

# PS4 Hoehne

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## 1 Question 7: Data Scrapping

I would like to learn how to pull images off of websites and save them into a local folder. When I made @kitter\_bot, a Twitter bot that would purr at its' followers, I came across the Twitter bot @the\_ephemerides. @the\_ephemerides pulls images off of NASA's website and using machine learning composes poetry and adds a photo that the program scrapped to publish content to Twitter. Ideally, I would become Twitter famous and sell merchandise for my clever image pulling bot. Additionally, I think it would be practical to pull historical price data from Amazon and build an app that would alert users when a certain product is at a low price, thus saving people money.

## 2 Question 6

4. `class(df1)` is a "data.frame" and `class(df)` is a "SparkDataFrame".

5.b. I believe this is because the commands are not compatible with files that are not in the "SparkDataFrame" format.

6.b. Similar to 5.b., I believe the file format is to blame for the command not running.