R links

* <https://github.com/PatrickChodowski/NBAr>
  + Pulls and processes data from http://stats.nba.com
  + Very diverse get functions
  + Functions contained

|  |  |  |
| --- | --- | --- |
| Function | Works | Notes |
| Get all tracking | yes |  |
| Get box score | yes |  |
| Get defense | yes | Has more necessary values for function execution than others, season, type, defense\_category, per\_mode, plus more |
| Get general | Yes |  |
| Get hustle | yes |  |
| Get lineups | yes | Can get whole season lineup data and team season line up data |
| Get matchups | yes |  |
| Get news | no |  |
| Get on off | yes |  |
| Get play by play | yes | Seems to be the same a playbyplay2 |
| Get play by play 2 | yes |  |
| Get player movement | yes |  |
| Get player bio | yes |  |
| Get players | yes |  |
| Get play type | yes |  |
| Get rotowire status | no |  |
| Get schedule | yes |  |
| Get shooting | yes |  |
| Get shooting dashboard | yes |  |
| Get shot chart | yes |  |
| Get team boxscore | yes |  |
| Get tracking | Yes | Can track by different measures |

<https://github.com/toddwschneider/ballr>

* + API that helps visualize every shot taken by a player during a season
  + Would be helpful in individual player analysis however don’t see how this could help us on a team level
  + Has many facets to look at shots via hexagonal, scatter, and heat map
  + Has filters that you can put on the shooting chart such as zone, angle, distance, made/missed
* <https://github.com/imadmali/NBAapi>
  + Pulls and processes data from stats.nba.com
  + This does a lot of the same things that the first one listed on this list does.
* <https://towardsdatascience.com/how-to-get-data-on-every-nba-player-using-r-62abcacd65e1>
  + Has the most clear path on how to use their data
  + This has a function that would allow me to get a matrix of every NBA player
  + This one would be the most beneficial for me moving forward
* <https://github.com/rtelmore/ballr>
  + Pulls data from basketball reference
  + Has some useful functions that could allow us to look at teams per season stats via nba season team by year
  + Has a function that allows us to look at the NBA standings on any given date
  + Had problems trying to get the functions to run. Had problems installing the ballr package.
  + The standings function works correctly. When you put in dates that aren’t during the season it just stays standings aren’t available
* <https://cran.r-project.org/web/packages/NBAloveR/NBAloveR.pdf>
  + Pulls data from basketball reference
  + Has similar functions to that of the one above.
  + It does have functions to get team salary, team history which returns values similar to the graph that we made,

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Website/  Title page | Where data is pulled from | Player level data & info | Team level data & info | Unique features | Box scores | Advanced stats | Shooting  Locations | Play by play |
| NBAr | NBA website | Yes | Yes | Does everything NBAapi does plus some | YES | YES | YES | YES |
| Schneider  Ballr | NBA website | Yes | No | Heat maps and shooting charts | NO | YES | YES | NO |
| NBA API | Stats.NBA.com | Yes | Yes | Very diverse functions touches on a little of everything | YES | NO | YES | YES |
| Data science webpage | NBA website | Yes | No | List of all NBA players and single player data | NO | NO | NO | NO |
| Rtelmore Ballr | Basketball reference | Yes | Yes | Standings by date. | NO | YES | NO | NO |
| NBA love R | Basketball reference | No/only has hall of fame list | Yes | Simple statistics for team season & team per game | NO | NO | NO | NO |