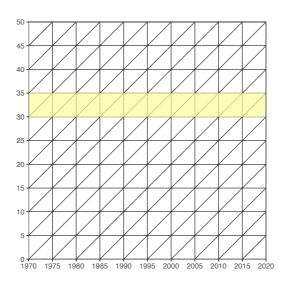
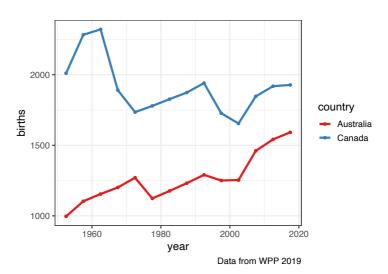
D is for Demography

Monica Alexander

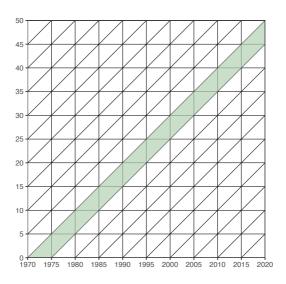
A is for Age



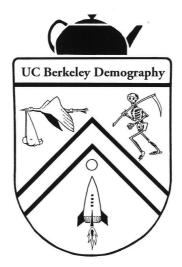
B is for Births



C is for Cohort



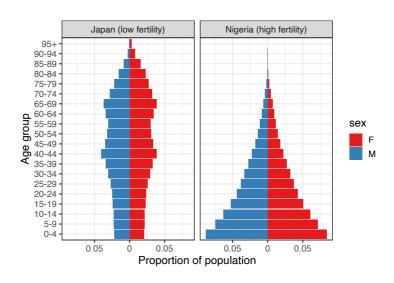
D is for Demography!



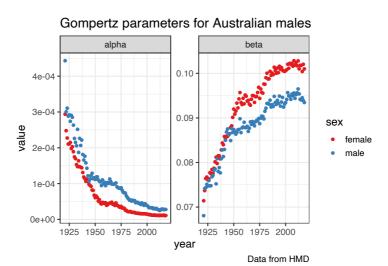
E is for Euler-Lotka equation

$$1 = \int e^{-ra} l(a) f(a) da$$

F is for Fertility



G is for Gompertz mortality



H is for Hutterites

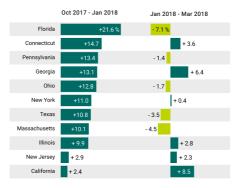
Age	n(x)
15	0.36
20	0.46
25	0.431
30	0.396
35	0.321
40	0.167
45	0.024

Data reproduced from Wachter 2014

I is for Immigration

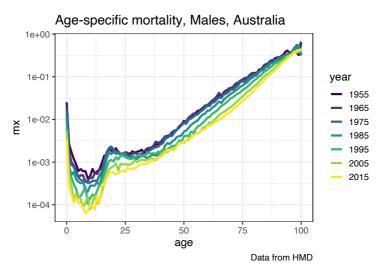
Migration after Hurricane Maria

Change of Puerto Rican migrant populations in the US* (as percentages)



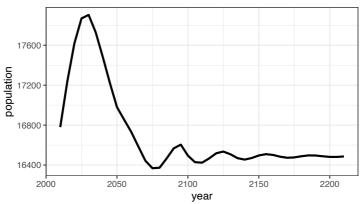
^{*} For the nine US states with the largest populations of Puerto Rican migrants

J is for 'J-shape' mortality



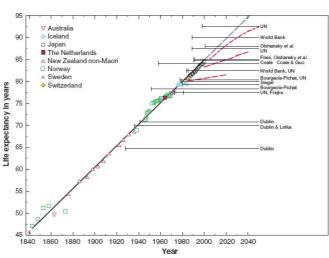
K is for Keyfitz momentum

Population over time if NRR went to 1 in 2010 Canada 2010-2250



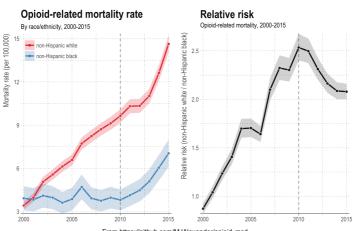
Data from WPP 2019

L is for Life expectancy



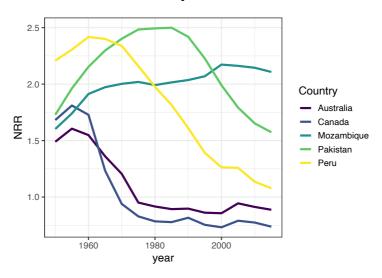
From Oeppen and Vaupel (2002)

M is for Mortality

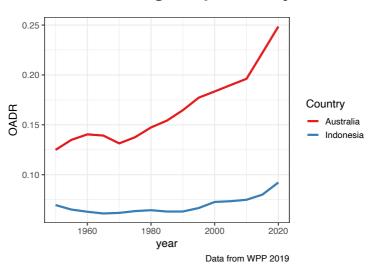


From https://github.com/MJAlexander/opioid-mcd

N is for Net Reproduction Ratio

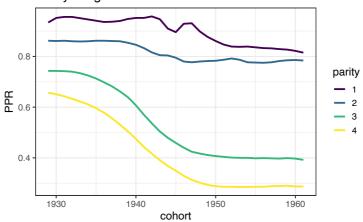


O is for Old-age dependency ratio



P is for Parity

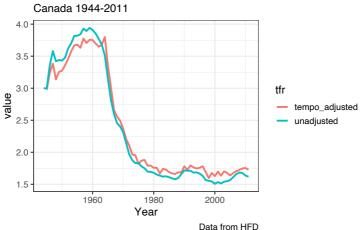




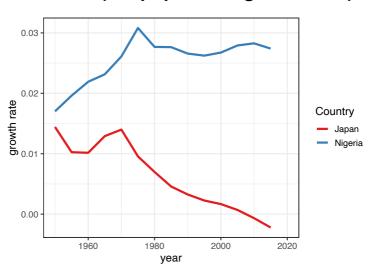
Data from HFD

Q is for Quantum (and tempo)

TFR and tempo-adjusted TFR

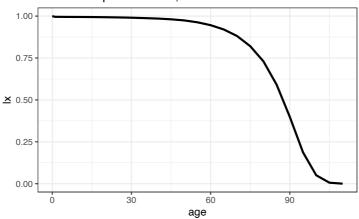


R is for r (the population growth rate)



S is for Survivorship

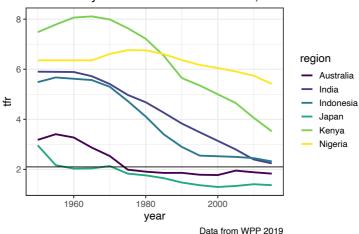
Survivorship for Ontario, 2015



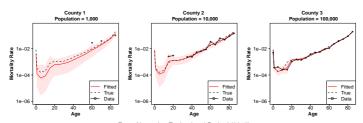
data from the Canadian Human Mortality Database

T is for Total Fertility Rate

Total fertility rate for selected countries, 1950-2015

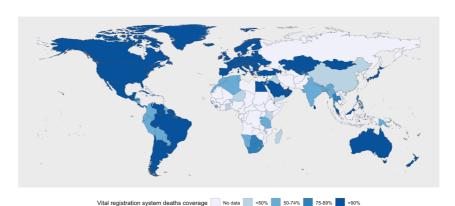


U is for Uncertainty



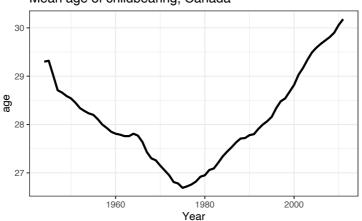
From Alexander, Zagheni and Barberi (2017)

V is for Vital registration systems



W is for Weighted mean





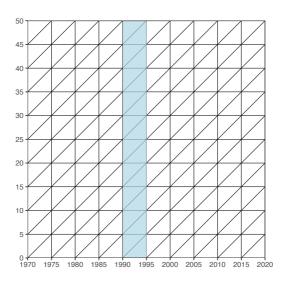
Data from HFD

X is for x (the age variable)

Table 1: Ontario life table (up to age 15), 2015 (Source: CHMD)

x	n	lx	dx	ax	Lx	Tx	ex
0	1	100000	421	0.14	99638	8441504	84.42
1	4	99579	53	1.55	398187	8341866	83.77
5	5	99526	36	2.54	497543	7943679	79.81
10	5	99490	51	2.72	497334	7446136	74.84
15	5	99439	94	2.74	496983	6948802	69.88

Y is for Year (period)



Z is for Zero population growth

