

# Surprise me! API

Welcome! Your mission for today, if you choose to accept it, is to build a “surprise me!” API.

The purpose of the API is to return a surprising response, according to the parameters passed by the client.

The surprising response will be chosen from a list of surprising response types, each type has its own internal logic and conditions.

Currently, we have 3 different types of surprising responses, but we might add more types in the future.

The types are:

**1. Chuck Norris Joke (chuck-norris-joke)**

If this type was chosen, we should return a random Chuck Norris joke.

You can use [this API](#) to get jokes.

This type should be chosen only if the user's birth year is 2000 or before.

**2. Kanye West Quote (kanye-quote)**

If this type was chosen, we should return a random Kanye West quote.

You can use [this API](#) to get quotes.

This type should be chosen only if the user's birth year is after 2000 and the user's first name doesn't start with 'A' or 'Z'.

**3. User Name's Sum (name-sum)**

If this type was chosen, we should convert the user's name to numbers and return the sum. Each letter should be converted to a number ('A' = 1, 'B' = 2, 'C' = 3 etc.), then, those numbers should be summed and the sum should be returned to the user.

e.g: “Sun Tzu” = 19 + 21 + 14 + 20 + 26 + 21 = 121.

This type should be chosen only if the user's first name doesn't start with 'Q'.

The API should also allow getting the stats of all previous requests to the `/surprise` route.

# Routes

GET /api/surprise

## Query parameters:

name - string, user's full name (e.g: 'Harry Potter'), **required**

birth\_year - number, user's birth year (e.g: 1984), **required**

## Response:

- If a surprise response type was selected:
  - status code: 200
  - body: JSON, the object should contain two fields:
    1. type - enum (string), one of: chuck-norris-joke, kanye-quote, name-sum
    2. result - string, the surprising response (joke / quote / name sum)
- If no surprise response was selected, return a 404 status code with a 'No surprise for you!' message.
- If the request doesn't contain name or birth\_year, return 400 status code with a proper error message.

## Example:

GET

[http://localhost:3000/api/surprise?name=Ryan%20Gosling&birth\\_year=1980](http://localhost:3000/api/surprise?name=Ryan%20Gosling&birth_year=1980)

```
{
  "type": "chuck-norris-joke",
  "result": "A Chuck Norris divided against himself can still stand."
}
```

GET /api/stats

## Response:

Status code: 200

Body: JSON, the object should contain two fields:

1. requests - number, the number of successful requests to the /surprise route.
2. distribution - array, each item is an object with the following fields:
  - type - enum (string), one of: chuck-norris-joke, kanye-quote, name-sum.
  - count - number, the number of responses of this type.

If there are no previous successful calls to the `/surprise` route, an object with 0 requests and an empty array should be returned.

Example:

GET `http://localhost:3000/api/stats`

```
{
  "requests": 27,
  "distribution": [
    {
      "type": "chuck-norris-joke",
      "count": 12
    },
    {
      "type": "kanye-quote",
      "count": 9
    },
    {
      "type": "name-sum",
      "count": 6
    }
  ]
}
```

## Guidelines

- Attach a README file that explains how to run your code.
- You can write the code in any language you desire.
- Show us how you create a clean, maintainable code that does awesome stuff.
- We love tested code!
- This is not a programming contest where dirty hacks win the game, think about best coding practices and conventions.
- Do you have some extra time? Add a surprising response type that will surprise us!