

inequality — Inequality measures

Remarks and examples

References

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stata.com

Stata does not have commands for inequality measures, except `roctab` has an option to report Gini and Pietra indices; see [R] [roctab](#). Stata users, however, have developed an excellent suite of commands, many of which have been published in the *Stata Journal* (SJ) and in the *Stata Technical Bulletin* (STB).

Issue	Insert	Author(s)	Command	Description
SJ-12-3	st0266	I. Almås, T. Havnes, M. Mogstad	<code>adgini</code>	Adjusting for age effects in cross-sectional distributions
STB-48	gr35	N. J. Cox	<code>psm</code> , <code>qsm</code> , <code>pdagum</code> , <code>qdagum</code>	Diagnostic plots for assessing Singh–Maddala and Dagum distributions fit by MLE
SJ-11-3	st0237	A. Doris, D. O’Neill, O. Sweetman	<code>gmmcovearn</code>	GMM estimation of the covariance structure of longitudinal data
STB-23	sg31	R. Goldstein	<code>rspread</code>	Measures of diversity: Absolute and relative
STB-48	sg104	S. P. Jenkins	<code>sumdist</code> , <code>xfrac</code> , <code>ineqdeco</code> , <code>geivars</code> , <code>ineqfac</code> , <code>povdeco</code>	Analysis of income distributions
STB-48	sg106	S. P. Jenkins	<code>smfit</code> , <code>dagumfit</code>	Fitting Singh–Maddala and Dagum distributions by maximum likelihood
STB-51	sg115	D. Jolliffe, B. Krushelnytsky	<code>ineqerr</code>	Bootstrap standard errors for indices of inequality
STB-51	sg117	D. Jolliffe, A. Semykina	<code>sepov</code>	Robust standard errors for the Foster–Greer–Thorbecke class of poverty indices
SJ-8-4	st0100_1	A. López-Feldman	<code>descogini</code>	Decomposing inequality and obtaining marginal effects
SJ-6-4	snp15_7	R. Newson	<code>somersd</code>	Gini coefficient is a special case of Somers’ <i>D</i>
SJ-7-2	gr0001_3	S. P. Van Kerm, P. Jenkins	<code>glcurve</code>	Generalized Lorenz curves and related graphs
STB-48	sg108	P. Van Kerm	<code>poverty</code>	Computing poverty indices
STB-23	sg30	E. Whitehouse	<code>lorenz</code> , <code>inequal</code> , <code>atkinson</code> , <code>relsgini</code>	Measures of inequality in Stata

More commands may be available; enter Stata and type `search inequality measure, historical`.

Max Otto Lorenz (1876–1959) was born in Iowa and studied at the Universities of Iowa and Wisconsin. He proposed what is now known as the Lorenz curve in 1905. Lorenz worked for the Interstate Commerce Commission between 1911 and 1944, mainly with transportation data. His hobbies included calendar reform and Interlingua, a proposed international language.

To download and install the Jenkins and Van Kerm `glcurve` command from the Internet, for instance, you could

1. Select **Help > SJ and User-written Programs**.
2. Click on *Stata Journal*.
3. Click on *sj7-2*.
4. Click on *gr0001_3*.
5. Click on *click here to install*.

or you could instead do the following:

1. Navigate to the appropriate SJ issue:
 - a. Type `net` from `http://www.stata-journal.com/software`
Type `net cd sj7-2`or
 - b. Type `net` from `http://www.stata-journal.com/software/sj7-2`
2. Type `net describe gr0001_3`
3. Type `net install gr0001_3`

To download and install the Jenkins `sumdist` command from the Internet, for instance, you could

1. Select **Help > SJ and User-written Programs**.
2. Click on *STB*.
3. Click on *stb48*.
4. Click on *sg104*.
5. Click on *click here to install*.

or you could instead do the following:

1. Navigate to the appropriate STB issue:
 - a. Type `net` from `http://www.stata.com`
Type `net cd stb`
Type `net cd stb48`or
 - b. Type `net` from `http://www.stata.com/stb/stb48`
2. Type `net describe sg104`
3. Type `net install sg104`

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