



### Base dataset

	V1	V2	V3
Ind. 1	5	0	3
Ind. 2	12	2	4

FactoMineR::descfreq

Row descriptions

isolate.groups: one prompt per group?

### Base prompt

# Introduction

{introduction}

# Task

{request}

# Data

{sentences from descfreq}

### Generated prompt

# Introduction

A survey was conducted about beards and 8 types of beards were described. In the data that follow, beards are named B1 to B8.

# Task

Please give a name to each beard and summarize what makes this beard unique.

# Data

## B1

\* Here are the categories that characterize the row B1 and whose frequency of use is significantly above average: "neat", "clean", "classic", "modern", "elegant", "confident", "Parisian bobo", "educated".

## B2

\* Here are the categories that characterize the row B2 and whose frequency of use is significantly above average: "young", "sporty", "charmer", "young adult", "seductive", "haughty", "fashion", "delinquent", "3 days", "3-day beard", "active".

\* Here are the modalities that characterize the row B2 and whose frequency of use is significantly below average: "old", "hipster".

### Additional parameters:

- **model**: the LLM model you want to use
- **by.quali**: a factor used to merge rows (see FactoMineR's descfreq)
- **proba**: the significance threshold (see FactoMineR's descfreq)
- **generate**: whether to generate the response or not



### # Introduction

A survey was conducted about beards and 8 types of beards were described. In the data that follow, beards are named B1 to B8.

### # Task

Please give a name to each beard and summarize what makes this beard unique.

### # Data

#### ## B1

\* Here are the words that characterize the row B1 and whose frequency of use is significantly above average: "neat", "clean", "classic", "modern", "elegant", "confident", "Parisian bobo", "educated".

#### ## B2

\* Here are the words that characterize the row B2 and whose frequency of use is significantly above average: "young", "sporty", "charmer", "young adult", "seductive", "haughty", "fashion", "delinquent", "3 days", "3-day beard", "active".

\* Here are the modalities that characterize the row B2 and whose frequency of use is significantly below average: "old", "hipster".

### The introduction

- Give context for the data
- Explain that the individuals are described by variables
- Do not hesitate to repeat important words several times

### The request

- Use clear words: explain, describe, summarize...
- Use the same words as in the introduction
- When there are multiple instructions, separate them into different sentences or with commas

### More tips

- Turn the **generate** parameter to FALSE to check your prompt and see if it needs editing
- If the row and/or names are shortened, rename them into long, complete and unambiguous names
- **isolate.groups**, when set to TRUE, can reduce the complexity of prompts and help a LLM understand them better
- Do not hesitate to store the prompt in a variable and replace parts of it (with gsub for example) if necessary



### Input

```
library(NaileR)

data(beard_cont)

intro = "A survey was conducted about beards and 6
types of beards were described. In the data that
follow, beards are named B1 to B6."
requ = "Please give a name to each beard and
summarize what makes this beard unique."

ppt = nail_descfreq(beard_cont[1:6,], introduction =
intro, request = requ, generate = F)

ppt = gsub("categories", "words", ppt)

res_llm = ollamar::generate('llama3', ppt, output =
'df')
cat(res_llm$response)
```

### Notes:

- **isolate.groups** was kept to FALSE (default value) to allow comparisons between groups and help make the final group descriptions more distinct
- the customized prompt was sent to ollamar's generate function, with the output set to "df" to get the result as a data frame

### Output

Here are my suggestions for names for each beard type, along with a brief summary of what makes them unique:

#### # B1 - The Elegant Gentleman

This beard is characterized by its neat, clean, and classic style. It's perfect for the sophisticated individual who wants to make a good impression.

#### # B2 - The Charmer

With categories like "young", "sporty", and "charmer", this beard type is all about exuding confidence and charisma. It's ideal for those who want to stand out in a crowd without being too flashy.

#### # B3 - The Hipster Lumberjack

This beard combines the ruggedness of a lumberjack with the hipster vibe, featuring categories like "hipster" and "lumberjack". It's great for those who want to blend urban and outdoor styles.

#### # B4 - The Average Joe

With characteristics like "fat", "busy", and "simple", this beard type is all about being down-to-earth and uncomplicated. It's perfect for those who don't want to draw attention to themselves.

#### # B5 - The Goatee Guru

This beard features a distinctive goatee and categories like "corny" and "quirky". It's ideal for scientists, computer programmers, or anyone who wants to express their geekiness.

#### # B6 - The Picky One

With characteristics like "cut" and "picky", this beard type is all about attention to detail. It's great for those who want a well-groomed look without going over the top.