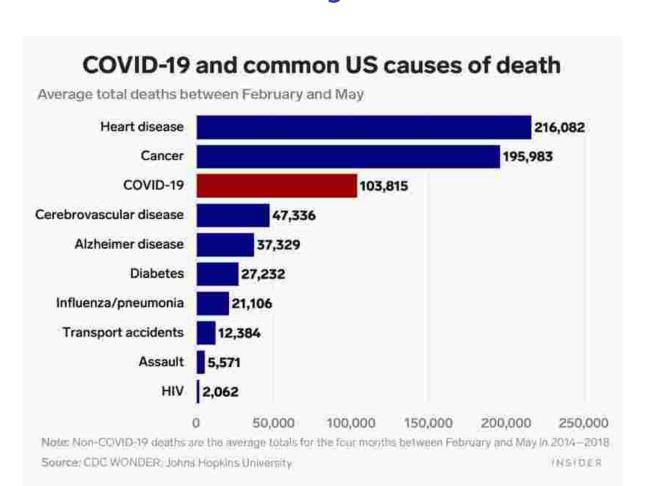
DATA COLLECTION AND VISUALIZATION

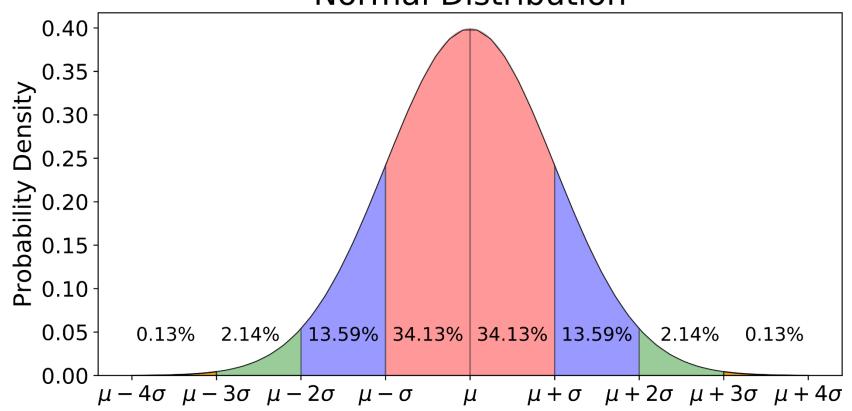
Pierre-Alexandre Balland

What is new in the DS revolution self.file.seek(8) 38 self.fingerprints. 39 40 41 @classmethod 42 def from_settings(cls, 43 44 45 46 47 48 49 50 51 52 53 54 debug = settings.get return cls(job_dir(settimes) def request_seen(self, req fp = self.request_fingerprise fp in self.fingerprints: return True self.fingerprints.add(fp) self.file.write(fp + os.linesus) if self.file: def request_fingerprint(self, n return request_fingerprint(record)

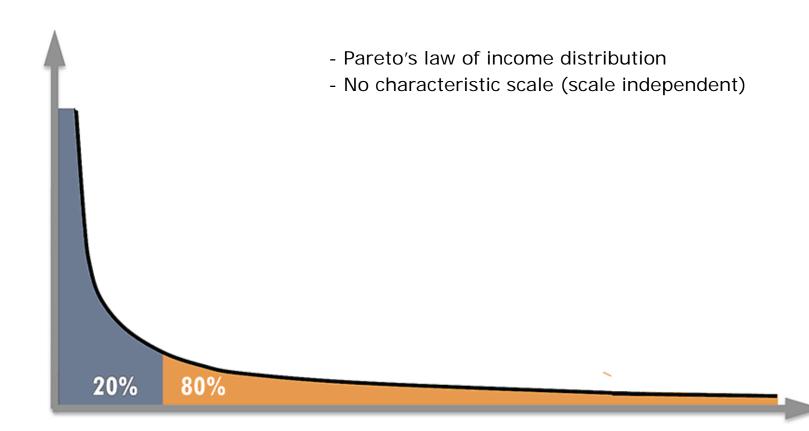
What is the take-away?



Normal Distribution



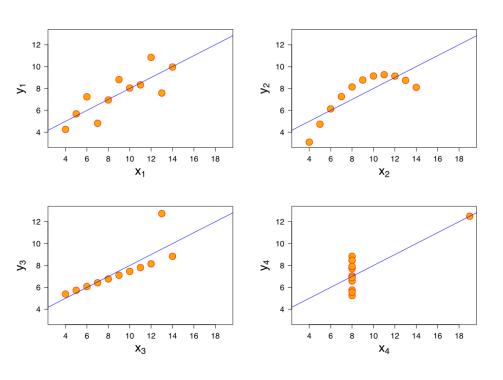
Fat tails (power laws for instance)



Where is the data?

- Government sources: <u>www.cbs.nl</u>
- Intergovernmental organisations: <u>www.oecd.org</u>
- University datasets: <u>www.dataverse.harvard.edu</u>
- Data products: <u>www.crunchbase.com</u>
- Privately owned data
- Collect your own data: surveys
- Collect your own data: create a data harvesting product

Anscombe's quartet



Mean of x = 9Mean of y = 7.5Correlation between x and y = 0.816Linear regression line: y = 3.00 + 0.5xR2 = 0.67