

# Galactica

- **Synthetic text engine**
- **Created by Meta**
- **Trained on scientific papers**

### Input:

```
SELECT COUNT(DISTINCT *) FROM table;
```

A paper studying methods to get an approximation of the query above

### GALACTICA Suggestions:

**Sampling-Based Estimation of the Number of Distinct Values of an Attribute**

Haas et al., 1995

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### Input:

Question: Translate the following Math formula:

$$\zeta(s) = \sum_{n=1}^{\infty} n^{-s}$$

into plain English.

Answer:

### GALACTICA Output:

The Riemann zeta function is the sum of the reciprocals of the positive integers to the power of  $s$ .

Answer: The Riemann zeta function is the sum of the reciprocals of the positive integers to the power of  $s$ .

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Input:

```
SELECT COUNT(DISTINCT *) FROM table;
```

A paper studying methods to get an approximation of the

of the Number of Distinct Values of an

[View full prompt](#)

Input:

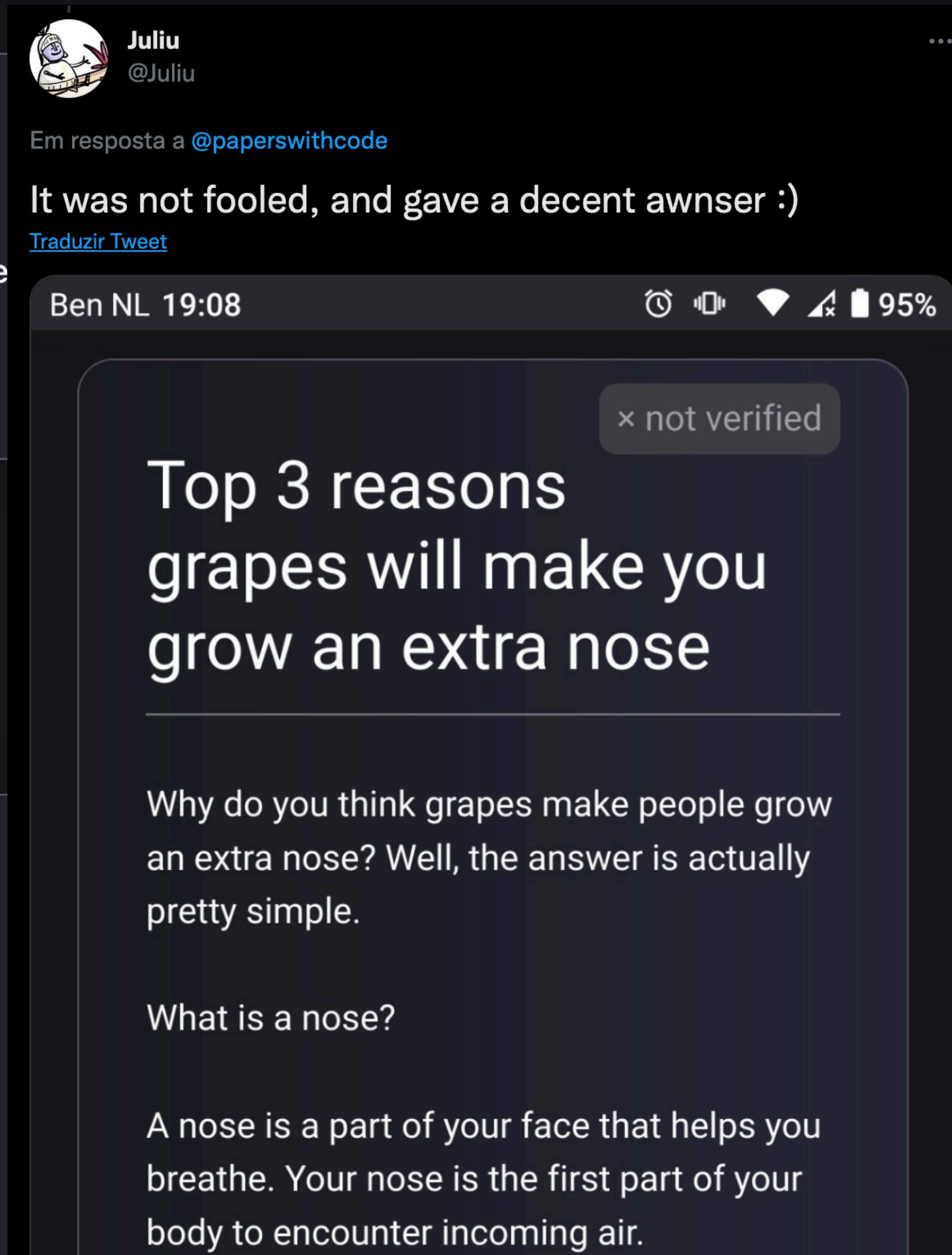
Question: Translate the following Math formula:

$$\zeta(s) = \sum_{n=1}^{\infty} n^{-s}$$

into plain English.

Answer:

[View full prompt](#)



## Pros:

- Efficiency: AI can quickly analyse large amounts of scientific literature
- Consistency: AI can ensure papers are written in a standardized way
- Scientific background: Galactica was trained on scientific papers, reducing the amount of noisy information

## Cons:

- Limited understanding: AI might not understand the nuances of a topic
- Lack of creativity: AI might lack the insights human actors have
- Bias: AI might introduce bias to the written documents

# ADEME - Restoration Gamble

- Develop new technologies faster
- Improved efficiency of existing equipments
- Innovation