practica_tidyr

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Usando el conjunto de datos starwars mediante la libreria tidyr

```
library(tidyr)
library(dplyr)
```

pivot_longer

```
rename(starwars, names = name )
```

```
## # A tibble: 87 x 14
##    names height  mass hair_color skin_color eye_color birth_year sex   gender
##    <chr>  <int> <dbl> <chr>      <chr>      <chr>          <dbl> <chr> <chr>
##  1 Luke~    172    77 blond      fair       blue            19   male  mascu~
##  2 C-3PO    167    75 <NA>       gold       yellow         112   none  mascu~
##  3 R2-D2     96    32 <NA>       white, bl~ red             33   none  mascu~
##  4 Dart~    202   136 none       white      yellow          41.9 male  mascu~
##  5 Leia~    150    49 brown      light      brown           19   fema~ femin~
##  6 Owen~    178   120 brown, gr~ light      blue            52   male  mascu~
##  7 Beru~    165    75 brown      light      blue            47   fema~ femin~
##  8 R5-D4     97    32 <NA>       white, red red             NA   none  mascu~
##  9 Bigg~    183    84 black      light      brown           24   male  mascu~
## 10 Obi-~    182    77 auburn, w~ fair       blue-gray       57   male  mascu~
## # ... with 77 more rows, and 5 more variables: homeworld <chr>, species <chr>,
## #   films <list>, vehicles <list>, starships <list>
```

```
starwars %>%
  pivot_longer(cols = c("hair_color", "skin_color"),
               names_to = "body",
               values_to = "caracteristica")
```

```
## # A tibble: 174 x 14
##    name  height  mass eye_color birth_year sex   gender homeworld species films
##    <chr>  <int> <dbl> <chr>          <dbl> <chr> <chr>  <chr>     <chr>   <lis>
##  1 Luke~    172    77 blue            19   male  mascu~ Tatooine  Human   <chr~
##  2 Luke~    172    77 blue            19   male  mascu~ Tatooine  Human   <chr~
##  3 C-3PO    167    75 yellow         112   none  mascu~ Tatooine  Droid   <chr~
##  4 C-3PO    167    75 yellow         112   none  mascu~ Tatooine  Droid   <chr~
##  5 R2-D2     96    32 red             33   none  mascu~ Naboo     Droid   <chr~
##  6 R2-D2     96    32 red             33   none  mascu~ Naboo     Droid   <chr~
##  7 Dart~    202   136 yellow          41.9 male  mascu~ Tatooine  Human   <chr~
##  8 Dart~    202   136 yellow          41.9 male  mascu~ Tatooine  Human   <chr~
##  9 Leia~    150    49 brown           19   fema~ femin~ Alderaan  Human   <chr~
## 10 Leia~    150    49 brown           19   fema~ femin~ Alderaan  Human   <chr~
```

```
## # ... with 164 more rows, and 4 more variables: vehicles <list>,
## #   starships <list>, body <chr>, caracteristica <chr>
```

```
#head(starwars)
```

replace_na

```
sum(is.na(starwars$mass))
```

```
## [1] 28
```

```
starwars$mass <- replace_na(starwars$mass,  0)
sum(is.na(starwars$mass))
```

```
## [1] 0
```

nest

```
starwars_nest <- starwars %>%
  group_by(species) %>%
  nest()
head(starwars_nest)
```

```
## # A tibble: 6 x 2
## # Groups:   species [6]
##   species        data
##   <chr>          <list>
## 1 Human          <tibble [35 x 13]>
## 2 Droid          <tibble [6 x 13]>
## 3 Wookiee        <tibble [2 x 13]>
## 4 Rodian         <tibble [1 x 13]>
## 5 Hutt           <tibble [1 x 13]>
## 6 Yoda's species <tibble [1 x 13]>
```

```
starwars_nest$data[[2]]
```

```
## # A tibble: 6 x 13
##   name  height  mass hair_color skin_color eye_color birth_year sex   gender
##   <chr>  <int> <dbl> <chr>      <chr>      <chr>          <dbl> <chr> <chr>
## 1 C-3PO    167    75 <NA>       gold       yellow           112 none  mascu~
## 2 R2-D2     96    32 <NA>       white, bl~ red               33 none  mascu~
## 3 R5-D4     97    32 <NA>       white, red red               NA none  mascu~
## 4 IG-88    200   140 none       metal      red               15 none  mascu~
## 5 R4-P~     96     0 none       silver, r~ red, blue         NA none  femin~
## 6 BB8       NA     0 none       none       black             NA none  mascu~
## # ... with 4 more variables: homeworld <chr>, films <list>, vehicles <list>,
## #   starships <list>
```