

## inequality — Inequality measures

[Remarks and examples](#)[References](#)

## Remarks and examples

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	<a href="#">st0266</a>	I. Almås, T. Havnes, M. Mogstad	<code>adgini</code>	Adjusting for age effects in cross-sectional distributions
SJ-14-4	<a href="#">st0361</a>	F. W. Chávez Juárez, I. Soloaga	<code>iop</code>	<code>iop</code> : Estimating ex-ante inequality of opportunity
STB-48	<a href="#">gr35</a>	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	<a href="#">st0237</a>	A. Doris, D. O’Neill, O. Sweetman	<code>gmmcovearn</code>	GMM estimation of the covariance structure of longitudinal data
STB-23	<a href="#">sg31</a>	R. Goldstein	<code>rspread</code>	Measures of diversity: Absolute and relative
SJ-16-4	<a href="#">st0457</a>	B. Jann	<code>lorenz</code>	Lorenz and concentration curves
STB-48	<a href="#">sg104</a>	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	<a href="#">sg106</a>	S. P. Jenkins	<code>smfit</code> , <code>dagumfit</code>	Fitting Singh–Maddala and Dagum distributions by maximum likelihood
STB-51	<a href="#">sg115</a>	D. Jolliffe, B. Krushelnytsky	<code>ineqerr</code>	Bootstrap standard errors for indices of inequality
STB-51	<a href="#">sg117</a>	D. Jolliffe, A. Semykina	<code>sepov</code>	Robust standard errors for the Foster–Greer–Thorbecke class of poverty indices
SJ-8-4	<a href="#">st0100_1</a>	A. López-Feldman	<code>descogini</code>	Decomposing inequality and obtaining marginal effects
SJ-6-4	<a href="#">snp15_7</a>	R. Newson	<code>somersd</code>	Gini coefficient is a special case of Somers’s $D$
SJ-16-1	<a href="#">st0427</a>	O. O’Donnell, S. O’Neill, T. Van Ourti, B. Walsh	<code>conindex</code>	Calculation of rank-dependent inequality indices

Issue, <i>cont.</i>	Insert, <i>cont.</i>	Author(s), <i>cont.</i>	Command, <i>cont.</i>	Description, <i>cont.</i>
SJ-7-2	<a href="#">gr0001_3</a>	S. P. Van Kerm, P. Jenkins	<code>glcurve</code>	Generalized Lorenz curves and related graphs
STB-48	<a href="#">sg108</a>	P. Van Kerm	<code>poverty</code>	Computing poverty indices
STB-23	<a href="#">sg30</a>	E. Whitehouse	<code>lorenz</code> , <code>inequal</code> , <code>atkinson</code> , <code>relsgini</code>	Measures of inequality in Stata

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

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

1. Select **Help > SJ and community-contributed commands**.
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 community-contributed commands**.
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

**Max Otto Lorenz** (1876–1959) was born in Burlington, Iowa. He did his undergraduate studies at the University of Iowa and received his PhD from the University of WisconsinMadison in 1906. In 1905, he published his only article, “Methods of measuring the concentration of wealth”, in a scientific journal. In the article, he introduces what we now call the Lorenz curve, a term first introduced in a statistics textbook in 1912.

Lorenz worked all of his life in governmental statistical institutions. He was the Deputy Commissioner of Labor and Industrial Statistics for Wisconsin, worked for the U.S. Bureau of the Census and the Bureau of Railway Economics, and was the Director of the Bureau of Statistics and the Bureau of Transport and Economic Statistics.

His hobbies included calendar reform and Interlingua, a proposed international language.

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