

# Package: plsmod (via r-universe)

October 4, 2024

**Title** Model Wrappers for Projection Methods

**Version** 1.0.0.9000

**Description** Bindings for additional regression models for use with the 'parsnip' package, including ordinary and sparse partial least squares models for regression and classification (Rohart et al (2017) <[doi:10.1371/journal.pcbi.1005752](https://doi.org/10.1371/journal.pcbi.1005752)>).

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**URL** <https://plsmod.tidymodels.org>,  
<https://github.com/tidymodels/plsmod>

**BugReports** <https://github.com/tidymodels/plsmod/issues>

**Depends** parsnip (>= 0.2.0), R (>= 3.4)

**Imports** dplyr, generics, magrittr, mixOmics, purrr, rlang, tibble, tidyr

**Suggests** rmarkdown, covr, modeldata, spelling, testthat (>= 3.0.0)

**biocViews** mixOmics

**Config/Needs/website** tidyverse/tidytemplate

**Config/testthat/edition** 3

**Encoding** UTF-8

**Language** en-US

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.2

**Repository** <https://tidymodels.r-universe.dev>

**RemoteUrl** <https://github.com/tidymodels/plsmod>

**RemoteRef** HEAD

**RemoteSha** e12746763659dadbd6d65dc53fc94beaba071953

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`multi_predict._mixo_pls`*Model predictions across many sub-models*

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**Description**

Model predictions across many sub-models

**Usage**

```
## S3 method for class '`_mixo_pls`'
multi_predict(object, new_data, num_comp = NULL, type = NULL, ...)

## S3 method for class '`_mixo_spls`'
multi_predict(object, new_data, num_comp = NULL, type = NULL, ...)

## S3 method for class '`_mixo_plsda`'
multi_predict(object, new_data, num_comp = NULL, type = NULL, ...)

## S3 method for class '`_mixo_splsda`'
multi_predict(object, new_data, num_comp = NULL, type = NULL, ...)
```

**Arguments**

<code>object</code>	An object of class <code>model_fit</code>
<code>new_data</code>	A rectangular data object, such as a data frame.
<code>num_comp</code>	An integer vector for the number of PLS terms to retain.
<code>type</code>	A single character value or <code>NULL</code> . Possible values are "numeric", "class", or "prob". When <code>NULL</code> , <code>predict()</code> will choose an appropriate value based on the model's mode.
<code>...</code>	Not currently used.

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`tidy.mixo_pls`*Tidy methods for pls and spls objects*

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**Description**

Tidy methods for pls and spls objects

**Usage**

```
## S3 method for class 'mixo_pls'  
tidy(x, ...)  
  
## S3 method for class 'mixo_spls'  
tidy(x, ...)
```

**Arguments**

x	An object with class <code>mixo_pls</code> or <code>mixo_spls</code> .
...	Not currently used.

**Value**

A tibble with columns `terms` (the predictor names), `value` (the loadings), `type` (either "predictors" or "outcomes"), and `component` (the component number).

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