Nobel Prize Data Analysis

Advanced Visualization in R - Project presentation

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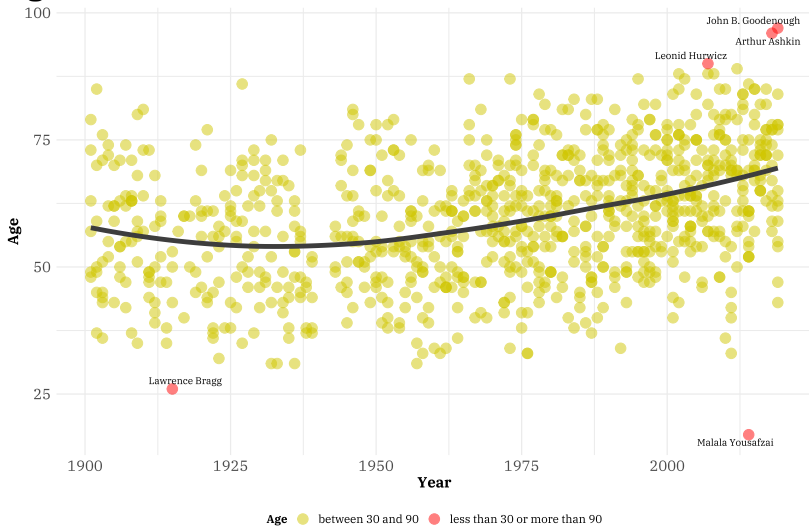2022-12-18

Data

Dataset description
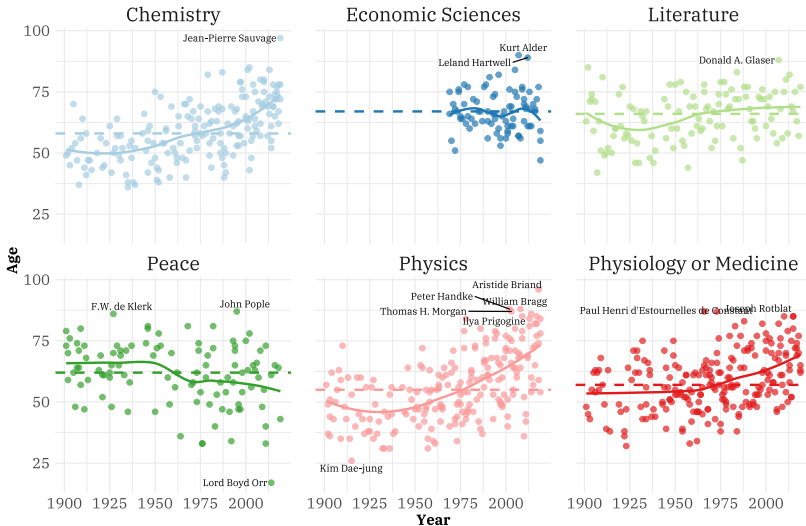
Visualization

Plot 1

Age of Nobel laureates

Figure showing a scatter plot of the age of Nobel laureates by year, with labeled points for John B. Goodenough, Arthur Ashkin, Leonid Hurwicz, Lawrence Bragg, and Malala Yousafzai.

Age — ● between 30 and 90 ● less than 30 or more than 90
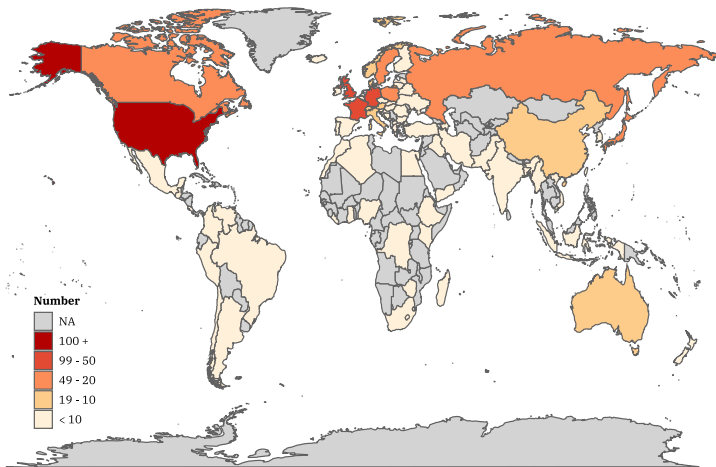
Plot 2

Age of Nobel Laureates over the years

Number of laureates born in a given country

Plot 4

Award category distribution

Category
Chemistry
Economic Sciences
Literature
Peace
Physics
Physiology or Medicine
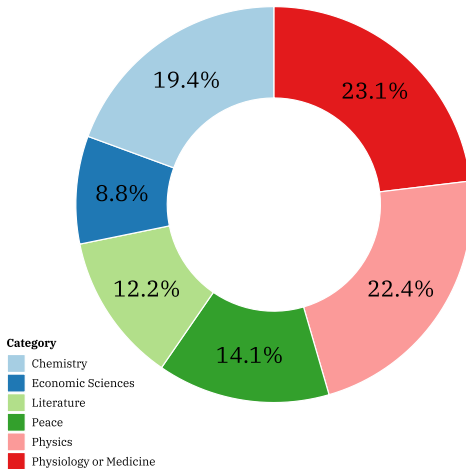
Plot 5

Gender and age in the sample
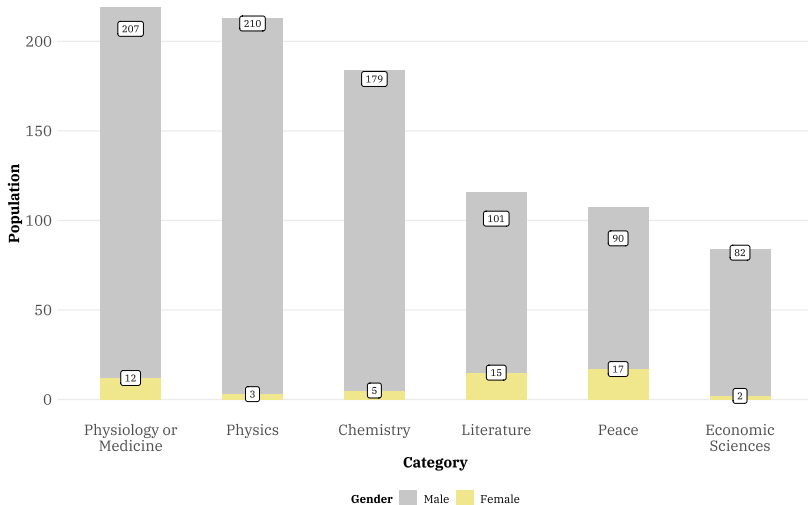
Plot 6

Nobel prizes based on categories
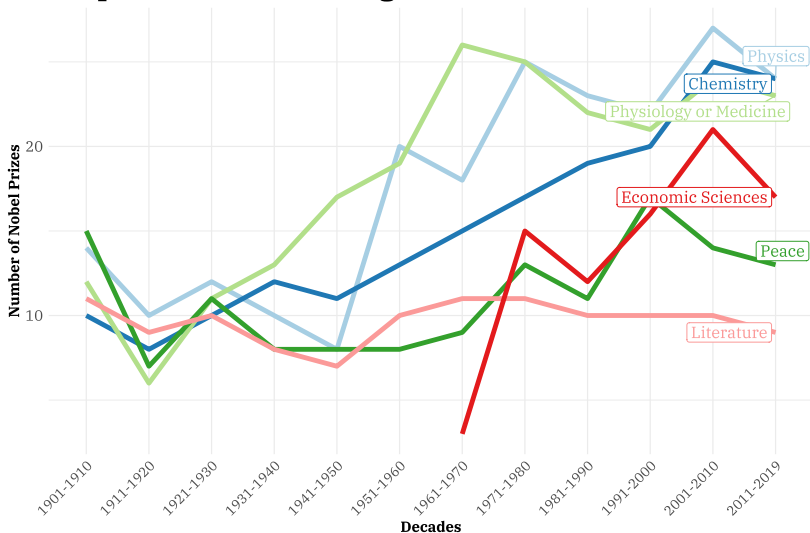
Plot 7

Dispersion of Nobel Prizes

Category	17-37	38-57	58-77	78-97	Unknown - organization
Economic Sciences		11	65	7	1
Literature		31	73	12	
Peace	6	27	62	10	29
Physiology or Medicine	4	106	97	12	
Chemistry	3	85	80	15	1
Physics	19	99	74	20	1

Age
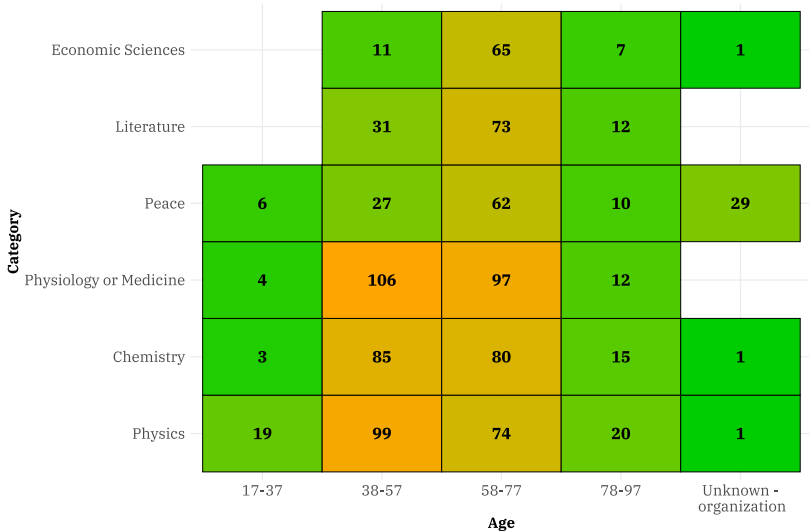
Plot 8

Birth Continent

Continent	Number of Nobel laureates
Europe	494
North America	304
Asia	72
Africa	27
Oceania	15
South America	11
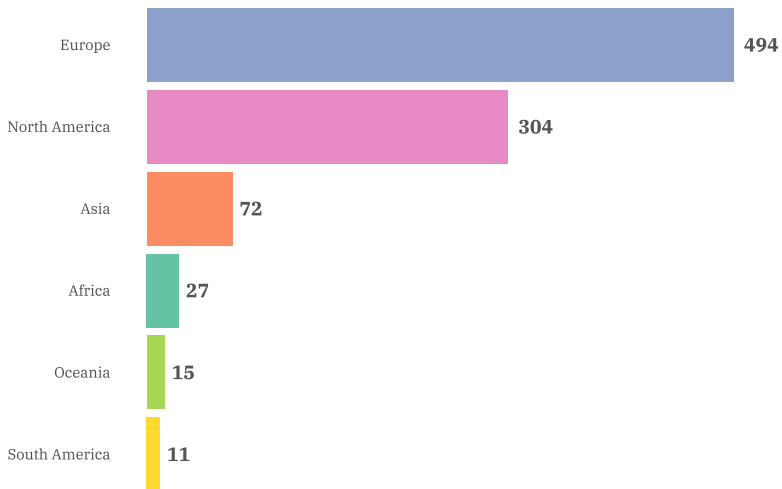
Number of Nobel laureates

Plot 9

Most 5 frequent words in each category

Chemistry

organic synthesis	10
chemical reactions	8
electron microscopy	4
dimensional structure	4
chemical systems	4

Economic Sciences

economic theory	6
asymmetric information	5
cooperative games	3
asset prices	3
alleviating global	3

Literature

narrative art	7
lyrical poetry	3
lofty idealism	3
artistic power	3
depicted human	2

Peace

human rights	10
violent struggle	8
crucial role	5
international peace	4
international cooperation	4

Physics

elementary particles	10
atomic nuclei	7
pioneering contributions	6
decisive contributions	6
inter alia	5

Physiology or Medicine

discoveries relating	9
genetic control	6
signal transduction	5
nervous system	5
infectious diseases	5