

9

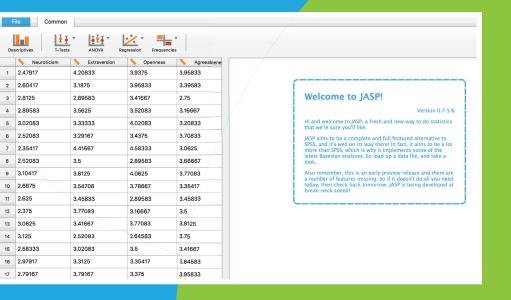
- Free!
- Open-source
- User-friendly
- Ideal for students



What is JASP?

JASP is a fresh way to do statistics. Completely free, open-source, and cross-platform, JASP allows its users to conduct statistical analyses with ease, using a spreadsheet layout and a familiar drag-and-drop interface.

JASP features popular classical analysis tools such as ANOVA and regression, but also contains their Bayesian counterparts.



Where can I find JASP?

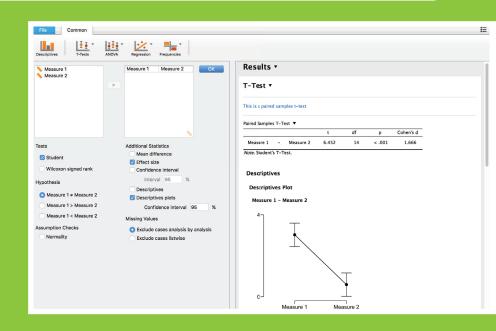
JASP can be freely downloaded at www.jasp-stats.org.

JASP is available for Windows, Mac, and Linux. The

website also contains a demo of JASP in action.

Why use JASP?

JASP offers many advantages over popular competing packages. Compared to commercial packages such as SPSS, JASP is free, open-source, actively developed, and includes Bayesian methods for parameter estimation and hypothesis testing. Compared to free packages such as R, JASP offers a smooth "drag and drop" user experience that removes the requirement of computer programming that many students and practitioners experience as burdensome and distracting. Compared to all other packages, the JASP base package offers a targeted and popular series of tests, both in their classical and Bayesian manifestations.





Why does JASP feature both classical and Bayesian analyses?

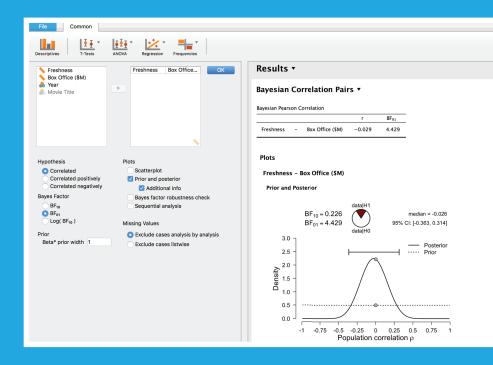
A Bayesian analysis describes how an optimal observer learns from experience. The optimal observer makes predictions about the world, pits these predictions against reality, and uses the resulting prediction errors to govern a coherent update of knowledge. In statistics, the Bayesian predict-observe-update cycle can be used both for hypothesis testing and for parameter estimation.

The Bayesian framework can address questions that fall outside the purview of the classical framework. In contrast to a p-value, a Bayes factor hypothesis test can quantify evidence. Monitoring the evidential flow makes tests ethical and efficient. In contrast to classical confidence intervals, Bayesian credible intervals take into account background information and allow for an intuitive interpretation.

"Bayesian data analysis was never easier"

Ioannis Ntzoufras

Despite the conceptual advantages of the Bayesian framework, modern statistical practice is enriched by contributions from Bayesian and classical statisticians. For this reason JASP provides both types of analysis, thereby facilitating inclusive statistical reporting and a better understanding of what each statistical paradigm has to offer.





What makes the JASP interface unique?

The JASP graphical user interface is based on modern design principles. Together, these principles create a pleasant and intuitive working environment:

- JASP provides the user with immediate feedback.
- JASP dynamically updates the results when the input changes.
- JASP initially provides minimalist output, preventing confusion.
- JASP uses progressive disclosure, producing increasingly complex output upon demand.
- JASP facilitates transparent reporting by connecting output to input without the need for explicit syntax.
- JASP produces tables and figures that are accessible, informative, and attractive.

How can I use JASP for teaching?

JASP is in a state of constant refinement and accelerated growth. Analyses, plots, and dedicated help tools that are not currently implemented may well be available in the next release. Nevertheless, the core functionality stands, and in its present form JASP is ready for use in standard statistics courses as a replacement or supplement to programs such as SPSS or R.

In the near future, **JASP** will come bundled with a series of course materials containing concrete examples and explanations. The **JASP** YouTube channel features a series of educational videos that provide an impression of how **JASP** may be used in teaching. In our experience, students greatly appreciate a free and user-friendly alternative for their statistical analyses.

"JASP: tomorrow's statistics software, today"



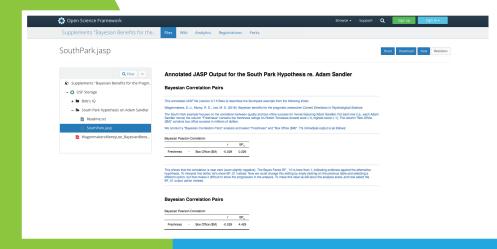
How can I interface JASP with the Open Science Framework?

The Open Science Framework (OSF) has a JASP previewer, which allows anybody to inspect JASP output on the OSF, even without having JASP installed. Together with the opportunity to add annotations, the JASP previewer facilitates transparent reporting, effective teaching, and efficient communication with co-authors.

Moreover, JASP allows its users to log in to their OSF accounts and upload, download, and sync files. We have used this functionality for teaching; through the JASP-OSF interface, students can conduct analyses, receive feedback, and revise their reports.

"JASP and OSF are like an original result and its replication - they are beautiful together."

Brian Nosek



How can I use JASP for research?

JASP can be used for research just like one would use SPSS and R. We are completing a series of invited peer-reviewed articles that outline the main philosophy and basic functionality of JASP, and these articles may be cited whenever JASP is used for research. The current citation for the package itself is:

The JASP Team (2017). JASP (Version 0.8.1.0)[Computer software]. https://jasp-stats.org/.



How do I use JASP for business?

Companies may benefit from JASP in several ways. First, JASP has a graphical user interface that is easy to navigate, and this greatly facilitates statistical communication and consulting. Second, JASP can be customized with add-on modules to present statistical tools available for specific clients only. Third, the Bayesian analyses implemented in JASP can be directly combined with utilities to calculate the business decision with the largest expected payoff. Fourth, JASP offers technical support at a lower cost than that charged by for-profit organizations such as IBM.

For details on how to use **JASP** for business, please Email **services@jasp-stats.org.**

Who created JASP?

The development of **JASP** is an ongoing team effort made possible by an ERC grant from the European Union, a Vici grant from the Netherlands Organisation for Scientific Research, and permanent support from the University of Amsterdam. Current team members include:



Bruno Boutin



rans Meerhoff



uentin F. Gronau



Akash Raj



Patrick Knight



n de Jong



Alexandra Sarafoglou



lelen Steingröver



Johnny van Doo



Maarten Marsman



Jasper Naberma



Erik-Jan van Kesterer



Herbert Hojitin



Dora Matzke



Sacha Epskamp



Joris Mulder



Alex Alvarez Perez



Xin Gu



Don van den Bergh



Alexander Eta



Alexander I v



Richard D. Morey



ric-Jan Wagenmakers

Want to know more about JASP?

Each year in August, the JASP team organizes the Amsterdam workshop on Bayesian statistical inference. More information about the workshops is available on www.jasp-stats.org/workshop.

- Download JASP at: jasp-stats.org
- git Source code available at: github.com/jasp-stats
- Follow JASP on twitter:
 @JASPStats

