

Week 3 Homework

Work with the [80Cereal dataset \(https://www.kaggle.com/crawford/80-cereals\)](https://www.kaggle.com/crawford/80-cereals) and find answers to the following questions:

1. Sugar

- Which product has the least amount of sugar per ounce?
- What is the average amount of sugar per ounce?

2. Calories

- Calculate calories per gram for each cereal product.
- Identify the product with the highest value of calories per gram.
- Identify the product with the lowest value of calories per gram.

3. Ratings

- `numpy.argsort()` is a NumPy function that sorts the values of a numpy array. This function aims to return the *indices* of the sorted values rather than the values themselves. For example:

```
import numpy as np
ary = np.array([3, 1, 4, 9, 6, 0])
print(np.argsort(ary))
```

returns

```
[5 1 0 2 4 3]
```

It means that the sorted values are (from lowest to highest): `ary[5]`, `ary[1]`, `ary[0]`, `ary[2]`, `ary[4]`, `ary[3]`.

Understand how this function works by looking it up in the NumPy documentation, and use it to find the five highest-rated cereal products.

In []: