

> Build customized functionality and procedures in R or Python

PASW Statistics Developer is a new product from SPSS Inc. that allows R and Python programmers to “wrap” procedures in PASW® Statistics* syntax so that they can be accessible to a wider range of users.

PASW Statistics Developer includes all of the core functionality found in every PASW Statistics module – crucially, the data access and management capabilities, programmability options, Custom Dialog Builder feature, and report creation, charting and deployment functionality – except for the analytical procedures that the modules contain.

It provides a low-cost option for programmers who need the power of PASW Statistics to support the functionality they create with R and Python.

R is increasingly popular for advanced statistics. It is very flexible, and provides fine control over the way functions are executed. However, it is complex and can be difficult to learn, and, because it requires data to be held in memory, cannot easily be used with large datasets. Python programmers face similar challenges.

PASW Statistics Developer allows R and Python users to overcome the limitations of these languages in an environment that also features robust data access, management, preparation and reporting tools.

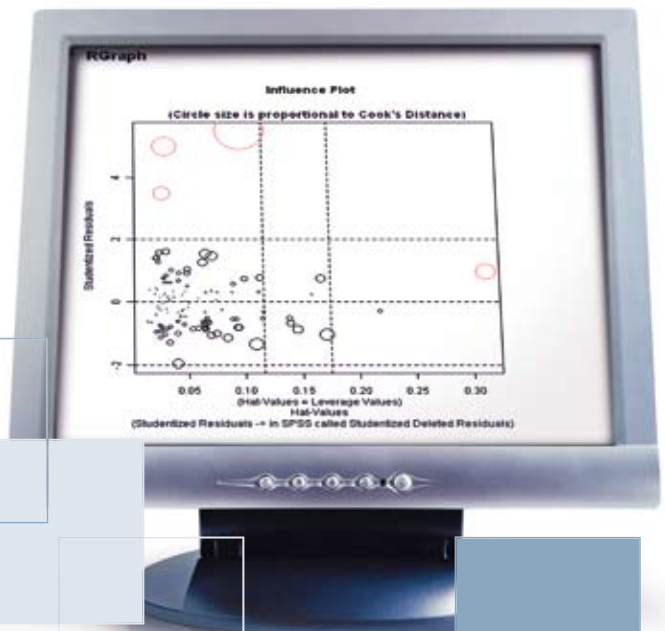
** PASWStatistics, formerly called SPSS Statistics, is part of SPSS Inc.'s Predictive Analytics Software portfolio.*

Wrap and deploy customized functionality

PASW Statistics provides a complete framework into which users can place customized features and algorithms built using R and/or Python – either for their own use or for deployment to users of any PASW Statistics module.

With PASW Statistics Developer, any R package can be easily wrapped in PASW Statistics syntax so that it takes on the appearance of a standard PASW Statistics procedure – which can then easily be invoked through PASW Statistics. And it can be given a dialog box interface that makes it indistinguishable from PASW Statistics' built-in dialogs. Furthermore, R packages can produce standard pivot tables in the style of PASW Statistics.

Through the Custom Dialog feature, advanced users can quickly share highly customized work with any user of any PASW Statistics module, complete with a user interface that can be as complex or simple as they like.



This shields users from the complexities of R, and instead lets them work in PASW Statistics' familiar graphical interface. They can also take advantage of the superior data management, graphical and output functionality built into PASW Statistics.

PASW Statistics Developer and R

PASW Statistics Developer is *not* a commercial implementation of the R language, which remains free and can be downloaded without charge from www.r-project.org. Rather, it is a modestly priced program for wrapping R functions and packages in a format that allows them to run cleanly and efficiently in PASW Statistics.

Available in 10 languages, PASW Statistics Developer has been specially created for people who wish to create particular analytical functionality using the R and/or Python programming languages – but in an easy-to-use format that can be distributed for use by a wider audience.

There is a simple, effective upgrade path to the full version of PASW Statistics. For more information about programmability, please visit www.spss.com/devcentral.

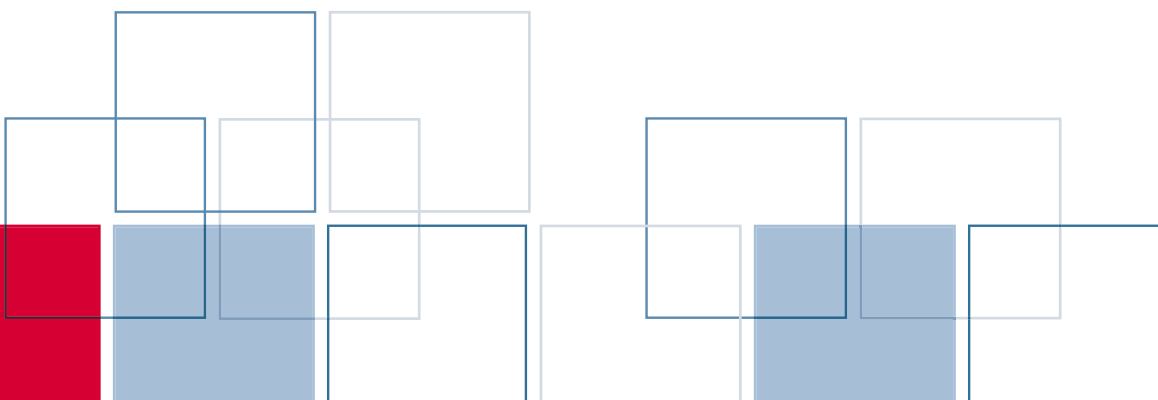
A perfect platform for unique solutions

PASW Statistics Developer is a perfect solution for users who wish to integrate R packages into a mature, highly functional GUI-based environment. It also simplifies teaching advanced statistics to students – eliminating the need for them to grapple with the complexities of R.

PASW Statistics Developer offers a number of important advantages for R programmers:

- Simple and easy to learn how to wrap R packages and algorithms – an excellent tutorial is included
- Easy to distribute via Web download or, even more easily, by e-mail
- Custom Dialog Builder allows programmers to create specific interfaces that simplify users' access to the functionality they have provided
- Make their skills and expertise available to a far wider range of users in both academic and commercial worlds

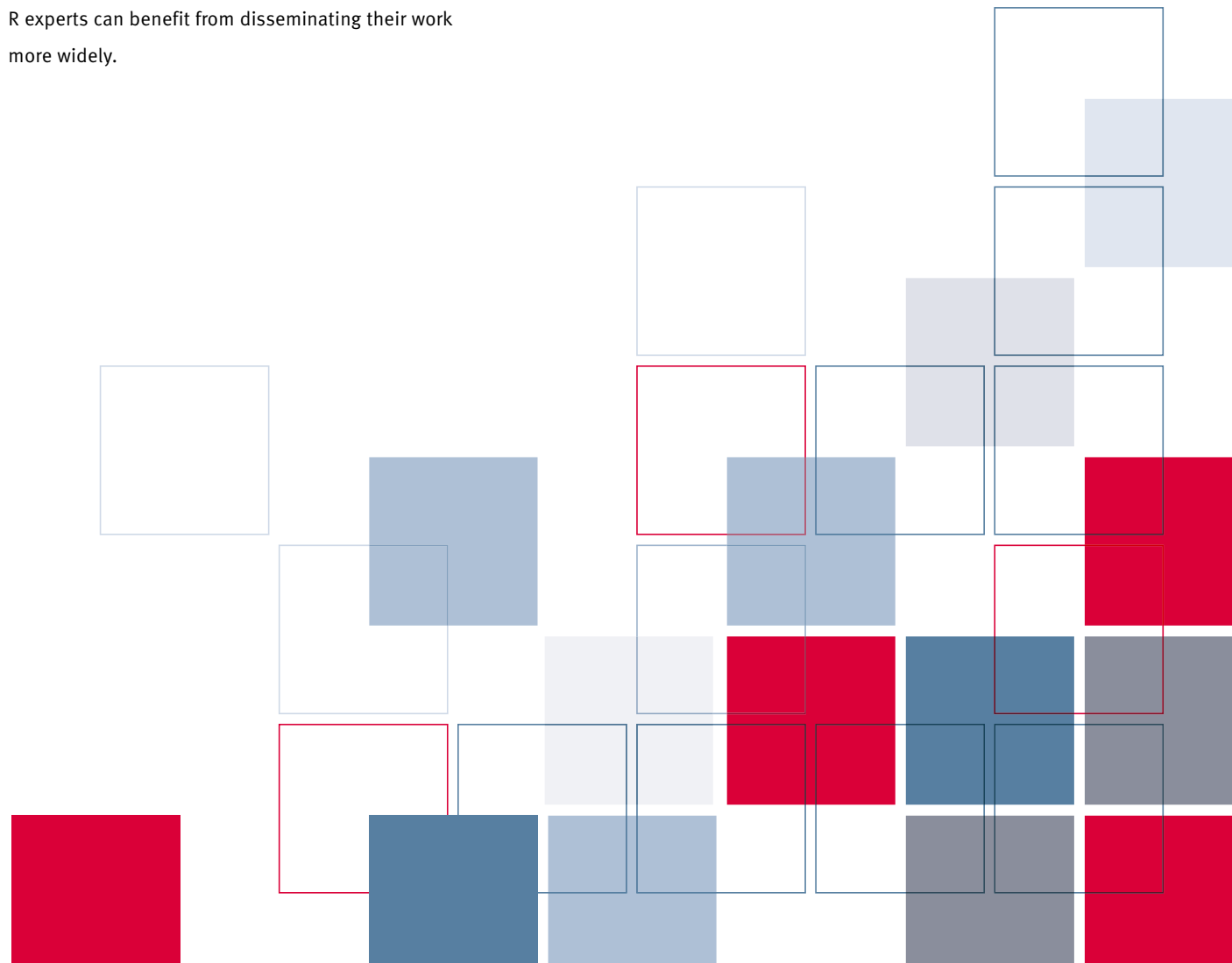
Over time, R programmers will increasingly choose to wrap R packages for PASW Statistics so that a wider range of users will be able to take advantage of those specialized functions.



The benefits to PASW Statistics users include:

- Access to thousands of advanced algorithms and R packages
- Easy to install – just point PASW Statistics at the wrapped package and it installs automatically
- Easy to use – packages are invoked through the standard PASW Statistics interface or, for more advanced users, through PASW Statistics syntax
- Runs in the familiar PASW Statistics environment, which provides:
 - Full access to PASW Statistics data handling functions
 - The ability to work with larger datasets – no in-memory limitations
 - Efficient production of more graphs and other forms of output

With PASW Statistics Developer, students, analysts, researchers and non-statisticians can avoid the language's weaknesses while retaining its many strengths, and R experts can benefit from disseminating their work more widely.



New, flexible implementation options

Every member of the PASW Statistics family, including PASW Statistics Developer, can now be installed and run independently. PASW Statistics Base is no longer required in every case, since core capabilities such as data access and management and charting are included in every family member. This gives you greater flexibility in how you install and use this versatile software. However, PASW Statistics Base** will continue to form the basis of many deployments, because it provides statistical tests and procedures that are fundamental to many analyses.

***PASWStatistics Base, formerly called SPSS Statistics Base, is part of SPSS Inc.'s Predictive Analytics Software portfolio.*

Gain greater value with collaboration

To share and efficiently distribute assets such as wrapped R packages, protect them in ways that meet internal and external compliance requirements and publish results so that a greater number of business users can view and interact with them, consider augmenting PASW Statistics Developer with PASW® Collaboration and Deployment services (formerly SPSS Predictive Enterprise Services™). More information about these valuable capabilities can be found at www.spss.com/software/deployment/cds.

System requirements

Requirements vary according to platform. For details, see www.spss.com/statistics.



To learn more, please visit www.spss.com.
For SPSS Inc. office locations and telephone numbers, go to www.spss.com/worldwide.

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