${\bf baseball}_i d$

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CHAPTER 1

Introduction

Do you analyze baseball data from several sources and need to find a way to correlate it for the same player? This takes advantage of the data published at https://github.com/spilchen/baseball_id_db. With the data you can take a player from Yahoo! and cross reference with data from sites such as http://fangraphs.com, http://fangraphs.com, http://fangraphs.com, http://www.seanlahman.com. This package gives you a way to access this map within Python. A set of APIs allow you to do lookup of players by a variety of different IDs.

CHAPTER 2

baseball_id

APIs to lookup into the baseball ID at https://github.com/spilchen/baseball_id_db

All of the from_* APIs return a DataFrame that has baseball player particulars for the IDs in the lookup. For each player that it finds it will a return row in a panda's DataFrame that has:

class baseball_id.lookup.Cache(source)

Class that caches results of baseball ID lookups.

You can use this to cut down on network traffic if you intend to do many calls to the APIs. The first time we use an API, we'll cache the results for subsequent callers.

from_mlb_ids (ids)

Lookup given a list of mlb_ID's

Accepts a list of MLB IDs. It will return a DataFrame containing Series for players that match the MLB IDs passed in. If nothing was found an empty DataFrame is returned.

```
Parameters ids (int list) - mlb_ID's to lookup
```

Returns Players that match the given IDs. If none are found an empty DataFrame is returned.

Return type DataFrame

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```
>>> 39
         430945
                   Adam Jones
                                   CF ...
                                                   OF
                                                           8165.0
                                                                    Adam
                  OF
⊶Jones
>>> 1746 607680 Kevin Pillar
                                   CF ...
                                                   OF
                                                          12678.0 Kevin_
                   OF
→Pillar
>>> 2545 669456 Shane Bieber
                                   P ...
                                                   SP
                                                          14383.0 Shane
⊶Bieber
                    Ρ
>>>
>>> [3 rows x 33 columns]
```

from_yahoo_ids (ids)

Lookup given a list of Yahoo! IDs

Accepts a list of IDs from Yahoo! fantasy baseball. It will return a DataFrame containing Series for players that match the Yahoo! IDs. If nothing was found an empty DataFrame is returned.

Parameters ids (int list) - Yahoo! IDs to lookup

Returns Players that match the given IDs. If none are found an empty DataFrame is returned.

Return type DataFrame

```
>>> In [1]: c.from_yahoo_ids([10794, 9542, 7578])
>>> Out[1]:
>>>
        mlb_id
                     mlb_name mlb_pos ... ottoneu_pos rotowire_id ...
→rotowire_name rotowire_pos
                                                                  A.J.
>>> 5 621345 A.J. Minter
                                   P ...
                                                 RP
                                                       13889.0
                  Р
⊶Minter
                                                       12131.0 Archie_
>>> 204 605151 Archie Bradley
                                   P ...
                                                 RP
→Bradley
                  P
>>> 2340 448179
                   Rich Hill
                               Р ...
                                                 SP
                                                        7965.0
→Rich Hill
                     Ρ
>>>
>>> [3 rows x 33 columns]
```

from_cbs_ids (ids)

Lookup given a list of CBS IDs

Accepts a list of IDs from CBS fantasy baseball. It will return a DataFrame containing Series for players that match the IDs. If nothing was found an empty DataFrame is returned.

Parameters ids (int list) – CBS IDs to lookup

Returns Players that match the given IDs. If none are found an empty DataFrame is returned.

Return type DataFrame

```
>>> In [1]: lookup.from_cbs_ids([1660162, 2507367])
>>> Out[1]:
>>>
       mlb_id
                   mlb_name mlb_pos ... ottoneu_pos rotowire_id rotowire_
→name rotowire_pos
>>> 423 457763 Buster Posey
                                C ...
                                            C/1B
                                                    10426.0 Buster
                С
>>> 1657 665742
                 Juan Soto
                                LF ...
                                            OF
                                                     13960.0
                                                                Juan
-Sot.o
                OF
>>>
>>> [2 rows x 33 columns]
```

from_espn_ids (ids)

Lookup given a list of ESPN IDs

Accepts a list of IDs from ESPN fantasy baseball. It will return a DataFrame containing Series for players that match the IDs. If nothing was found an empty DataFrame is returned.

```
Parameters ids (int list) - ESPN IDs to lookup
```

Returns Players that match the given IDs. If no Series are found an empty DataFrame is returned.

Return type DataFrame

from_fangraphs_ids (ids)

Lookup given a list of FanGraph IDs

Accepts a list of IDs as maintained at fangraphs.com. It will return a DataFrame containing Series for players that match the IDs. If nothing was found an empty DataFrame is returned.

```
Parameters ids (int list) - FanGraph IDs to lookup
```

Returns Players that match the given IDs. If no Series are found an empty DataFrame is returned.

Return type DataFrame

```
>>> In [35]: c.from_fangraphs_ids([19753, 19566])
>>> Out[35]:
>>>
         mlb_id
                           mlb_name mlb_pos ... rotowire_id
                                                                  rotowire_
→name rotowire_pos
>>> 1510 642528 Jonathan Loaisiga
                                          Ρ
                                                     15256.0 Jonathan
→Loaisiga
                     Р
>>> 2133 663993
                          Nate Lowe
                                         1 B
                                                         NaN
⊶NaN
              NaN
>>>
>>> [2 rows x 33 columns]
```

from_names (names, filter_missing=None)

Lookup given a list of player names

Accepts a list of player names. The names must match exactly. It will return a DataFrame containing tuples for each player name that matches.

An optional argument exists to filter based on names and those that have a missing field. See explanation of the filter missing parameter.

Parameters

- names Player names to lookup
- **filter_missing** (str) Optional parameter that allows for additional filtering. Only players that have this field name missing (Nan) will be returned. This is useful for use with one of the other ID based lookup where the ID may not be in the database. For example, set this to 'yahoo_id' to lookup of a rookie who doesn't yet have a yahoo_id in the database.

Returns Players that match the given names. If no Series are found an empty DataFrame is returned.

Return type DataFrame

```
>>> In [28]: lk.from_names(['Khris Davis', 'Enrique Hernandez'])
>>> Out[28]:
>>>
                       mlb_name
                                        mlb_pos ... ottoneu_name _
        mlb_id
→ottoneu_pos rotowire_id rotowire_name rotowire_pos
>>> 966 571771 Enrique Hernandez CF ... Enrique Hernandez
→ 1B/2B/SS/OF 11139.0 Enrique Hernandez
                                                SS
     1753 501981
                         Khris Davis LF
                                               ... Khristopher Davis
>>>
         OF
             11664.0
                         Khris Davis
                                                OF
\hookrightarrow
>>>
>>> [2 rows x 33 columns]
```

class baseball_id.factory.Factory

Factory methods to construct the ID lookup cache object.

classmethod create()

Factory method to create a cache object from github/spilchen/baseball_id_db

This is called as part of package initialization and so can be refered to via the Lookup variable.

```
>>> from baseball_id import Lookup
>>> Lookup.from_yahoo_ids([10794, 9542, 7578])
```

classmethod create_fake()

Factory method to create a fake data source

This refers to a static data file that is in the current package. This function exists for testing purposes as it avoids network traffic to get the actual up-to-date ID mapping.

$\mathsf{CHAPTER}\,3$

Indices and tables

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