

Installation Software

RStudio – Rcommander - gpower

Installation von R Studio

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RStudio is now Posit, our mission continues

At Posit, our goal is to make data science more open, intuitive, accessible, and collaborative. We provide tools that make it easy for individuals, teams, and enterprises to leverage powerful analytics and gain insights they need to make a lasting impact.



RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Project: (None)

Console Terminal Background Jobs

R 4.2.1 · ~/

R version 4.2.1 (2022-06-23 ucrt) -- "Funny-Looking Kid"
Copyright (C) 2022 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

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'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> **install.packages("Rcmdr")**

Environment History Connections Tutorial

Version 1.6.0 of the `shiny` package is required to run tutorials for RStudio.

Please [click here](#) to update the `shiny` package.

The `learnr` package is required to run tutorials for RStudio.

Please [click here](#) to install the `learnr` package.

RStudio Tutorials powered by the `learnr` package.

Files Plots Packages Help Viewer Presentation

Install Update

Name	Description	Version
System Library		
<input type="checkbox"/> <code>abind</code>	Combine Multidimensional Arrays	1.4-5
<input type="checkbox"/> <code>AlgDesign</code>	Algorithmic Experimental Design	1.2.1
<input type="checkbox"/> <code>aplpack</code>	Another Plot Package: 'Bagplots', 'Iconplots', 'Summaryplots', Slider Functions and Others	1.3.5
<input type="checkbox"/> <code>arm</code>	Data Analysis Using Regression and Multilevel/Hierarchical Models	1.13-1
<input type="checkbox"/> <code>backports</code>	Reimplementations of Functions Introduced Since R-3.0.0	1.4.1
<input checked="" type="checkbox"/> <code>base</code>	The R Base Package	4.2.1
<input type="checkbox"/> <code>base64enc</code>	Tools for base64 encoding	0.1-3
<input type="checkbox"/> <code>bit</code>	Classes and Methods for Fast Memory-Efficient Boolean Selections	4.0.4
<input type="checkbox"/> <code>bit64</code>	A S3 Class for Vectors of 64bit Integers	4.0.5
<input type="checkbox"/> <code>boot</code>	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-28
<input type="checkbox"/> <code>brio</code>	Basic R Input Output	1.1.3
<input type="checkbox"/> <code>broom</code>	Convert Statistical Objects into Tidy Tibbles	1.0.1
<input type="checkbox"/> <code>bslib</code>	Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'	0.4.0
<input type="checkbox"/> <code>cachem</code>	Cache R Objects with Automatic Pruning	1.0.6
<input type="checkbox"/> <code>callr</code>	Call R from R	3.7.2
<input type="checkbox"/> <code>car</code>	Companion to Applied Regression	3.1-0
<input type="checkbox"/> <code>carData</code>	Companion to Applied Regression Data Sets	3.0-5
<input type="checkbox"/> <code>cellranger</code>	Translate Spreadsheet Cell Ranges to Rows and Columns	1.1.0
<input type="checkbox"/> <code>checkmate</code>	Fast and Versatile Argument Checks	2.1.0
<input type="checkbox"/> <code>class</code>	Functions for Classification	7.3-20
<input type="checkbox"/> <code>cli</code>	Helpers for Developing Command Line Interfaces	3.4.0
<input type="checkbox"/> <code>clipr</code>	Read and Write from the System Clipboard	0.8.0
<input type="checkbox"/> <code>cluster</code>	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.3
<input type="checkbox"/> <code>coda</code>	Output Analysis and Diagnostics for MCMC	0.19-4
<input type="checkbox"/> <code>codetools</code>	Code Analysis Tools for R	0.2-10

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> library(Rcmdr)|

EnvironmentHistoryConnectionsTutorial

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Please [click here](#) to update the shiny package.

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FilesPlotsPackagesHelpViewerPresentation

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<input type="checkbox"/> bit64	A S3 Class for Vectors of 64bit Integers	4.0.5
<input type="checkbox"/> boot	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-28
<input type="checkbox"/> brio	Basic R Input Output	1.1.3
<input type="checkbox"/> broom	Convert Statistical Objects into Tidy Tibbles	1.0.1
<input type="checkbox"/> bslib	Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'	0.4.0
<input type="checkbox"/> cachem	Cache R Objects with Automatic Pruning	1.0.6
<input type="checkbox"/> callr	Call R from R	3.7.2
<input type="checkbox"/> car	Companion to Applied Regression	3.1-0
<input type="checkbox"/> carData	Companion to Applied Regression Data Sets	3.0-5
<input type="checkbox"/> cellranger	Translate Spreadsheet Cell Ranges to Rows and Columns	1.1.0
<input type="checkbox"/> checkmate	Fast and Versatile Argument Checks	2.1.0
<input type="checkbox"/> class	Functions for Classification	7.3-20
<input type="checkbox"/> cli	Helpers for Developing Command Line Interfaces	3.4.0
<input type="checkbox"/> clipr	Read and Write from the System Clipboard	0.8.0
<input type="checkbox"/> cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.3
<input type="checkbox"/> coda	Output Analysis and Diagnostics for MCMC	0.19-4
<input type="checkbox"/> codetools	Code Analysis Tools for R	0.2-10

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```
> library(Rcmdr)
Lade nötiges Paket: splines
Lade nötiges Paket: RcmdrMisc
Lade nötiges Paket: car
Lade nötiges Paket: carData
Lade nötiges Paket: sandwich
Lade nötiges Paket: effects
lattice theme set by effectsTheme()
See ?effectsTheme for details.
RcmdrMsg: [1] HINWEIS: R Commander Version 2.8-0: Sun Jan 1 14:32:39 2023
RcmdrMsg: [2] HINWEIS: R Version 4.2.1
RcmdrMsg: [3] HINWEIS: Hello Alfa

Rcmdr Version 2.8-0

Attache Paket: 'Rcmdr'

Das folgende Objekt ist maskiert 'package:base':

  errorCondition

Warning message:
Paket 'Rcmdr' wurde unter R Version 4.2.2 erstellt
> |
```

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	Name	Description	Version	
<input type="checkbox"/>	quantmod	Quantitative Financial Modelling Framework	0.4.20	
<input type="checkbox"/>	quantreg	Quantile Regression	5.94	
<input type="checkbox"/>	R6	Encapsulated Classes with Reference Semantics	2.5.1	
<input type="checkbox"/>	rappdirs	Application Directories: Determine Where to Save Data, Caches, and Logs	0.3.3	
<input type="checkbox"/>	rbibutils	Read 'Bibtex' Files and Convert Between Bibliography Formats	2.2.9	
<input checked="" type="checkbox"/>	Rcmdr	R Commander	2.8-0	
<input checked="" type="checkbox"/>	RcmdrMisc	R Commander Miscellaneous Functions	2.7-2	
<input type="checkbox"/>	RcmdrPlugin.DoE	R Commander Plugin for (Industrial) Design of Experiments	0.12-4	
<input type="checkbox"/>	RcmdrPlugin.TeachingDe...	Rcmdr Teaching Demos Plug-in	1.2-0	
<input type="checkbox"/>	RcmdrPlugin.TeachStat	R Commander Plugin for Teaching Statistical Methods	1.1.1	
<input type="checkbox"/>	RColorBrewer	ColorBrewer Palettes	1.1-3	
<input type="checkbox"/>	Rcpp	Seamless R and C++ Integration	1.0.9	
<input type="checkbox"/>	RcppEigen	'Rcpp' Integration for the 'Eigen' Templated Linear Algebra Library	0.3.3.9.2	
<input type="checkbox"/>	Rdpack	Update and Manipulate Rd Documentation Objects	2.4	
<input type="checkbox"/>	readr	Read Rectangular Text Data	2.1.2	
<input type="checkbox"/>	readstata13	Import 'Stata' Data Files	0.10.0	
<input type="checkbox"/>	readxl	Read Excel Files	1.4.1	
<input type="checkbox"/>	relimp	Relative Contribution of Effects in a Regression Model	1.0-5	
<input type="checkbox"/>	rematch	Match Regular Expressions with a Nicier 'API'	1.0.1	
<input type="checkbox"/>	rematch2	Tidy Output from Regular Expression Matching	2.1.2	
<input type="checkbox"/>	remotes	R Package Installation from Remote Repositories, Including 'GitHub'	2.4.2	
<input type="checkbox"/>	rgl	3D Visualization Using OpenGL	0.109.6	
<input type="checkbox"/>	rlang	Functions for Base Types and Core R and 'Tidyverse' Features	1.0.5	
<input type="checkbox"/>	rmarkdown	Dynamic Documents for R	2.16	
<input type="checkbox"/>	rpart	Recursive Partitioning and Regression Trees	4.1.16	
<input type="checkbox"/>	rprojroot	Finding Files in Project Subdirectories	2.0.3	
<input type="checkbox"/>	rsample	Resampling for Model Development	0.4.0	



Installation gpower

<https://www.psychologie.hhu.de/arbeitsgruppen/allgemeine-psychologie-und-arbeitspsychologie/gpower>

To report possible bugs, difficulties in program handling, and suggestions for future versions of G*Power please [✉ send us an e-mail](#).

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🔗 [Download G*Power 3.1.9.7 for Windows XP, Vista, 7, 8, 10 and 11 \(about 20 MB\)](#). Please make sure to choose "unpack with folders" in your unzip tool.

🔗 [Download G*Power 3.1.9.6 for Mac OS X 10.7 to 13 \(about 2 MB\)](#).

Version History

17 March 2020 - Release 3.1.9.7

Windows

Changed the behavior of the "X-Y plot for a range of values" which allowed plotting graphs after changing input parameters in the main window without hitting the "Calculate" button which, however, is required to update the "X-Y plot for a range of values" with the new input parameters from the main dialog.



G*Power 3.1.9.7

File Edit View Tests Calculator Help

Central and noncentral distributions Protocol of power analyses

Test family: t tests

Statistical test: Correlation: Point biserial model

Type of power analysis: A priori: Compute required sample size – given α , power, and effect size

Input Parameters

Determine =>

	Tail(s)	One
Effect size $ \rho $		0.3
α err prob		0.05
Power ($1 - \beta$ err prob)		0.95

Output Parameters

Noncentrality parameter δ	?
Critical t	?
Df	?
Total sample size	?
Actual power	?

X-Y plot for a range of values

Calculate