Dependencies:

* Python 2.7.10
* urllib 1.17
* json 2.0.9
* re 2.2.1

Instruction to run:

* python parseMessyApi.py

The **average budget of all the winners** is **$17226711.39**

Assumptions:

* The first element under films is always the Winner
* Other than the Pound and Dollar there are no other currencies present.
* For a given Range: 16.5-18 million, I have considered the lower bound since the range is not great and it was easier to parse.
* 1 Pound is 1.27 Dollar
* Value of missing Budget Fields is taken as 0.0 & Ignored during Average Calculation

Approach:

1. Converted HTTP Response to Json as its easier to access(Thank you for the wonderfully formatted data).
2. Picked out the Winners of each year
3. Followed the ‘Detailed Url’ to get to the Budget and Title (less ambiguous)
4. Parsed the Budget to return Float Values taking into account Dollar and Pound conversions
5. All returned Budget Values are in Dollar
6. Stored all the budget values in an array
7. Ignored all missing values(‘Budget’) while calculating average
   1. No trend between previous and past values of budget
   2. No strong correlation between box office earning and budget
   3. Within the same year there was no consistency with movie budget
8. Used this array to find the average