# **Sports Statistics**

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## **Betting Data**

*Where to get it:*

* Odds Portal: <http://www.oddsportal.com/>
* Betfair: <http://data.betfair.com/> - but you have to bet, which at the moment requires not being in the United States
* Fracsoft: <http://www.fracsoft.com/> - historical Betfair data, with more details, but extra cost
* Scraping gambling websites:
	+ Research the bookmaker. Know what their specialties are.
	+ Really depends on the sport.

*What to look out for:*

* Different types of bookmakers.
	+ Peer-vs-peer gambling
	+ Traditional bookmakers
* House effect (or the bookmaker’s cut or vig)
* When the bets were taken.

*Best Bet:*

* Talk to people inside of the business.
* Talk to statisticians. (Lots of academics doing work with gambling markets.)
* Talk to trade groups. Both inside and watching the industry.

**The Tennis Racket**

* <https://www.buzzfeed.com/heidiblake/the-tennis-racket>
* <https://www.buzzfeed.com/johntemplon/how-we-used-data-to-investigate-match-fixing-in-tennis>
* <https://github.com/BuzzFeedNews/2016-01-tennis-betting-analysis>

## **Rolling Your Own Data**

Sometimes you’re not going to have the right data for what you want to do, but often whatever body runs the sport releases a lot of valuable public data. You just have to know where to look and how to scrape it.

**NCAA:** <http://stats.ncaa.org/>

You can scrape the boxscores and play-by-play for every basketball game. And do things like:

* Calculate how receives each assist from a player: <http://www.nycbuckets.com/2014/03/breaking-jason-brickmans-1000-assists/>
* Figure out how efficient a team is when players are on and off the court: <http://www.nycbuckets.com/2017/02/nyc-buckets-nec-end-season-awards-conference-teams/>

**Professional Leagues:**

* **Major League Baseball**: <http://gd2.mlb.com/components/game/mlb/>
* **National Basketball Association:** <http://stats.nba.com/>
	+ Note: This is actually an API. For instance, if you wanted every shot Russell Westbrook has taken this season: <http://stats.nba.com/stats/shotchartdetail?Period=0&VsConference=&LeagueID=00&LastNGames=0&TeamID=0&PlayerPosition=&Location=&Outcome=&ContextMeasure=FGA&DateFrom=&StartPeriod=&DateTo=&OpponentTeamID=0&ContextFilter=&RangeType=&Season=2016-17&AheadBehind=&PlayerID=201566&EndRange=&VsDivision=&PointDiff=&RookieYear=&GameSegment=&Month=0&ClutchTime=&StartRange=&EndPeriod=&SeasonType=Regular+Season&SeasonSegment=&GameID=>
* **Major League Soccer:** <http://matchcenter.mlssoccer.com/matchcenter/2017-02-23-fc-dallas-vs-arabe-unido/boxscore>
	+ The boxscores in the GameCenter contain the XY coordinate of every shot taken during the game, which can provide some extra context.
	+ It’s worth noting that other providers, such as Opta, have even deeper data, with easier access tools, but it costs $$$.

**International Organizations:**

My colleague Peter Aldhous downloaded data from IAAF and FINA to produce this story: <https://www.buzzfeed.com/peteraldhous/faster-higher-stronger-not>. You can see the data analysis on Github: <https://github.com/BuzzFeedNews/2016-07-athletic-performances>