

Using Lsmeans R

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~~Using Lsmeans R~~

~~November 3, 2018. Type Package Title Least-Squares Means Version 2.30-0 Date 2018-11-02 Depends emmeans (>= 1.3), methods, R (>= 3.2) Suggests ByteCompile yes Description Obtain least-squares means for linear, generalized linear, and mixed models. Compute contrasts or linear functions of least-squares means, and comparisons of slopes. Plots and compact letter displays.~~

~~Package 'lsmeans' — R~~

~~Calculates Least Squares Means and Confidence Intervals for the factors of a fixed part of mixed effects model of lmer object.~~

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Produces a data frame which resembles to what SAS software gives in proc mixed statement. The approximation of degrees of freedom is Satterthwate's. This is a deprecated function, use lsmeansLT function instead.

~~lsmeans function | R Documentation~~

R scripts that use lsmeans will still work with emmeans after making minor changes (use `emmeans:::convert_scripts()`). Existing objects created with lsmeans can be converted to work with the new package via `emmeans:::convert_workspace()`. See vignette ("`transition-from-lsmeans`", "`emmeans`") for more details.

~~lsmeans package | R Documentation~~

```
R> typing.lm = lm(pain ~ hours + type, data = typing) The least-
squares means resulting from this model are easily obtained by calling
lsmeans with the fitted model and a formula specifying the factor of
interest: R> library(lsmeans) R> lsmeans(typing.lm, ~ type) $'type
lsmeans' type lsmean SE df lower.CL upper.CL
```

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Using lsmeans Russell V. Lenth The University of Iowa November 4, 2017
Abstract Least-squares means are predictions from a linear model, or

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averages thereof. They are useful in the analysis of experimental data for summarizing the effects of factors, and for testing linear contrasts among predictions. The lsmeans package provides a simple way of obtaining

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Using lsmeans. Russell V. Lenth The University of Iowa September 23, 2014. Abstract Least-squares means are predictions from a linear model, or averages thereof. They are useful in the analysis of experimental data for summarizing the effects of factors, and for testing linear contrasts among predictions. The lsmeans package provides a simple way of obtaining least-squares means and contrasts thereof.

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Typically you should ignore the values of the LS means themselves (lsmeans) when using them with clm and clmm models. With default settings, the values of the LS means and the values of differences among the LS means are not easy to interpret.

~~R Handbook: Least Square Means for Multiple Comparisons~~

Provision in upcoming version of lsmeans The next update of lsmeans

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(2.20 or later) will include an rbind method for ref.grid and lsmobj objects. It makes it easy to combine two or ore objects into one family, and defaults to the "mvt" adjustment method. Here is the present example:

~~lsmeans (R): Adjust for multiple comparisons with ...~~

The bottom half of the code is using the lsmeans package to conduct the post-hoc comparison tests. Mauchly's Test of Sphericity. SPSS: R: Within- and Between-Subject Effects. SPSS: R: Post-hoc Comparisons. SPSS: R: Planned Comparisons. If you want to conduct planned-contrasts, you can do that using the lsmeans() package as well:

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For categorical variables, it is possible to calculate least squares means, also known as population marginal means or adjusted means .

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These can be thought of as the means for a hypothetical population with a certain distribution of the predictor variables. In the simplest case, with a single categorical predictor, the least squares means are simply the observed sample means for the categories.

~~Using and Understanding LSMEANS and LSMESTIMATE~~

This is easy to do using lsmeans: `lsmeans(logmixed_ranks[[i]], pairwise ~ rating_ranks | indicator_var, adjust = "tukey")` or `lsmeans(logmixed_ranks[[i]], pairwise ~ indicator_var | rating_ranks, adjust = "tukey")` By the way, if you use `adjust = "mvt"`, you will obtain exactly the same adjustments that `glht` uses for its single-step procedure.

~~R — R lsmeans adjust multiple comparison~~

Pairwise comparisons on lmer using lsmeans or difflsmeans. Ask Question Asked 2 years, 9 months ago. Active 1 year, 9 months ago. Viewed 3k times 2. I am doing a reading experiment, comparing reading times in 2 groups across 4 conditions. I ran a lmer model with reading condition (factor w 4 levels) and group (factor w 2 levels) as the ...

~~r — Pairwise comparisons on lmer using lsmeans or ...~~

Getting started with emmeans Package emmeans (formerly known as

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lsmeans) is enormously useful for folks wanting to do post hoc comparisons among groups after fitting a model.

~~Getting started with emmeans — Very statisticeious~~

lsmeans for contrasts and post-hoc tests. lsmeans is a package to test contrasts for many linear, generalized linear and mixed models. The cool thing: Since lately, both afex and lsmeans work smoothly together. Install packages. You obtain the latest version of afex (as well as lsmeans) from github:

```
devtools::install_github("singmann/afex@master")
```

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Rutgers, The State University of New Jersey You can use the output of the cld function as data frame. It gives you the ls means and the confidence intervals for each treatment combination. I have...

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Download Ebook Using Lsmeans R Using lsmeans Russell V. Lenth The University of Iowa November 4, 2017 Abstract Least-squares means are predictions from a linear model, or averages thereof. They are useful in the analysis of experimental data for summarizing the effects of factors, and for testing linear contrasts among predictions.

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How can I program correction for multiple comparisons using lsmeans in R while not correcting for more than necessary. 0. Lsmeans output for clmm models (R) 0. Problem with Tuckey correction for planned contrasts with emmeans and pairs() in R. 0. Confusing results from lsmeans and pairwise tests.

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