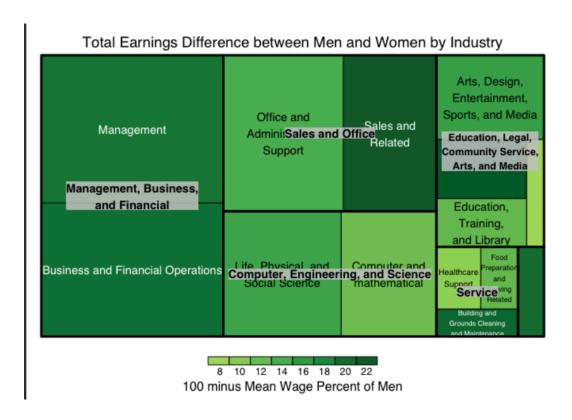


@jon_cole

2016 Earnings Differences (Weighted) by Job Sector

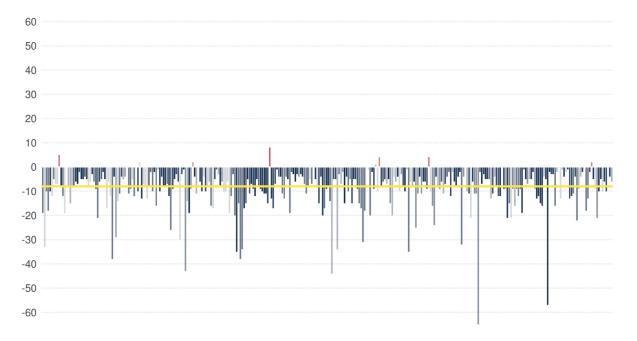


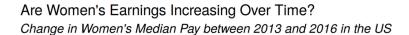
Graphic: @eeysirhi Source: Bureau of Labor Statistic:

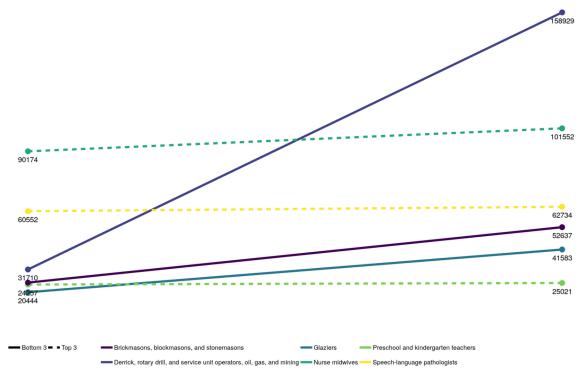


@kevin_m_kent

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

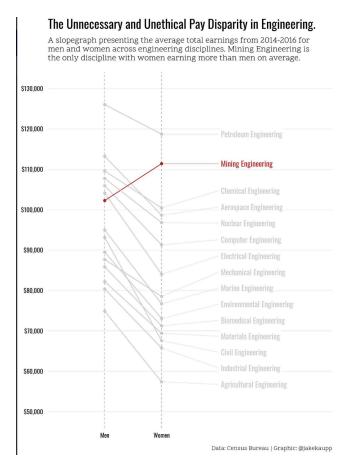


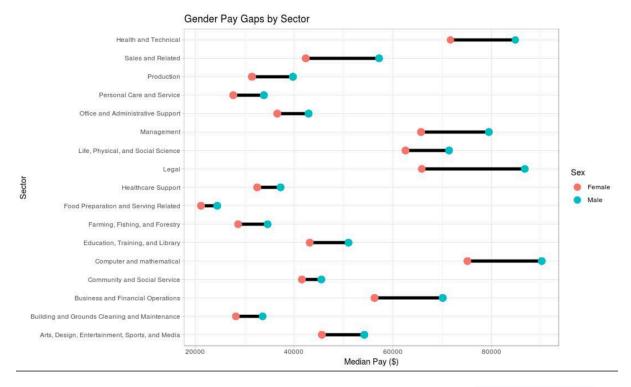




Notes: Top 3 occupations with most women in 2016 and bottom 3 occupations with least women in 2016 only.

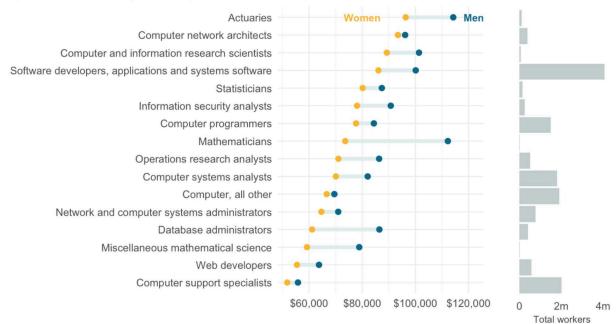




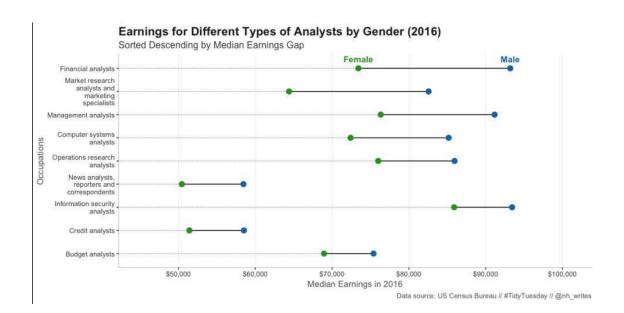


@frizzyroselle

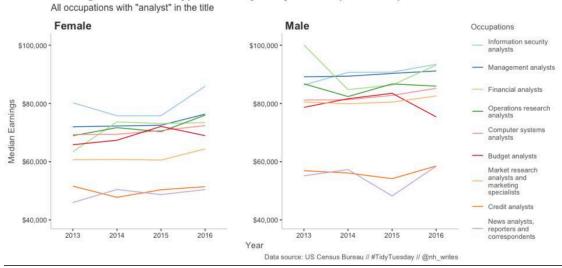
Median earnings across occupations in Computing and Mathematical category Gap and total workers (2013-2016)

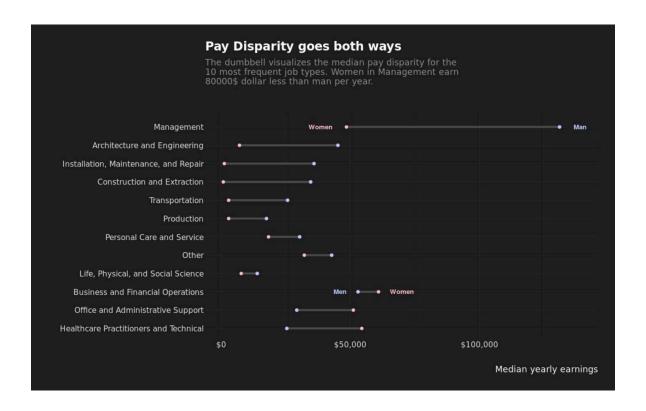


Data: US Census Bureau | @rcammisola

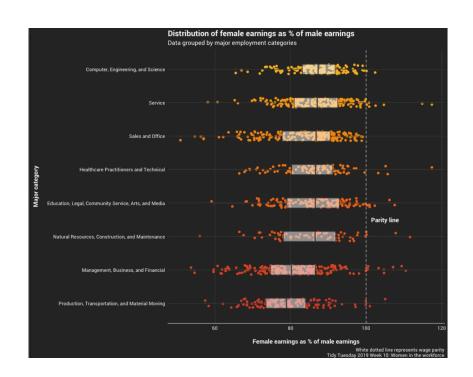


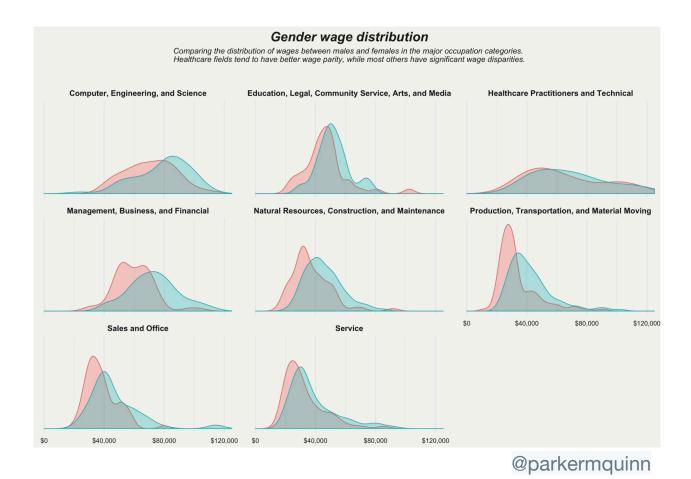
Earnings for Different Types of Analysts by Gender (2013-2016)



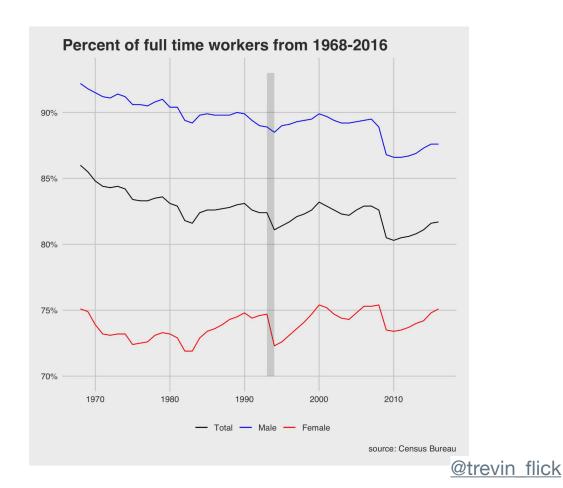


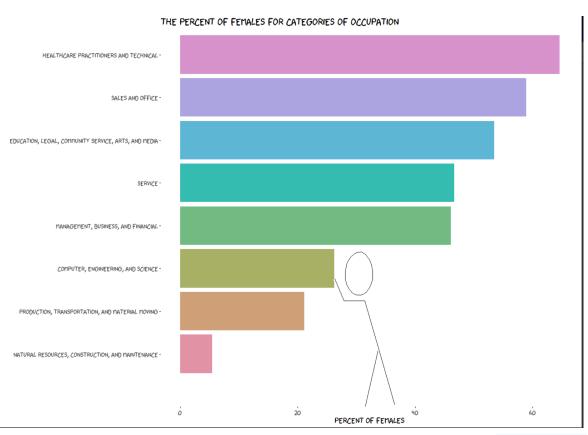
@Christi58451746

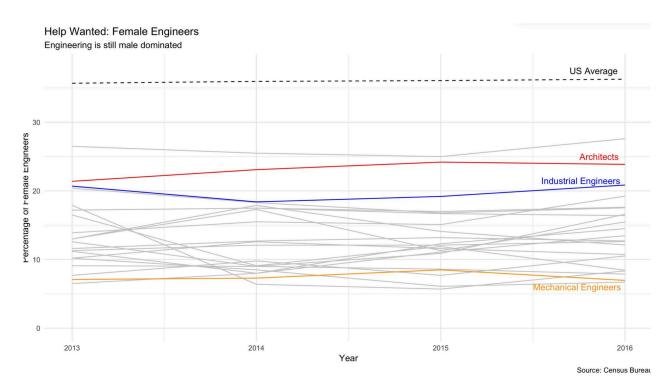




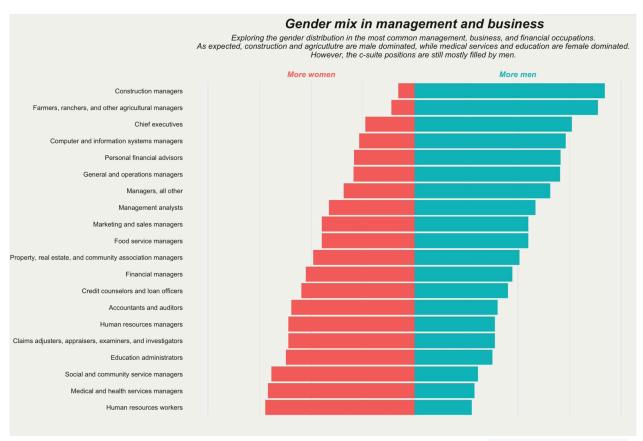
Percent females per category of occupation



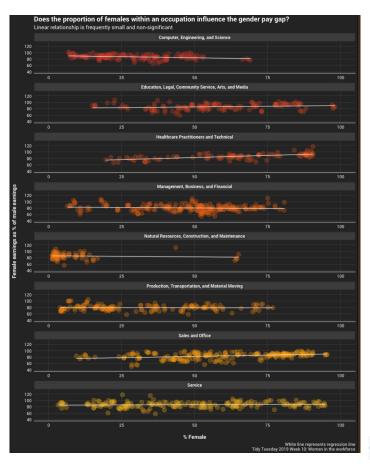






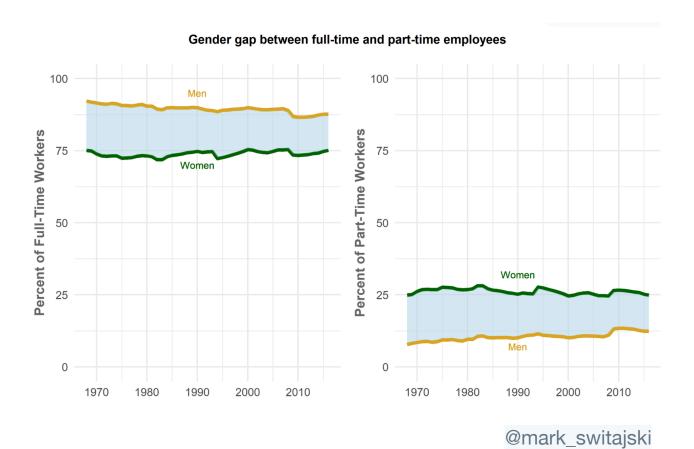


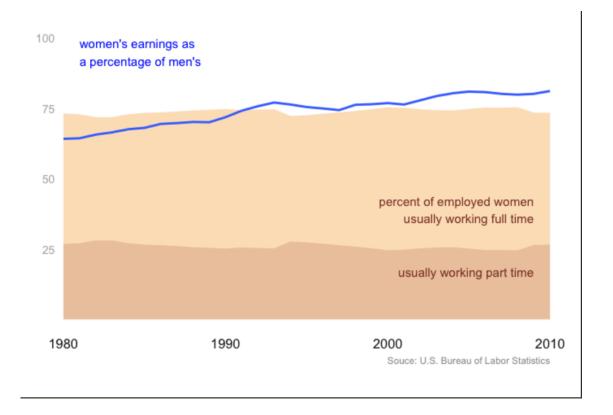
Other



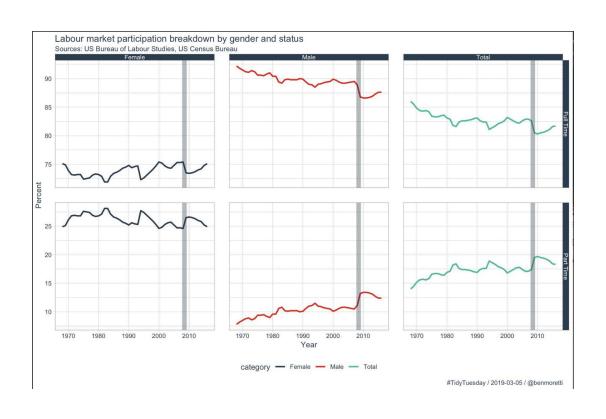


@frizzvroselle



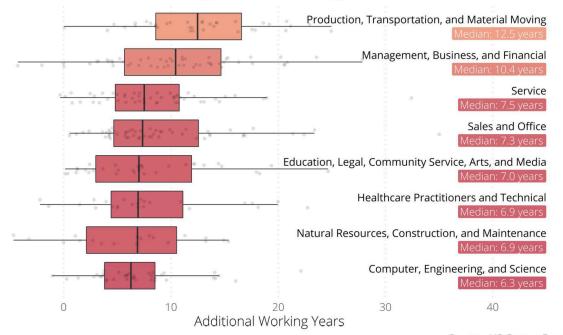


@geokaramanis



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

