**Drinking from the pond**

**\*\* Update \*\***

It seems that AWS Kinesis and Firehose services are not integrated with our AWS Educate accounts (the latest revision of AWS Educate claims this has been fixed, but...well... it's a free service... gift horses and all). So, I apologize for the confusion this has caused. We will have to revise this project, thus:

Amazon S3 is extensively used as a file storage system to store and share files across the internet. However, S3 is not just another file storage service. S3 buckets are in fact key-value data repositories that can be used to directly store and retrieve any type of object such data files, JSON objects, as well as Python lists and dictionaries.

In this project, you will be developing a Python script using [boto3](https://boto3.readthedocs.io/en/latest/reference/services/firehose.html) to create buckets on S3, and to store the event logs of Sparkify as JSON objects. In much the same way that you inserted documents (i.e., log data from Sparkify) into MongoDB, you will instead be putting records into the S3 bucket as JSON objects.

Before starting this project, it may be helpful to review the following tutorials to learn about using boto3 to create and manipulate S3 buckets:

<https://dzone.com/articles/boto3-amazon-s3-as-python-object-store>

<https://github.com/aws-samples/aws-open-data-analytics-notebooks/tree/master/exploring-data>

Also, the following resources can serve as quick primers to the boto3 SDK:

<https://boto3.amazonaws.com/v1/documentation/api/latest/guide/quickstart.html>

<https://realpython.com/python-boto3-aws-s3/>

<https://www.youtube.com/playlist?list=PLL2hlSFBmWwx7AFCvrurMhUOJc7kc0ynP>

**Submission:** Submit your solution as a Jupyter Notebook (.ipynb) file.