

# Package ‘pivottea’

July 13, 2024

**Title** Create Pivot Table Easily

**Version** 1.0.2

**Description** Pivot easily by specifying rows, columns, values and split.

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**URL** <https://github.com/matutosi/pivottea>,  
<https://matutosi.github.io/pivottea/>

**LazyData** true

**Imports** dplyr, purrr, rlang, tidyr

**Suggests** ggplot2, knitr, rmarkdown, spelling, testthat (>= 3.0.0),  
tibble

**Config/testthat/edition** 3

**Language** en-US

**VignetteBuilder** knitr

**Depends** R (>= 2.10)

**NeedsCompilation** no

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**Repository** CRAN

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add_group_sub	<i>Add sub index within group</i>
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## Description

Add sub index within group

## Usage

```
add_group_sub(df, group, sep = "_", tmp_col = "tmp_col")
```

## Arguments

df	A dataframe.
group	A string or string vector. When vector, the first string will be used for adding sub index.
sep	A string for separator.
tmp_col	A string of colnames for temporary use.

## Value

A dataframe.

## Examples

```
library(dplyr)
add_group_sub(mtcars, c("am", "gear"))
add_group_sub(mtcars, c("cyl", "am"))
```

---

extract_col	<i>Helper for na_col_omit()</i>
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---

**Description**

Helper for na\_col\_omit()

**Usage**

```
extract_col(col, df)
```

**Arguments**

col	A string or string vector.
df	A dataframe.

**Value**

A vector.

**Examples**

```
library(tidyr)
library(dplyr)
library(purrr)
library(ggplot2)
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "teacher", "room"),
        split = c("house", "grade"))
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "room", "house", "grade"),
        split = c("teacher"))
starwars |>
  pivot(row = "homeworld", col = "species", value = "name", split = "sex")
msleep |>
  pivot(row = "vore", col = "conservation", value = "name") |>
  na2empty() |>
  print(n = Inf)
tibble::as_tibble(Titanic) |>
  pivot(row = "Age", col = c("Sex", "Survived"),
        value = "n", split = "Class")
diamonds |>
  pivot(row = "cut", col = "color", value = "price", split = "clarity")
```

---

has_col	<i>Detect if df has col</i>
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---

**Description**

Detect if df has col

**Usage**

```
has_col(df, col)
```

**Arguments**

df	A dataframe.
col	A string or string vector.

**Value**

A dataframe.

**Examples**

```
colnames(mtcars)
has_col(mtcars, c("mpg", "cyl"))
has_col(mtcars, c("mpg", "foo"))
```

---

hogwarts	<i>Timetable in Hogwarts School of Witchcraft and Wizardry.</i>
----------	---

---

**Description**

Timetable in Hogwarts School of Witchcraft and Wizardry.

**Usage**

```
hogwarts
```

**Format**

A data frame with 548 rows and 7 variable:

**grade** Grades in school.

**house** Houses. G: Gryffindor, S: Slytherin, R: Ravenclaw, and H: Hufflepuff.

**wday** Abbreviations of day of the week.

**hour** Hours.

**teacher** Teachers.

**subject** Subjects.

**room**

**Examples**

```
data(hogwarts)
hogwarts
```

---

```
na2empty           replace NA character into ""
```

---

**Description**

replace NA character into ""

**Usage**

```
na2empty(df)
```

**Arguments**

df                    A dataframe.

**Value**

A dataframe.

**Examples**

```
library(tidyr)
library(dplyr)
library(purrr)
library(ggplot2)
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "teacher", "room"),
        split = c("house", "grade"))
hogwarts |>
  pivot(row = "hour", col = "wday",
```

```

      value = c("subject", "room", "house", "grade"),
      split = c("teacher"))
starwars |>
  pivot(row = "homeworld", col = "species", value = "name", split = "sex")
msleep |>
  pivot(row = "vore", col = "conservation", value = "name") |>
  na2empty() |>
  print(n = Inf)
tibble::as_tibble(Titanic) |>
  pivot(row = "Age", col = c("Sex", "Survived"),
        value = "n", split = "Class")
diamonds |>
  pivot(row = "cut", col = "color", value = "price", split = "clarity")

```

---

omit\_na\_cols

*Remove all NA cols*


---

## Description

Remove all NA cols

## Usage

```
omit_na_cols(df)
```

## Arguments

df                    A dataframe.

## Value

A dataframe.

## Examples

```

library(tidyr)
library(dplyr)
library(purrr)
library(ggplot2)
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "teacher", "room"),
        split = c("house", "grade"))
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "room", "house", "grade"),
        split = c("teacher"))
starwars |>
  pivot(row = "homeworld", col = "species", value = "name", split = "sex")

```

```
msleep |>
  pivot(row = "vore", col = "conservation", value = "name") |>
  na2empty() |>
  print(n = Inf)
tibble::as_tibble(Titanic) |>
  pivot(row = "Age", col = c("Sex", "Survived"),
        value = "n", split = "Class")
diamonds |>
  pivot(row = "cut", col = "color", value = "price", split = "clarity")
```

---

omit\_na\_rows

*Remove all NA rows*

---

## Description

Remove all NA rows

## Usage

```
omit_na_rows(df)
```

## Arguments

df                    A dataframe.

## Value

A dataframe.

## Examples

```
library(tidyr)
library(dplyr)
library(purrr)
library(ggplot2)
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "teacher", "room"),
        split = c("house", "grade"))
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "room", "house", "grade"),
        split = c("teacher"))
starwars |>
  pivot(row = "homeworld", col = "species", value = "name", split = "sex")
msleep |>
  pivot(row = "vore", col = "conservation", value = "name") |>
  na2empty() |>
  print(n = Inf)
```

```
tibble::as_tibble(Titanic) |>
  pivot(row = "Age", col = c("Sex", "Survived"),
        value = "n", split = "Class")
diamonds |>
  pivot(row = "cut", col = "color", value = "price", split = "clarity")
```

---

pivot

*Pivot easily by specifying rows, columns, values and split.*

---

## Description

Pivot easily by specifying rows, columns, values and split.

## Usage

```
pivot(df, row, col, value, split = NULL, sep = "_", rm_empty_df = TRUE)
```

## Arguments

df	A dataframe.
row, value	A string or string vector.
col	A string or string vector.
split	A string or string vector.
sep	A string for separator.
rm_empty_df	A logical for removing empty df.

## Value

A dataframe.

## Examples

```
library(tidyr)
library(dplyr)
library(purrr)
library(ggplot2)
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "teacher", "room"),
        split = c("house", "grade"))
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "room", "house", "grade"),
        split = c("teacher"))
starwars |>
  pivot(row = "homeworld", col = "species", value = "name", split = "sex")
msleep |>
```



```
  pivot(row = "vore", col = "conservation", value = "name") |>
  na2empty() |>
  print(n = Inf)
tibble::as_tibble(Titanic) |>
  pivot(row = "Age", col = c("Sex", "Survived"),
        value = "n", split = "Class")
diamonds |>
  pivot(row = "cut", col = "color", value = "price", split = "clarity")
```

---

replace_col	<i>Replace a col with a data.frame.</i>
-------------	---

---

**Description**

Replace a col with a data.frame.

**Usage**

```
replace_col(df, replace)
```

**Arguments**

df, replace      A dataframe.

**Value**

A dataframe.

**Examples**

```
(state <- tibble::tibble(state = state.name, area = state.area))
(abb <- tibble::tibble(state = state.name, abb = state.abb))
replace_col(state, abb)
```

---

split_force	<i>Split by force with "" when split is NULL</i>
-------------	--

---

**Description**

Split by force with "" when split is NULL

**Usage**

```
split_force(df, split)
```

**Arguments**

`df` A dataframe.  
`split` A string or string vector.

**Value**

A dataframe.

**Examples**

```
split_force(mtcars, split = NULL)
split_force(mtcars, split = c("cyl"))
```

---

validate\_col

*Validate col*

---

**Description**

Validate col

**Usage**

```
validate_col(df, col)
```

**Arguments**

`df` A dataframe.  
`col` A string or string vector.

**Value**

A dataframe.

**Examples**

```
library(tidyr)
library(dplyr)
library(purrr)
library(ggplot2)
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "teacher", "room"),
        split = c("house", "grade"))
hogwarts |>
  pivot(row = "hour", col = "wday",
        value = c("subject", "room", "house", "grade"),
        split = c("teacher"))
```

```
starwars |>
  pivot(row = "homeworld", col = "species", value = "name", split = "sex")
msleep |>
  pivot(row = "vore", col = "conservation", value = "name") |>
  na2empty() |>
  print(n = Inf)
tibble::as_tibble(Titanic) |>
  pivot(row = "Age", col = c("Sex", "Survived"),
        value = "n", split = "Class")
diamonds |>
  pivot(row = "cut", col = "color", value = "price", split = "clarity")
```

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