

Football Analytics 201

Validating Tactical Principles with Statsbomb & Sportmonks

Ruslan Korniiichuk



A lecture selected by a Program Council consisting of recognized leaders in the IT and Data Science field.

Warsaw,
19.03.2026 - 20.03.2026



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Ruslan



● football analysis

Search term



● sports analytics

Search term



● football analyst

Search term



+ Add comparison

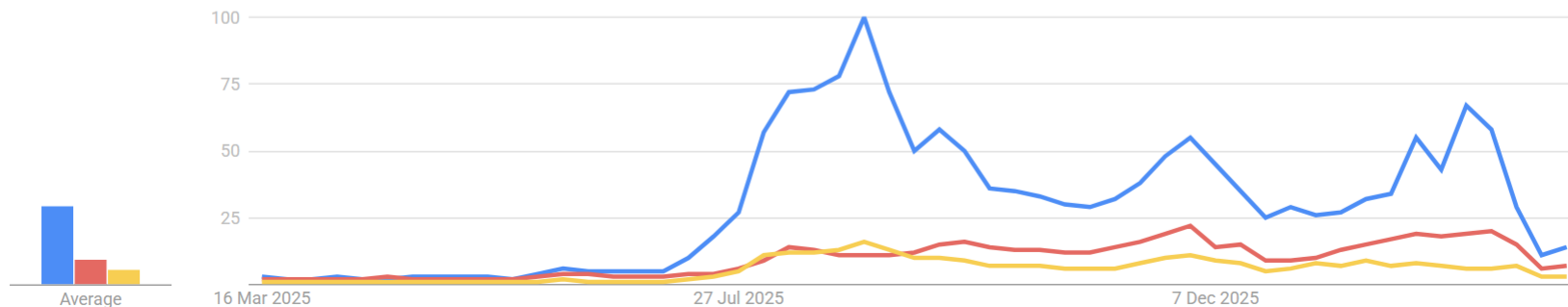
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recap

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01

Hudl Statsbomb
recap

open-data

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<> Code

	cddr Update competitions file to include Women's Euros	3bfbffe · 8 months ago	🕒 1,087 Commits
📁 data	Update competitions file to include Women's Euros	8 months ago	
📁 doc	Upload docs with new branding	4 years ago	
📁 img	Delete statsbomb-logo.jpg	4 years ago	
📄 .DS_Store	Added 370 new games, updated 1087 games.	3 years ago	
📄 LICENSE.pdf	Update LICENSE.pdf	3 years ago	
📄 README.md	Update README.md	4 years ago	

📖 README

🔗 License

✎

☰

StatsBomb Open Data

Welcome to the StatsBomb Open Data repository.

StatsBomb are committed to sharing new data and research publicly to enhance understanding of the game of Football. We want to actively encourage new research and analysis at all levels. Therefore we have made certain leagues of StatsBomb Data freely available for public use for research projects and genuine interest in football analytics.

StatsBomb are hoping that by making data freely available, we will extend the wider football analytics community and

About

Free football data from StatsBomb

🔗 statsbomb.com/resource-centre/

- soccer
- open-data
- football-data
- football
- sports-stats
- sports-data

- 📖 Readme
- 📈 Activity
- 📋 Custom properties
- ★ 3.1k stars
- 👁 226 watching
- 🍴 899 forks
- Report repository

Releases

No releases published

Packages

No packages published

Contributors 5



Hudl Statsbomb Open Data structure

The data is provided as **JSON files** exported from the Statsbomb Data API, in the following structure:

- competition and seasons stored in **competitions.json**
- matches for each competition and **season**, stored in the **matches** folder. Each folder within is named for a competition ID, each file is named for a season ID within that competition
- events and lineups for each match, stored in **events** and **lineups** respectively. Each file is named for a match ID



statsbomb / open-data

Type / to search

[Code](#) [Issues 34](#) [Pull requests 2](#) [Security](#) [Insights](#)

Files



master



Go to file

t

data

- events
- lineups
- matches
- three-sixty

competitions.json

doc

img

.DS_Store

LICENSE.pdf

README.md

open-data / data / competitions.json



cddr Update competitions file to include Women's Euros

3bfbffe · 8 months ago

[History](#)

Code

Blame



Raw



```
1  [ {
2    "competition_id" : 9,
3    "season_id" : 281,
4    "country_name" : "Germany",
5    "competition_name" : "1. Bundesliga",
6    "competition_gender" : "male",
7    "competition_youth" : false,
8    "competition_international" : false,
9    "season_name" : "2023/2024",
10   "match_updated" : "2024-09-28T20:46:38.893391",
11   "match_updated_360" : "2025-07-06T04:26:07.636270",
12   "match_available_360" : "2025-07-06T04:26:07.636270",
13   "match_available" : "2024-09-28T20:46:38.893391"
14 }, {
15   "competition_id" : 9,
16   "season_id" : 27,
17   "country_name" : "Germany",
```

```
[ {
  "competition_id" : 9,
  "season_id" : 281,
  "country_name" : "Germany",
  "competition_name" : "1. Bundesliga",
  "competition_gender" : "male",
  "competition_youth" : false,
  "competition_international" : false,
  "season_name" : "2023/2024",
  "match_updated" : "2024-09-28T20:46:38.893391",
  "match_updated_360" : "2025-07-06T04:26:07.636270",
  "match_available_360" : "2025-07-06T04:26:07.636270",
  "match_available" : "2024-09-28T20:46:38.893391"
}, {
  "competition_id" : 9,
  "season_id" : 27,
  "country_name" : "Germany",
  "competition_name" : "1. Bundesliga",
  "competition_gender" : "male",
  "competition_youth" : false,
  "competition_international" : false,
  "season_name" : "2015/2016",
  "match_updated" : "2024-05-19T11:11:14.192381",
  "match_updated_360" : null,
  "match_available_360" : null,
  "match_available" : "2024-05-19T11:11:14.192381"
}, {
  "competition_id" : 1267
```

02

Sportmonks
recap

FREE SUBSCRIPTION

SUBSCRIPTION FOR PERSONAL ACCOUNT

You are currently on the Free Subscription, please check the leagues and features below



Football Free Plan

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Data Features

**4**

Leagues



V3



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**3**

Leagues



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ENHANCE YOUR SPORTMONKS EXPERIENCE

Football

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Total of plan

€0

Cricket

Cricket Free Plan

€0

Total of plan

€0

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Total of widgets

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FEATURES

This plan has *standard* features and access to API Version 3

	BASIC	STANDARD	ADVANCED
Live Data			
Events	✓	✓	✓
Livescores	✓	✓	✓
Tv Stations	-	✓	✓
Commentaries	-	✓	✓
Match Statistics	-	✓	✓
Lineups	-	✓	✓
Ball Coordinates	-	-	✓
Trends Analyses	-	-	✓

[Visit our Coverage page](#)

API STRUCTURE

Subscription and API

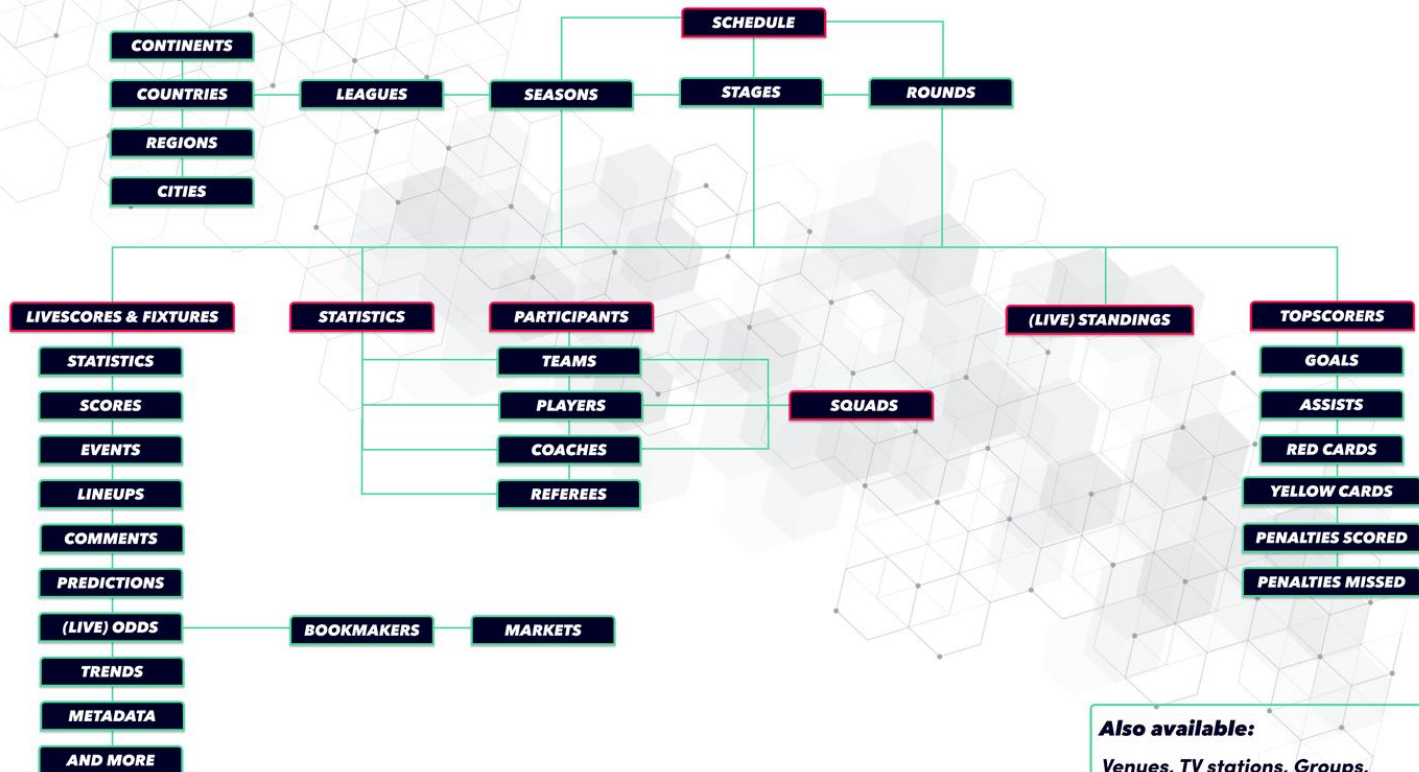
ENRICHMENTS

FILTERS

RESOURCES

TYPES

LEAGUES



Also available:

Venues, TV stations, Groups,
Transfers, Rivals and More

Sportmonks: Fixture (match) by ID

```
sportmonks_0004.ipynb
```

Python 3 (ipykernel)

```
[1]: import pandas as pd
import requests

[2]: API_TOKEN = "tqz8BHX200tyVADTRuvyBaGmLVrZkwcwrhfbRjR9T5ZAQWXovTUEBytl4onZ"
params = {"api_token": API_TOKEN}

Aberdeen vs Ross County ( 19146817 )

[3]: data = requests.get("https://api.sportmonks.com/v3/football/fixtures/19146817", params=params).json()["data"]

[4]: match = pd.json_normalize(data)

[5]: match.columns

[5]: Index(['id', 'sport_id', 'league_id', 'season_id', 'stage_id', 'group_id',
        'aggregate_id', 'round_id', 'state_id', 'venue_id', 'name',
        'starting_at', 'result_info', 'leg', 'details', 'length', 'placeholder',
        'has_odds', 'has_premium_odds', 'starting_at_timestamp'],
        dtype='object')
```

Sportmonks: Fixture (match) statistics

sportmonks_0005.ipynb

+

Python 3 (ipykernel)

Code

```
[1]: import pandas as pd
import requests

[2]: API_TOKEN = "tqz8BHX200tyVADTRuvyBaGmLVrZkwcwrhfbRjR9T5ZAQWXovTUEBytl4onZ"
params = {"api_token": API_TOKEN, "include": "statistics.type;events;formations;timeline;lineups.details.type"}

[3]: data = requests.get("https://api.sportmonks.com/v3/football/fixtures/19146817", params=params).json()["data"]
match = pd.json_normalize(data)
match.columns

[3]: Index(['id', 'sport_id', 'league_id', 'season_id', 'stage_id', 'group_id',
        'aggregate_id', 'round_id', 'state_id', 'venue_id', 'name',
        'starting_at', 'result_info', 'leg', 'details', 'length', 'placeholder',
        'has_odds', 'has_premium_odds', 'starting_at_timestamp', 'statistics',
        'events', 'formations', 'timeline', 'lineups'],
        dtype='object')

[4]: statistics = pd.json_normalize(match.statistics[0])

[5]: statistics.head(5)
```

	id	fixture_id	type_id	participant_id	location	data.value	type.id	type.name	type.code	type.developer_name	type.model_type	type.stat_group
0	207022998	19146817	34	273	home	9	34	Corners	corners	CORNERS	statistic	offensive
1	207023003	19146817	84	273	home	2	84	Yellowcards	yellowcards	YELLOWCARDS	statistic	overall
2	207023280	19146817	1605	273	home	33	1605	Successful Dribbles Percentage	successful-dribbles-percentage	SUCCESSFUL_DRIBBLES_PERCENTAGE	statistic	offensive
3	207023287	19146817	1605	246	away	38	1605	Successful Dribbles Percentage	successful-dribbles-percentage	SUCCESSFUL_DRIBBLES_PERCENTAGE	statistic	offensive
4	207023271	19146817	45	273	home	66	45	Ball Possession %	ball-possession	BALL_POSSESSION	statistic	overall

sport round stage group aggregate league season venue state
weatherReport lineups events timeline comments trends statistics
periods participants odds premiumOdds ↗ inplayOdds postmatchNews
prematchNews metadata tvStations predictions referees formations
ballCoordinates sidelined metadata scores

03

Demo

**IMDb**

All ▾



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S3.E7 < All episodes >

All topics



The Strings That Bind Us

Episode aired Apr 26, 2023 · TV-MA · 57m



Comedy

Drama

Sport

The Greyhounds try a new strategy that has everyone thinking outside the box. Sam prepares to host a VIP guest at Ola's.

★ 8.3/10 8.4K

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Director [Matt Lipsey](#)**Writers** [Phoebe Walsh](#) · [Sasha Garron](#) · [Keeley Hazell](#) >**Stars** [Jason Sudeikis](#) · [Hannah Waddingham](#) · [Jeremy Swift](#) >

How To Get Started In Football Analytics

29 AUG 2024 7 MIN READ

Since our inception, Hudl Statsbomb has been at the forefront of educating the next generation of football analysts. We're committed to providing materials and resources to develop the skills needed to enter the industry, from free datasets and code to industry-standard education and training courses. We've opened the doors to our extensive knowledge base, all to help aspiring analysts hone their craft.

One of the most common questions we receive is, "How do I get started in football analytics?" This article is our answer — a comprehensive guide that gathers all our resources in one place, designed to be your go-to reference for both inspiration and education. Whether you're just starting out or looking to upskill, you'll find everything you need here.

04

Closing slides

football-analytics-wdi-2026

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Code

korniichuk Fix header in README.md	5a9010a · 1 minute ago	3 Commits
sportmonks	Initial commit	3 days ago
statsbomb	Initial commit	3 days ago
.gitignore	Initial commit	3 days ago
LICENSE	Initial commit	3 days ago
README.md	Fix header in README.md	1 minute ago
requirements.txt	Initial commit	3 days ago

BOOKMARKS

README

Unlicense license

football-analytics-wdi-2026

Football Analytics 201: Validating Tactical Principles with Statsbomb & Sportmonks

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RUSLAN KORNIICHUK

Ukrainian Data and Platform Architect in Poland



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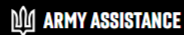
Solid experience of 10+ years in IT. Former Lead Engineer and Architect at Fortune 500 companies. Core areas: modern data platforms and cloud computing.

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Ruslan Korniiichuk

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