

MONGODB - J'SUIS PAS VENU LÀ POUR SOUFFRIR OK

COLIN FAY | THINKR
RENCONTRE R 2023

IN A PERFECT WORLD



Mongodb - J'suis pas venu là pour souffrir ok | Rencontres R 2023 | <https://thinkr.fr>

BUT IN AN ALTERNATE UNIVERSE



Mongodb - J'suis pas venu là pour souffrir ok | Rencontres R 2023 | <https://thinkr.fr>

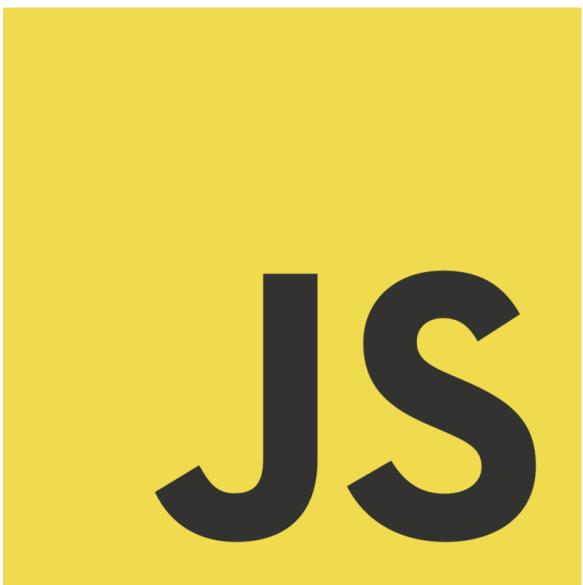
MONGODB?



mongoDB

AIN'T NOBODY GOT TIME FOR THAT

IN THE BEGINNING, THERE WAS A PROJECT



=>



=>



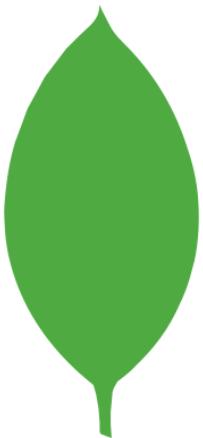


THIS IS
FINE

AND THEN, ANOTHER PROJECT



=>



=>





THIS IS
FINE

AND THEN, ANOTHER PROJECT



<=>

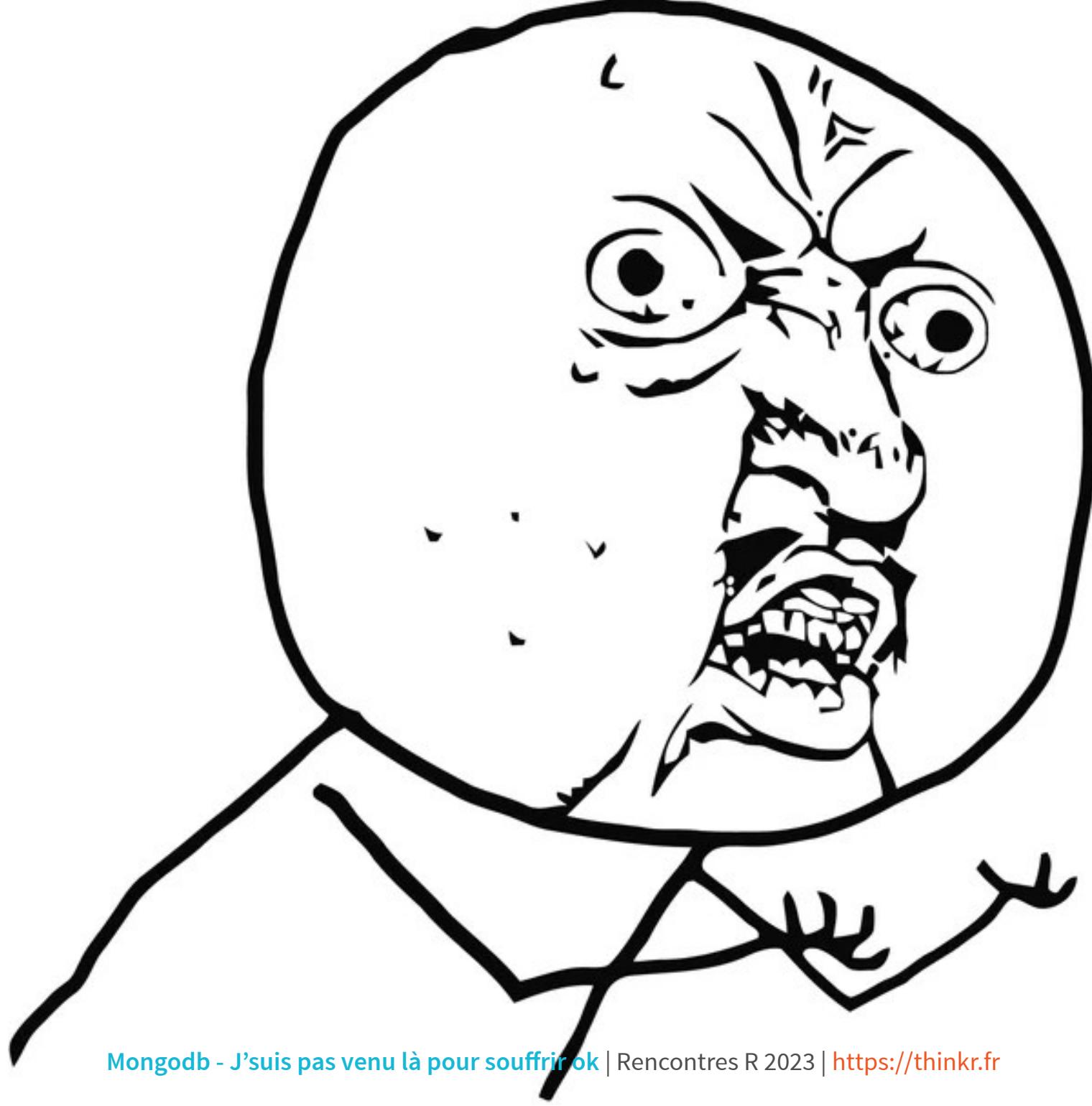


<=>

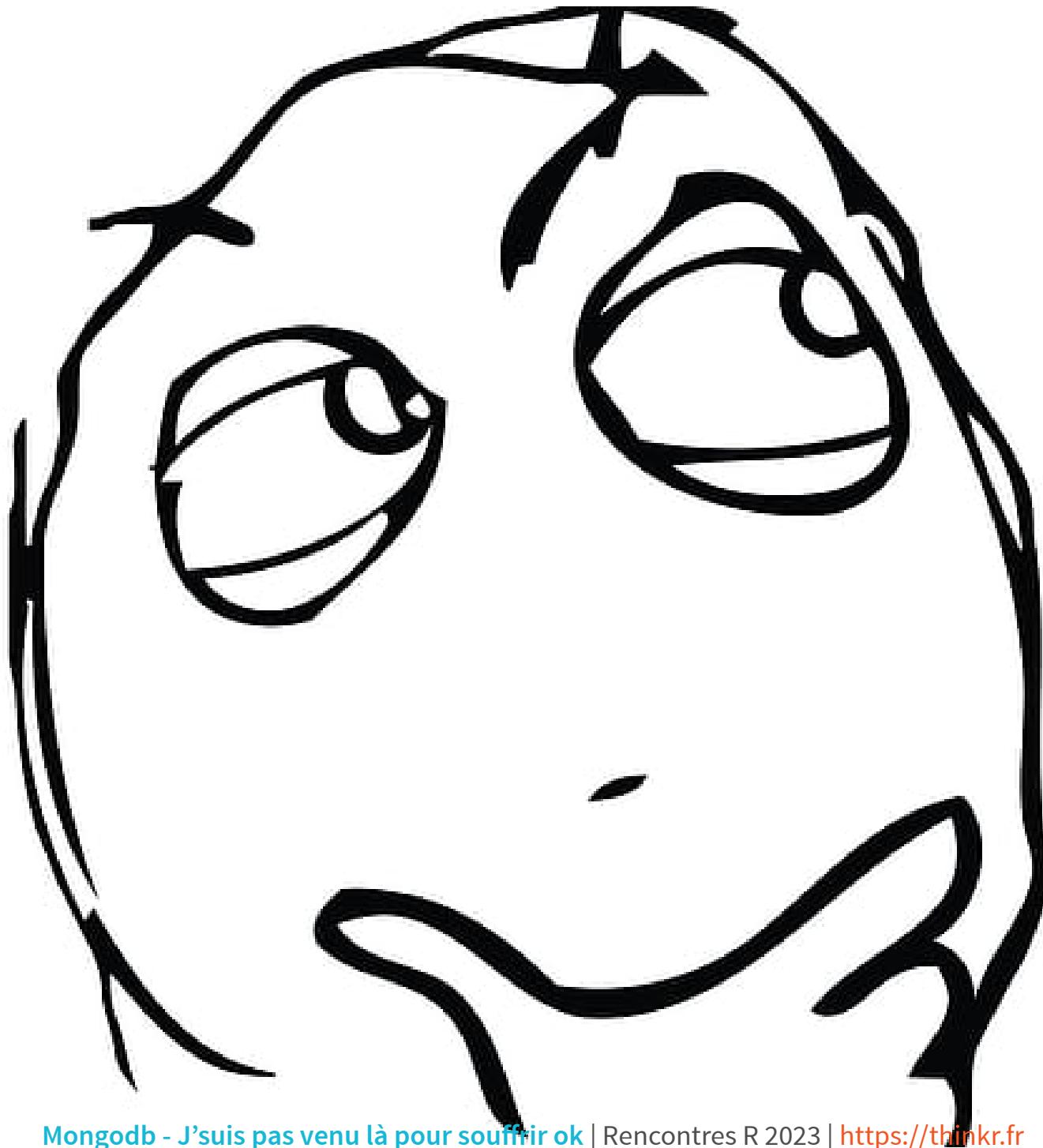




THIS IS
FINE



Mongodb - J'suis pas venu là pour souffrir ok | Rencontres R 2023 | <https://thinkr.fr>



Mongodb - J'suis pas venu là pour souffrir ok | Rencontres R 2023 | <https://thinkr.fr>

WHAT'S WRONG WITH MONGODB & R?



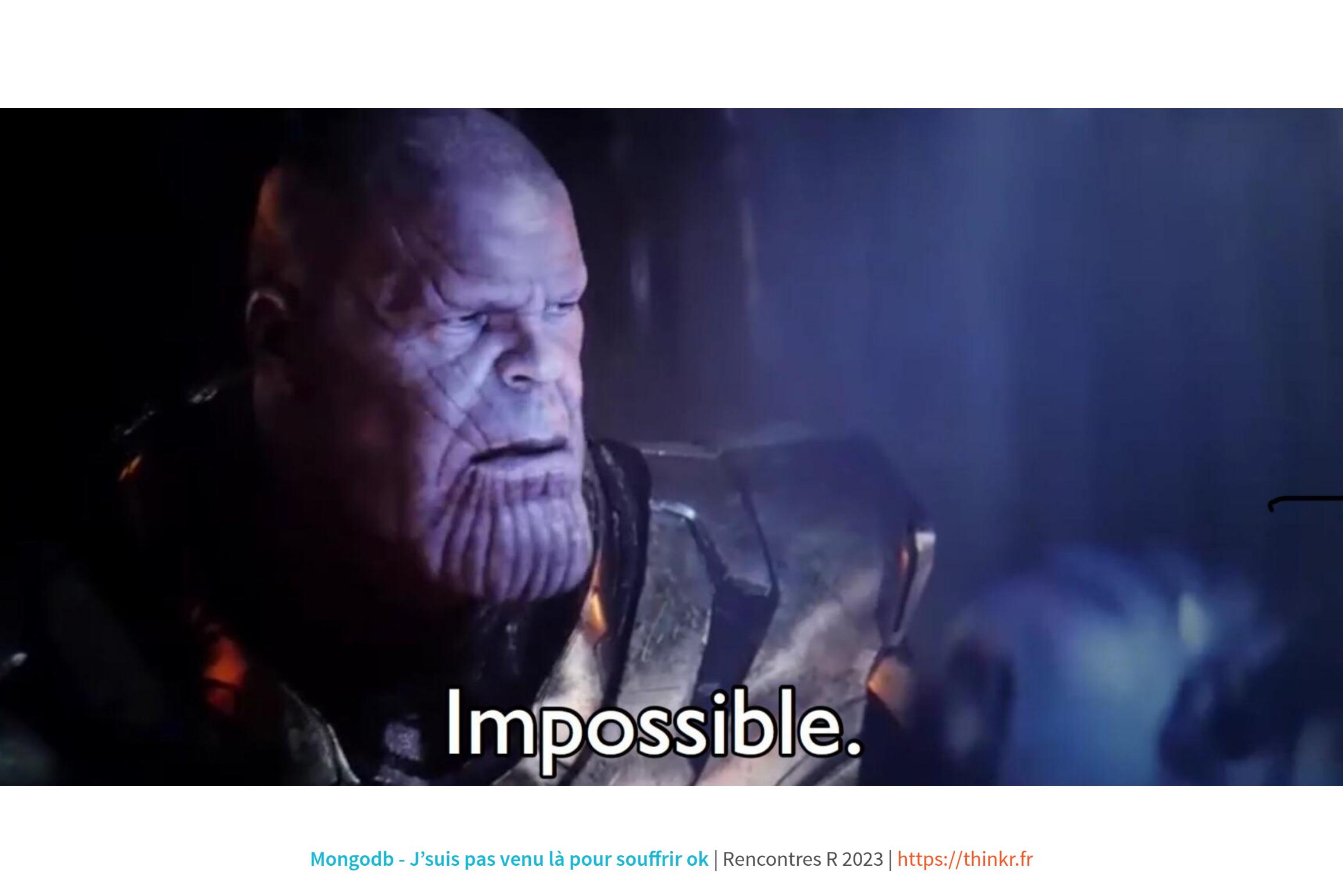
=>





=>





Impossible.



```
1  fridge <- mongolite::mongo()
2  monday_meal <- list(
3    day = Sys.Date() + 1,
4    ingredient = c("tofu", "brocoli"),
5    to_reheat = TRUE,
6    box = "blue"
7  )
8
9  fridge$insert(monday_meal)
```

List of 6

```
$ nInserted : int 1
$ nMatched : int 0
$ nModified : int 0
$ nRemoved : int 0
$ nUpserted : int 0
$ writeErrors: list()
```



```
1 class(monday_meal)
```

```
[1] "list"
```

```
1 fridge_find <- fridge$find()  
2  
3 class(fridge_find)
```

```
[1] "data.frame"
```

```
1 fridge_iterate <- fridge$iterate()$one()  
2  
3 class(fridge_iterate)
```

```
[1] "list"
```



```
1 dplyr::glimpse(monday_meal)
```

List of 4

```
$ day      : Date[1:1], format: "2023-06-22"  
$ ingredient: chr [1:2] "tofu" "brocoli"  
$ to_reheat : logi TRUE  
$ box      : chr "blue"
```

```
1 dplyr::glimpse(fridge_find)
```

Rows: 1

Columns: 4

```
$ day      <list> "2023-06-22"  
$ ingredient <list> <"tofu", "brocoli">  
$ to_reheat <list> TRUE  
$ box      <list> "blue"
```

```
1 dplyr::glimpse(fridge_iterate)
```

List of 4

```
$ day      :List of 1  
..$ : chr "2023-06-22"  
$ ingredient:List of 2  
..$ : chr "tofu"  
..$ : chr "brocoli"  
$ to_reheat :List of 1  
..$ : logi TRUE  
$ box      :List of 1  
..$ : chr "blue"
```



```
1 tuesday_meal <- list(  
2   day = Sys.Date() + 2,  
3   ingredient = "pasta",  
4   box = "red"  
5 )  
6  
7 fridge$insert(tuesday_meal)
```

List of 6

```
$ nInserted : int 1  
$ nMatched : int 0  
$ nModified : int 0  
$ nRemoved : int 0  
$ nUpserted : int 0  
$ writeErrors: list()
```



```
1 dplyr::glimpse(  
2   fridge$iterate('{"box": "blue"}')$one()  
3 )
```

List of 4

```
$ day      :List of 1  
..$ : chr "2023-06-22"  
$ ingredient:List of 2  
..$ : chr "tofu"  
..$ : chr "brocoli"  
$ to_reheat :List of 1  
..$ : logi TRUE  
$ box      :List of 1  
..$ : chr "blue"
```

```
1 dplyr::glimpse(  
2   fridge$iterate('{"box": "red"}')$one()  
3 )
```

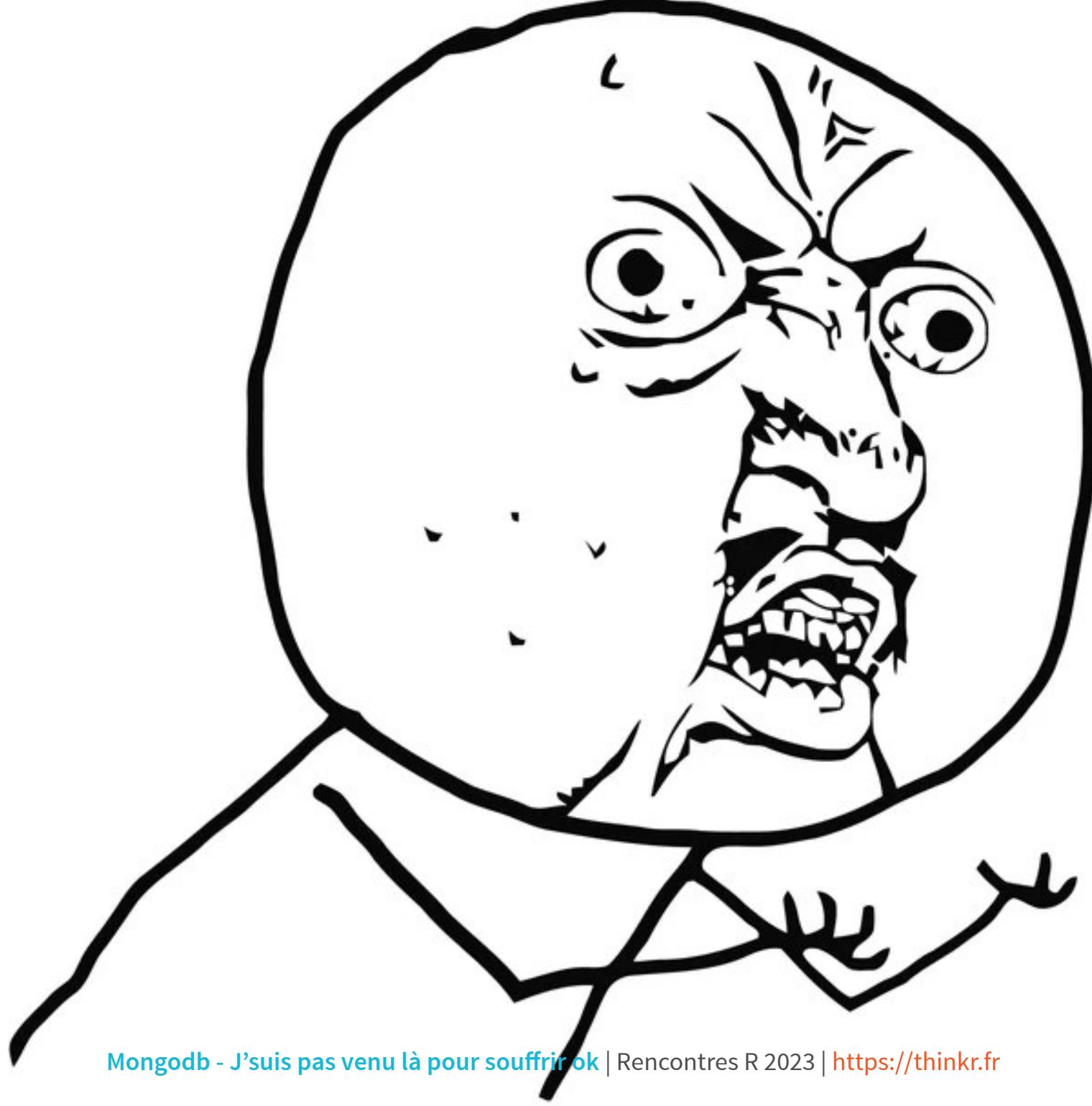
List of 3

```
$ day      :List of 1  
..$ : chr "2023-06-23"  
$ ingredient:List of 1  
..$ : chr "pasta"  
$ box      :List of 1  
..$ : chr "red"
```

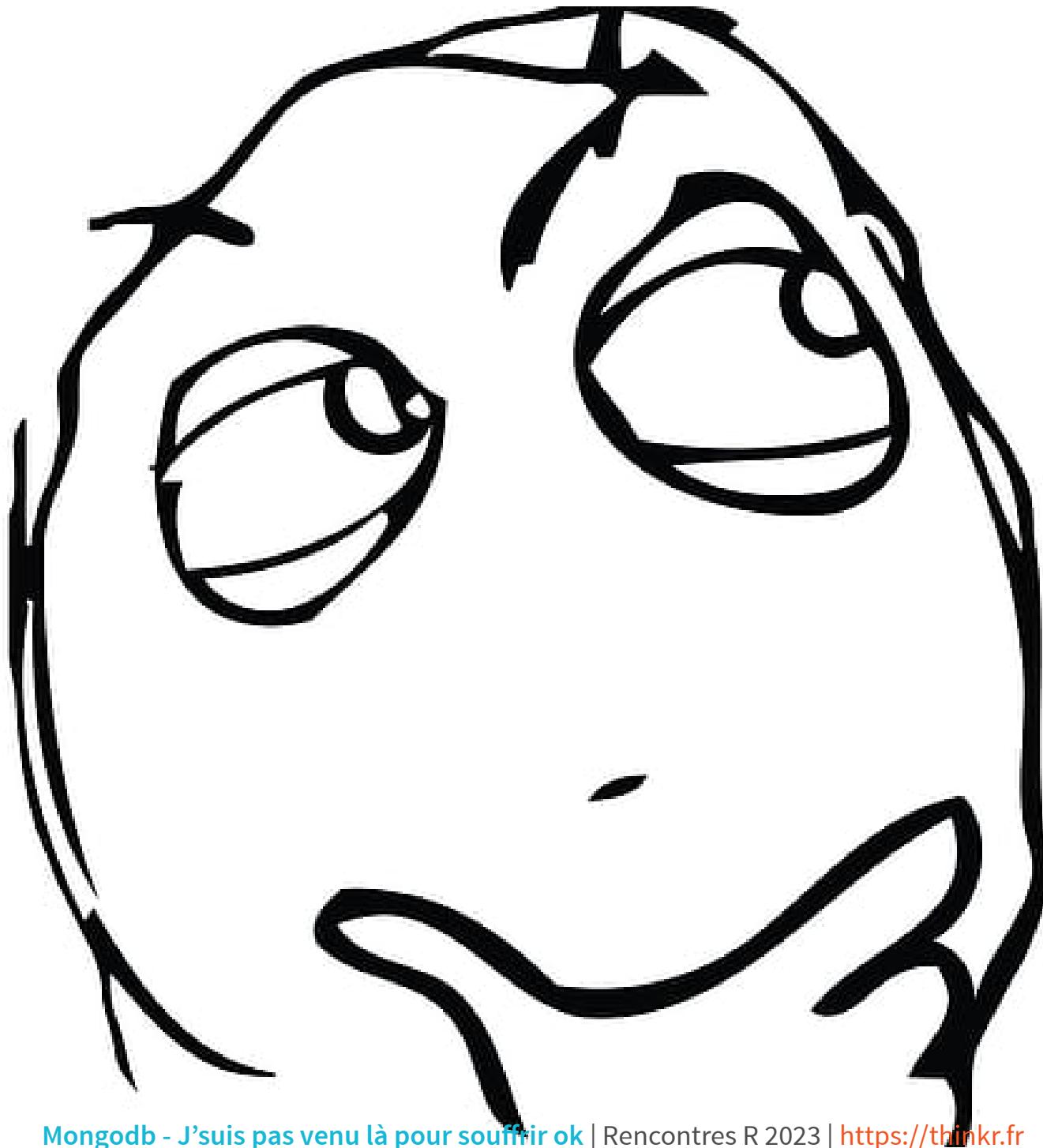




THIS IS
FINE



Mongodb - J'suis pas venu là pour souffrir ok | Rencontres R 2023 | <https://thinkr.fr>



Mongodb - J'suis pas venu là pour souffrir ok | Rencontres R 2023 | <https://thinkr.fr>



WWJD

what would ~~Jesus~~ do?

JAVASCRIPT
DEVELOPERS



mongoose

elegant `mongodb` object modeling for `node.js`



{MONGOSER}

```
1 Food <- mongoosер::model(  
2   "Food",  
3   properties = list(  
4     day = \`(x) structure(NA_real_, class = "Date"),  
5     ingredient = character,  
6     box = character,  
7     to_reheat = logical  
8   ),  
9   validator = list(  
10    day = lubridate::ymd,  
11    ingredient = as.character,  
12    box = as.character,  
13    to_reheat = as.logical  
14  )  
15 )
```

```
1 monday <- Food$new(  
2   monday_meal  
3 )  
4 monday$save()
```

List of 6

```
$ nInserted : int 1  
$ nMatched : int 0  
$ nModified : int 0  
$ nRemoved : int 0  
$ nUpserted : int 0  
$ writeErrors: list()
```

```
1 tuesday <- Food$new(  
2   tuesday_meal  
3 )  
4 tuesday$save()
```

List of 6

```
$ nInserted : int 1  
$ nMatched : int 0  
$ nModified : int 0  
$ nRemoved : int 0  
$ nUpserted : int 0  
$ writeErrors: list()
```

{MONGOSER}

```
1 dplyr::glimpse(  
2   Food$find()  
3 )  
  
List of 2  
$ :List of 4  
..$ day      : Date[1:1], format: "2023-06-22"  
..$ ingredient: chr [1:2] "tofu" "brocoli"  
..$ box       : chr "blue"  
..$ to_reheat : logi TRUE  
$ :List of 4  
..$ day      : Date[1:1], format: "2023-06-23"  
..$ ingredient: chr "pasta"  
..$ box       : chr "red"  
..$ to_reheat : logi FALSE
```

PAK::PAK("THINKR-OPEN/MONGOOSER")

WHAT I LEARNED

1. NEVER TAKE SHORTCUTS

FINALLY,

MY DATA MODEL IS READY

Mongodb - J'suis pas venu là pour souffrir ok | Rencontres R 2023 | <https://thinkr.fr>

2. FLEXIBILITY DOESN'T WORK IN PRODUCTION



Mongodb - J'suis pas venu là pour souffrir ok | Rencontres R 2023 | <https://thinkr.fr>

THANKS. QUESTION?

