Pareto's Law Pareto
The high-end of income distribution in a society follows a power law,
P(m) ~ m - (1+x)   for large m.
P(m) -> (Normalised) Number of people with an income m or higher.
d -> Pareto exponent (200) log P (2>0). log P(m) ~ - (1+d) log m
A straight line in the log m
Pareto studied income data of Lugland, Prinssia, Saxony, Italy and Dem. Also on cikes like Paris, Klorence, Augsburg.
The value of & was abovered around 1.5.
Later validated in commtries like U.S. A., India, Japan and germany. (Even in ancient Egypt).
Special Case: [X=L] Zipf's law. Seen in City sige distributions and usage frequency of words in languages. (George kinssley Zipf)