

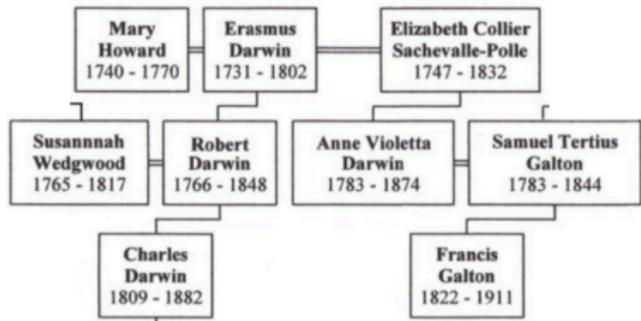
Regredire verso la media

Massimo Borelli

Maggio 2024



della serie, una famiglia mica male



246

Anthropological Miscellanea.

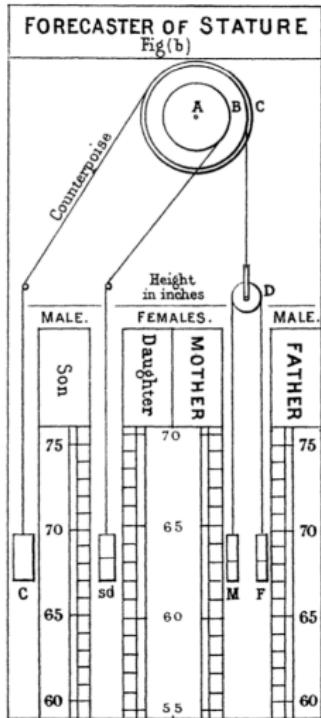
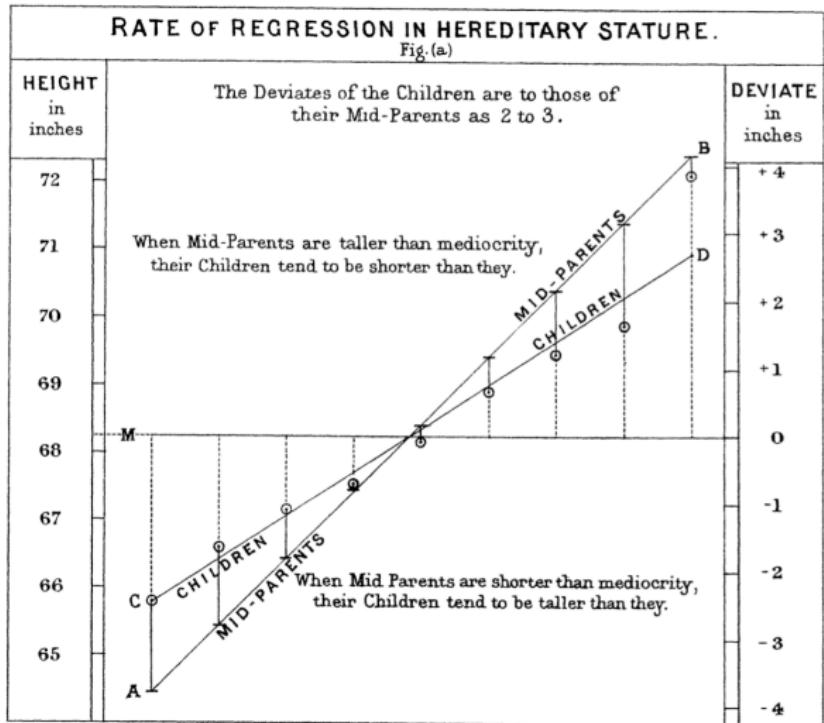
ANTHROPOLOGICAL MISCELLANEA.

REGRESSION *towards MEDIOCRITY in HEREDITARY STATURE.*

By FRANCIS GALTON, F.R.S., &c.

[WITH PLATES IX AND X.]

THIS memoir contains the data upon which the remarks on the Law of Regression were founded, that I made in my Presidential Address to Section H, at Aberdeen. That address, which will appear in due course in the Journal of the British Association, has already been published in "Nature," September 24th. I reproduce here



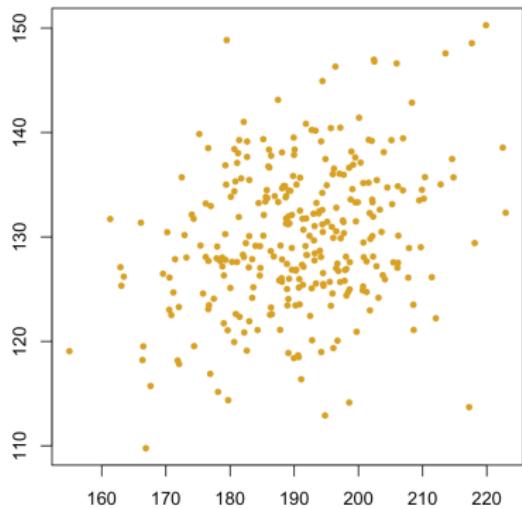
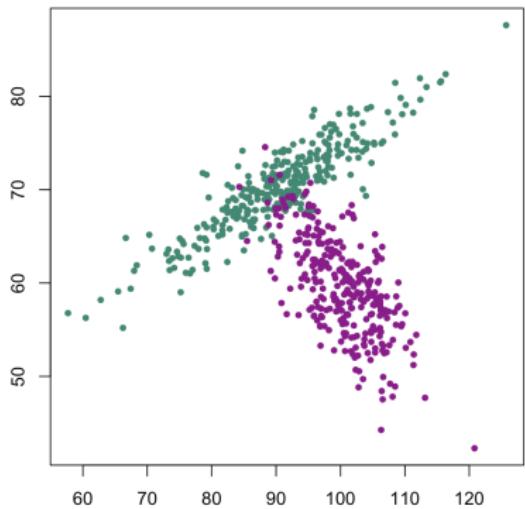
due strumenti basilari

- la **correlazione**
- la retta di **regressione**

vi ricordate?

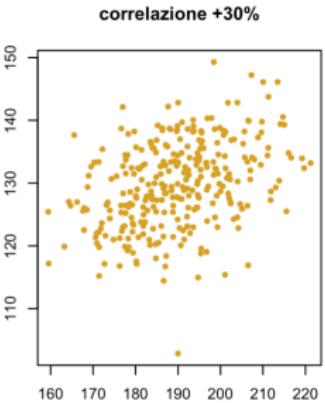
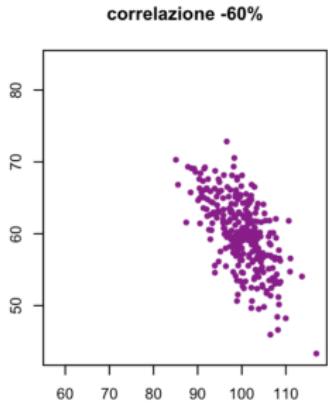
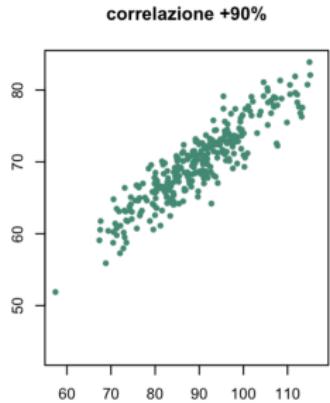


vi ricordate?



+90%, -60%, +30%

il coefficiente di correlazione ρ di Pearson



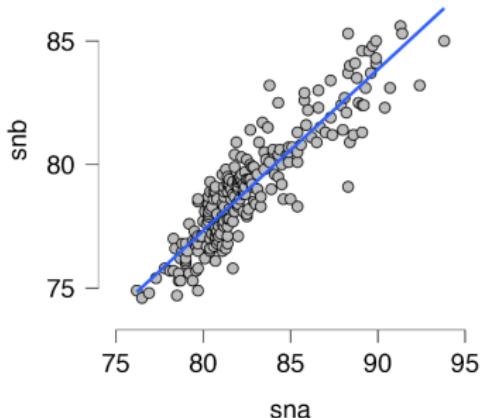


Tabella: Pearson's Correlations

Variable	sna

regressione lineare classica

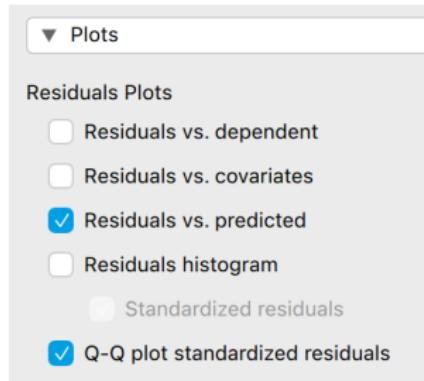
Tabella: Fixed effects

Model		Unstndr	Std Err	β	t	p
H ₀	(Intercept)	79.09	0.15		512.08	< .001
H ₁	(Intercept)	25.12	1.65		15.19	< .001
	sna	0.65	0.02	0.91	32.67	< .001

Tabella: Random component

Model	R	R ²	Adjusted R ²	RMSE
H ₀	0.000	0.000	0.000	2.38
H ₁	0.905	0.819	0.818	1.02

il principio dei minimi quadrati



<https://seeing-theory.brown.edu/>

diagnostica della regressione

▼ Plots

Residuals Plots

- Residuals vs. dependent
- Residuals vs. covariates
- Residuals vs. predicted
- Residuals histogram

Standardized residuals

Q-Q plot standardized residuals

United States
Environmental Protection
Agency

Office of Environmental
Information
Washington, DC 20460

EPA/240/B-06/003
February 2006

 **Data Quality Assessment:
Statistical Methods for
Practitioners**
EPA QA/G-9S

diagnostica della regressione

