Software

西海岸的风 东海岸的雨 11/15

Software

This list is a collection of Stata/R/Python/LaTeX resources online. They are not sorted by any particular order. There are many overlapping/outdated/updated materials so please use/disregard them wisely.

General

- **Code and Data for the Social Sciences: A Practitioner's Guide**[1]
- **Unofficial guidance on various topics by the AEA Data Editor**[2]

Other App

- **Coolors: a color schemes generator**[3]
- **Client-Side Web Development**[4] by Joel Ross and Mike Freeman
- **Diffchecker**[5]
- **WebPlotDigitizer**[6]: Web based tool to extract data from plots, images, and maps
- **Replication-Folder Template**[7]
- **Markdown Cheetsheet**[8]
- **Geogbra**[9]
- **Mathpix Snip**[10]
- **MyScript**[11]
- **Mathcha**[12]

Stata

- **UCLA**[13]
- **Princeton**[14]
- **LSE**[15]
- Stata Journal and forum to learn, such as **basic Stata techniques**[16]

- **Fundamentals of data analysis and visualization**[17] and cheetsheet
- **Introduction to Stata**[18] and **Advanced Stata Topics**[19]
- **Stata Tutorial**[20] Updated for Version 16 by Germán Rodríguez
- **Introduction to STATA**[21]
- **Introduction to Stata slides**[22]
- **Economics Lesson with Stata**[23]
- **Data Management & Applied Data Analysis with Stata**[24] by Carol Bigelow
- **Useful websites for Stata users collected by Masayuki Kudamatsu**[25]
- **StataTeX Blog**[26]: Tips for Stata, Latex and other useful resources for applied economists
- **Useful Stata Commands**[27] by Kenneth L. Simons
- **A BRIEF INTRODUCTION TO STATA WITH 50+ BASIC COMMANDS**[28] by Tobias Pfaff
- **Stata4Econ**[29] by Fan Wang
- **12+ ways to name and label variables in Stata**[30] and **the cookbook of stata and r**[31]
- Stata Tips: **Five small things I've learned recently**[32]
- **Stata Tips by Jan Kabátek**[33] and **more tips on big data**[34] and **recorder**[35]
- **Angrist's Data and Do file**[36]

Package

- Impact Evaluation Analytics: Introducing **ietoolkit**[37] -- a Stata package containing several commands to routinize tasks in impact evaluation
- **Publication quality tables in Stata: a tutorial for the tabout program**[38]
- **Export Stata Output to Latex**[39]
- **ettests**[40]/ **estout**[41] /**est2tex**[42]/ **regsave**[43]/ **texsave**[44]
- **RD related packages**[45] and **test**[46]
- **baselinetable**[47] creates handy summary stats tables for your baseline reports to make sharing your findings much easier
- **Binscatter and more**[48] by Michael Stepner
- **markdoc**[49] -- a general-purpose literate programming package for Stata that produces dynamic analysis documents in various formats

- **Supervised learning algorithms in Stata**[50]
- **strcompress**[51]: better compression for Stata string variables by Luke Stein
- **Loops with progress bars**[52]
- **speccurve**[53]: plot specification curves
- **Stata code for genderizing names using genderize.io api**[54]
- **Nice and fast table in Stata**[55] and **demo**[56]

Graph

- **Corresponding code/script for graphs**[57]
- **Graph workflow**[58]
- **Stata trick: recover the underlying data needed to draw a particular graph from a .gph file**[59]
- **uncluttered-stata-graphs**[60]

R

- **ggplot2, by Hadley Wickham**[61]
  - **ggpubr**[62]: 'ggplot2' Based Publication Ready Plots
- **R resources from Nick Nick C. Huntington-Klein**[63]
- **Introduction to R for Stata Users**[64] and **R Tutorials (for non-programmers)**[65] and other resources by **Richard S. L. Blissett**[66]
- Blog **r-econometrics**[67]
- **Rdatasets**[68]: a collection of over 1300 datasets that were originally distributed alongside the statistical software environment R and some of its add-on packages by Vincent Arel-Bundock
- **R for Data Science**[69]
- **R Programming**[70] by Chiu Yu Ko
- **Data science for economists**[71] and **Big Data in Economics**[72] taught by Grant McDermott at the University of Oregon
- **conveRt to R: the short course**[73]
- **Introductory Statistics with R tidyverse**[74] by Fan Wang
- **R Workshops by Ariel Muldoon**[75]

- **Introduction to Data Science**[76]: Data Analysis and Prediction Algorithms with R by Rafael A. Irizarry
- **R Bootcamp**[77]
- **List of github repos with (possible) ggplot2 themes**[78]
- **R posts and resources from Rebecca Barter**[79]
- **Artwork on R and stats**[80] by @allison_horst
- **Crime by the Numbers**[81]
- **Applied R in the Classroom**[82]
- **Swirl**[83]
- **Data Visualization**[84]: Use R, ggplot2, and the principles of graphic design to create beautiful and truthful visualizations of data
- **R as GIS for Economists**[85] by Taro Mieno
- **Applied Economics with R**[86] by Hans H. Sievertsen

Package

- **R packages**[87] by Hadley Wickham and Jenny Bryan
- R packages for data science **Tidyverse**[88]
  - googlesheets4 is a package to work with Google Sheets from R
- **starbility**[89]: coefficient stability plots under combinations of controls by Aakaash Rao
- **slopes**[90]: calculation of longitudinal steepness of linear features
- **lecturenotes**[91]: R Markdown template for writing lecture notes and academic papers
- **modelsummary**[92] package helps you build tables to summarize your statistical models
- **nycdogs**[93]: data on all licensed dogs in New York city

Python

- **QuantEcon**[94]
  - **Lectures in Quantitative Economics with Python**[95]
  - **Quantitative Economics with Python**[96]
  - **Advanced Quantitative Economics with Python**[97]
  - ...

- **Computational Statistics in Python**[98]
- **Python for economists**[99] by Ewen Gallic
- **Computational Economics with Python**[100] by John Stachurski
- **Python Introduction**[101] and **Introduction to Python for Econometrics, Statistics and Data Analysis**[102] by Kevin Sheppard
- **Python for Economists**[103] by Alex Bell
- **PyEcon**[104]
- **Awesome Python**[105]: A curated list of awesome Python frameworks, libraries, software and resources
- **Web Scraping Guide (for absolute novices)**[106] by Namrata Narain
- **Web Data Scraping**[107]
- **Automate the Boring Stuff with Python**[108]
- **Web Scraping Resources by Matthew A. Kraft**[109]
- **Eye-tracking with Python and Pylink**[110]
- **Quantopian**[111]

LaTeX

- **The Not So Short Introduction to LATEX 2ε**[112] by Tobias Oetiker Hubert Partl, Irene Hyna and Elisabeth Schlegl
  - early version **in Chinese**[113]
- **LaTeX in 24 Hours: A Practical Guide for Scientific Writing**[114] by Dilip Datta
- **Formatting information**[115]: A beginner's introduction to typesetting with LATEX
- **LATEX Tutorials A PRIMER**[116]
- **Learn LaTeX in 30 minutes**[117]
- **LATEX for Beginners**[118]
- **LaTeX Beginner's Guide**[119]
- **Introduction to LATEX**[120] slides by Megan Belzner
- **Introduction to LaTeX**[121] slides by David Reid

- **LaTex intro**[122] by Chiu Yu Ko
- **Introduction to LATEX: Writing papers the right way**[123]
- **简单粗暴 LATEX**[124] by K.L Wu
- **LaTeX Wikibooks**[125]
- **AEA Templates for Native Files**[126]
- **Writing and LATEX Tips for Ph.D. Students**[127]
- **The Comprehensive LATEX Symbol List**[128]
- **TEXnique**[129]: A LaTeX Typesetting Game
- **Latex Code Examples for Papers**[130] by Fan Wang
- **LaTeX resources**[131] by Martin Osborne

Package

- **minted**[132]: highlighted source code for LaTeX
- **replicate a cover letter template with the names of different institutions**[133]
- **beamerappendixnote**[134] puts extra content on an appendix slide and automatically inserts interactive buttons to go to the appendix and back

Beamer

- **The beamer class User Guide for version 3.59**[135]
- **Beamer v3.0 Guide slides**[136] by Ki-Joo Kim (a.k.a. Daisyweb) and **notes in chinese**[137]
- **Tips+Tricks with Beamer for Economists**[138] by Paul Goldsmith-Pinkham
- **Fun with Beamer An Epic Quest To Create the Perfect Presentation**[139] by Prathik Naidu and Adam Pahlavan
- **使用 Beamer 制作学术讲稿**[140] by Ethan D and **video**[141]
- **Beamer Theme gallery**[142] and **Theme Matrix**[143]
- **BEAMER appearance cheat sheet**[144]
- **Introduction to Latex – Beamer slides**[145] by Stelios Vrachimis, Alexis Kyriacou
- **Narrow Beamer Blocks**[146]

Graph

- **TikZ**[147]
  - **TikZiT**[148]: a super simple GUI editor for graphs and string diagrams
  - **TikZ and PGF Resources**[149]
- [Tiling in LaTeX](https://www.ucl.ac.uk/~zctpep9/Tiling instruction - 60 degree projection.pdf "Tiling in LaTeX")
- **Graphical Models for Causal Inference using LaTeX**[150]
- **Tables Generator**[151]
- **shinyDAG**[152]:create, visualize, and analyze causal diagrams

参考资料

[1] Code and Data for the Social Sciences: A Practitioner's Guide: https://web.stanford.edu/~gentzkow/research/CodeAndData.pdf

[2] Unofficial guidance on various topics by the AEA Data Editor: https://aeadataeditor.github.io/aea-de-guidance/

[3] Coolors: a color schemes generator: https://coolors.co/

[4] Client-Side Web Development: https://info340.github.io/

[5] Diffchecker: https://www.diffchecker.com/

[6] WebPlotDigitizer: https://automeris.io/WebPlotDigitizer

[7] Replication-Folder Template: https://github.com/pavelsolis/Replication-Folder

[8] Markdown Cheetsheet: https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet

[9] Geogbra: https://www.geogebra.org/

[10] Mathpix Snip: https://mathpix.com/

[11] MyScript: https://webdemo.myscript.com/views/math/index.html

[12] Mathcha: https://www.mathcha.io/

[13] UCLA: https://stats.idre.ucla.edu/stata/

[14] Princeton: https://dss.princeton.edu/training/

[15] LSE: https://www.lse.ac.uk/Methodology/Software-tutorials/Stata-tutorials

[16] basic Stata techniques: https://www.stata-journal.com/sjpdf.html?articlenum=dm0055

[17] Fundamentals of data analysis and visualization: https://geocenter.github.io/StataTraining/

[18] Introduction to Stata: http://personal.lse.ac.uk/lembcke/ecStata/2009/MResStataNotesJan2009PartA.pdf

[19] Advanced Stata Topics: http://personal.lse.ac.uk/lembcke/ecStata/2009/MResStataNotesFeb2009PartB.pdf

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[21] Introduction to STATA: https://www3.nd.edu/~wevans1/ecoe60303/stata.htm

[22] Introduction to Stata slides: http://fmwww.bc.edu/GStat/docs/StataIntro.pdf

[23] Economics Lesson with Stata: https://datacarpentry.org/stata-economics/index.html

[24] Data Management & Applied Data Analysis with Stata: https://people.umass.edu/biostat690c/index.html

[25] Useful websites for Stata users collected by Masayuki Kudamatsu: http://sites.google.com/site/mkudamatsu/stata

[26] StataTeX Blog: https://roastata.wordpress.com/

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[29] Stata4Econ: https://github.com/fanwangecon/Stata4Econ

[30] 12+ ways to name and label variables in Stata: https://sites.google.com/site/imirkina/cookbook-stata/12-ways-to-name-and-label-variables-in-stata

[31] the cookbook of stata and r: https://sites.google.com/site/imirkina/cookbook-stata

[32] Five small things I've learned recently: https://blogs.worldbank.org/impactevaluations/five-small-things-i-ve-learned-recently

[33] Stata Tips by Jan Kabátek: https://twitter.com/JanKabatek/status/1316245445341929473

[34] more tips on big data: https://twitter.com/JanKabatek/status/1303209197576663040

[35] recorder: https://twitter.com/JanKabatek/status/1295970998999584768

[36] Angrist's Data and Do file: http://economics.mit.edu/faculty/angrist/data1

[37] ietoolkit: https://blogs.worldbank.org/impactevaluations/category/tags/stata-commands

[38] Publication quality tables in Stata: a tutorial for the tabout program: http://www.ianwatson.com.au/stata/tabout_tutorial.pdf

[39] Export Stata Output to Latex: https://namratanarain.com/blog/2018/08/13/stata-latex

[40] ettests: https://github.com/jshrader/ettests

[41] estout: http://repec.sowi.unibe.ch/stata/estout/index.html

[42] est2tex: https://econweb.ucsd.edu/muendler/docs/stata/est2tex.html

[43] regsave: https://github.com/reifjulian/regsave

[44] texsave: https://github.com/reifjulian/texsave

[45] RD related packages: https://rdpackages.github.io/rdrobust/

[46] test: https://eml.berkeley.edu/~jmccrary/DCdensity/

[47] baselinetable: https://www.stata-journal.com/article.html?article=st0524

[48] Binscatter and more: https://michaelstepner.com/software/

[49] markdoc: https://github.com/haghish/markdoc

[50] Supervised learning algorithms in Stata: https://github.com/mdroste/stata-pylearn#overview

[51] strcompress: https://github.com/lukestein/strcompress

[52] Loops with progress bars: https://acarril.github.io/posts/progess-bar

[53] speccurve: https://github.com/martin-andresen/speccurve

[54] Stata code for genderizing names using genderize.io api: https://gist.github.com/lukestein/ff4eedf76801360ca0428fc3a7924a9b

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[56] demo: https://github.com/bbdaniels/stata-tables/blob/master/LaTeX-tables-demo.pdf

[57] Corresponding code/script for graphs: https://www.surveydesign.com.au/tipsgraphs.html

[58] Graph workflow: https://graphworkflow.com/

[59] Stata trick: recover the underlying data needed to draw a particular graph from a .gph file: https://www.st

ata.com/statalist/archive/2013-12/msg00779.html

[60] uncluttered-stata-graphs: http://gray.kimbrough.info/uncluttered-stata-graphs/

[61] ggplot2, by Hadley Wickham: https://ggplot2.tidyverse.org/

[62] ggpubr: https://github.com/kassambara/ggpubr

[63] R resources from Nick Nick C. Huntington-Klein: http://nickchk.com/econometrics.html

[64] Introduction to R for Stata Users: https://rslbliss.shinyapps.io/R_from_Stata/

[65] R Tutorials (for non-programmers): https://rpubs.com/rslbliss/r_intro_ws

[66] Richard S. L. Blissett: http://rslblissett.com/resources/

[67] r-econometrics: https://www.r-econometrics.com/

[68] Rdatasets: https://vincentarelbundock.github.io/Rdatasets/

[69] R for Data Science: https://r4ds.had.co.nz/

[70] R Programming: https://kochiuyu.github.io/programming/r-programming/

[71] Data science for economists: https://github.com/uo-ec607/lectures#data-science-for-economists

[72] Big Data in Economics: https://github.com/uo-ec510-2020-spring/lectures#big-data-in-economics-ec-410510

[73] conveRt to R: the short course: http://chrishanretty.co.uk/conveRt/#1

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[75] R Workshops by Ariel Muldoon: https://ariel.rbind.io/#workshops

[76] Introduction to Data Science: https://rafalab.github.io/dsbook/

[77] R Bootcamp: https://r-bootcamp.netlify.com/

[78] List of github repos with (possible) ggplot2 themes: https://github.com/jmcastagnetto/ggplot2_themes_in_github

[79] R posts and resources from Rebecca Barter: http://www.rebeccabarter.com/categories/r/

[80] Artwork on R and stats: https://github.com/allisonhorst/stats-illustrations

[81] Crime by the Numbers: https://crimebythenumbers.com/index.html

[82] Applied R in the Classroom: https://github.com/CerebralMastication/r_for_the_student/blob/master/r_for_the_student_2019-11-10.pdf

[83] Swirl: https://swirlstats.com/

[84] Data Visualization: https://datavizm20.classes.andrewheiss.com/

[85] R as GIS for Economists: https://tmieno2.github.io/R-as-GIS-for-Economists/

[86] Applied Economics with R: https://hhsievertsen.github.io/applied_econ_with_r/

[87] R packages: https://r-pkgs.org/

[88] Tidyverse: https://www.tidyverse.org/

[89] starbility: https://github.com/AakaashRao/starbility

[90] slopes: https://github.com/ITSLeeds/slopes

[91] lecturenotes: https://github.com/grantmcdermott/lecturenotes#an-r-markdown-template-for-writing-lecture-notes-and-academic-papers

[92] modelsummary: https://vincentarelbundock.github.io/modelsummary/

[93] nycdogs: https://kjhealy.github.io/nycdogs/

[94]

QuantEcon: https://quantecon.org/

[95] Lectures in Quantitative Economics with Python: https://delong.typepad.com/files/quantitative-economics-with-python.pdf

[96] Quantitative Economics with Python: https://python.quantecon.org/_downloads/pdf/quantitative_economics_with_python.pdf

[97] Advanced Quantitative Economics with Python: https://python-advanced.quantecon.org/_downloads/pdf/advanced_quantitative_economics_with_python.pdf

[98] Computational Statistics in Python: https://people.duke.edu/~ccc14/sta-663/index.html#

[99] Python for economists: http://egallic.fr/Enseignement/Python/en/_main.pdf

[100] Computational Economics with Python: https://github.com/QuantEcon/columbia_mini_course

[101] Python Introduction: https://www.kevinsheppard.com/teaching/python/course/

[102] Introduction to Python for Econometrics, Statistics and Data Analysis: https://www.kevinsheppard.com/files/teaching/python/notes/python_introduction_2020.pdf

[103] Python for Economists: https://scholar.harvard.edu/files/ambell/files/python_for_economists.pdf

[104] PyEcon: https://pyecon.org/

[105] Awesome Python: https://github.com/sindresorhus/awesome

[106] Web Scraping Guide (for absolute novices): https://namratanarain.com/blog/2018/08/06/nn-scrapingguide

[107] Web Data Scraping: https://github.com/CU-ITSS/Web-Data-Scraping-S2019

[108] Automate the Boring Stuff with Python: https://automatetheboringstuff.com/

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[110] Eye-tracking with Python and Pylink: https://github.com/zhiguo-eyelab/Pylink_book

[111] Quantopian: https://www.quantopian.com/home

[112] The Not So Short Introduction to LATEX 2ε: https://tobi.oetiker.ch/lshort/lshort.pdf

[113] in Chinese: https://mirrors.aliyun.com/CTAN/info/lshort/chinese/lshort-zh-cn.pdf

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aatoda111/file-cabinet/latextips.pdf?attachauth=ANoY7cpnsZrKj4mCs3c8OBB-nOjJm-5HxHj7tndU-xamiDCp5spgDZXL8OCEZNYI-esvYxn_dHxqx1AgGK_odBdNmclK4YYAskcgzekkDTReLNOPKXOQu2qwWbu2jSX1y0Y-A5ehzw9wPikMITSq8ZNoTUC32xyZ42LuJqrYeqsS8yR6jzjdWf4KUZ4SmHTH-kACCEcdNO9YFQXYuHaR53mlicNysQ2Lpj0zbGI6O22ESSiVO7Zi2iA%3D&attredirects=0

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[129] TEXnique: https://texnique.xyz/

[130] Latex Code Examples for Papers: https://fanwangecon.github.io/Tex4Econ/

[131] LaTeX resources: https://www.economics.utoronto.ca/osborne/

[132] minted: https://github.com/gpoore/minted

[133] replicate a cover letter template with the names of different institutions: https://github.com/ocamp020/JMP_Cover_Letter

[134] beamerappendixnote: https://ctan.org/pkg/beamerappendixnote

[135] The beamer class User Guide for version 3.59: http://tug.ctan.org/macros/latex/contrib/beamer/doc/beameruserguide.pdf

[136] Beamer v3.0 Guide slides: http://saikat.guha.cc/ref/beamer_guide.pdf

[137] notes in chinese: http://static.latexstudio.net/article/2019/0623/beamer_guide-zh-cn-byl00l.pdf

[138] Tips+Tricks with Beamer for Economists: https://github.com/paulgp/beamer-tips/blob/master/slides.pdf

[139] Fun with Beamer An Epic Quest To Create the Perfect Presentation: http://web.mit.edu/rsi/www/pdfs/beamer-tutorial.pdf

[140] 使用 Beamer 制作学术讲稿: https://ddswhu.me/resource/LaTeX/beamer_tutorial_2015.pdf

[141] video: https://www.bilibili.com/video/av330166910/

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[143] Theme Matrix: https://hartwork.org/beamer-theme-matrix/

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[146] Narrow Beamer Blocks: jasonhartline.com/onelineblock.tex

[147] TikZ: https://kochiuyu.github.io/programming/tikz/

[148] TikZiT: https://tikzit.github.io/

[149] TikZ and PGF Resources: https://texample.net/tikz/resources/

[150] Graphical Models for Causal Inference using LaTeX: https://github.com/eleanormurray/causalgraphs_latex

[151] Tables Generator: https://www.tablesgenerator.com/

[152] shinyDAG: https://apps.gerkelab.com/shinyDAG/

回归系数与预期相反时, 我们能够采取的方法和思路有哪些?

计量经济圈

国务院发展研究中心是个神奇的地方

泽平宏观