

Aktører & datakilder

wyscout
the football company





Data Driven Video Analysis

Empowering the Football
Analytics Community





Angel Ric
@angelric10

...

New @FIFACom EPTS

Standard Data
colaboration w
@FCBarcelona
today in #barc
@BarcalnnoHu
technology.fifa
a-tiles...



metrica-sports-sample-data

Navn

▼ data

> Sample_Game_1

> Sample_Game_2

> Sample_Game_3

Sample_Game_3_events.json

Sample_Game_3_metadata.xml

Sample_Game_3_tracking.txt

▼ documentation

events-definitions.pdf

README.md



Angel Ric
@angelric10

...

New [@FIFAcom](#) EPTS Standard Data Format, in colaboration with [@FCBarcelona](#) Anounced today in [#barcasportstech](#) [@BarcalnnoHub](#) [football-technology.fifa.com/en/media-tiles...](#)

1.44 PM · 16. nov. 2018 · Twitter for Android

< > metrica-sports-sample-data

Navn

- ✓ [data](#)
 - [Sample_Game_1](#)
 - [Sample_Game_2](#)
 - ✓ [Sample_Game_3](#)
 - ws** [Sample_Game_3_events.json](#)
 - ⚡** [Sample_Game_3_metadata.xml](#)
 - 📄** [Sample_Game_3_tracking.txt](#)
- ✓ [documentation](#)
 - 📝** [events-definitions.pdf](#)
 - MD** [README.md](#)



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metrica-sports / sample-data Public

Why GitHub? Team Enterprise Explore

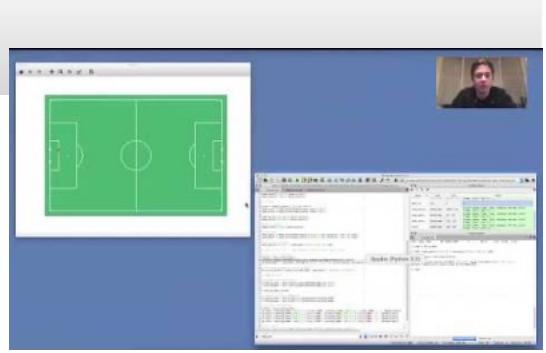
Friends-of-Tracking-Data-FoTD

Metrica Tracking Data

The Metrica Sports logo, identical to the one on the left.

Event Data
Log of each on-ball event
(passes/tackles/shots)
A few thousand events/match

Tracking Data
Player & ball positions
sampled at 25HZ
Several million observations/match



Laurie Shaw
@EightyFivePoint

Lead AI Scientist at City Football Group. Former lecturer and research scientist
@Harvard, astrophysicist @Yale and policy advisor @HMTreasury.

Boston, MA eightyfivepoints.blogspot.com
Medlem siden september 2016

534 Følger 11,5 t Følgere

<https://www.youtube.com/watch?v=8TrleFklEsE>

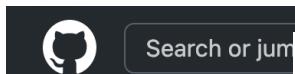


Metrica Tracking Data

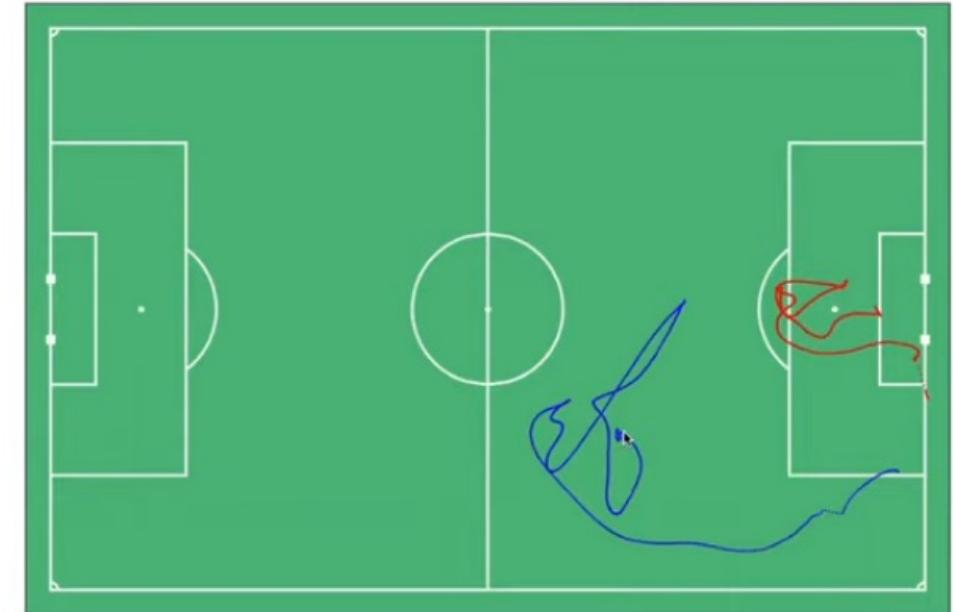
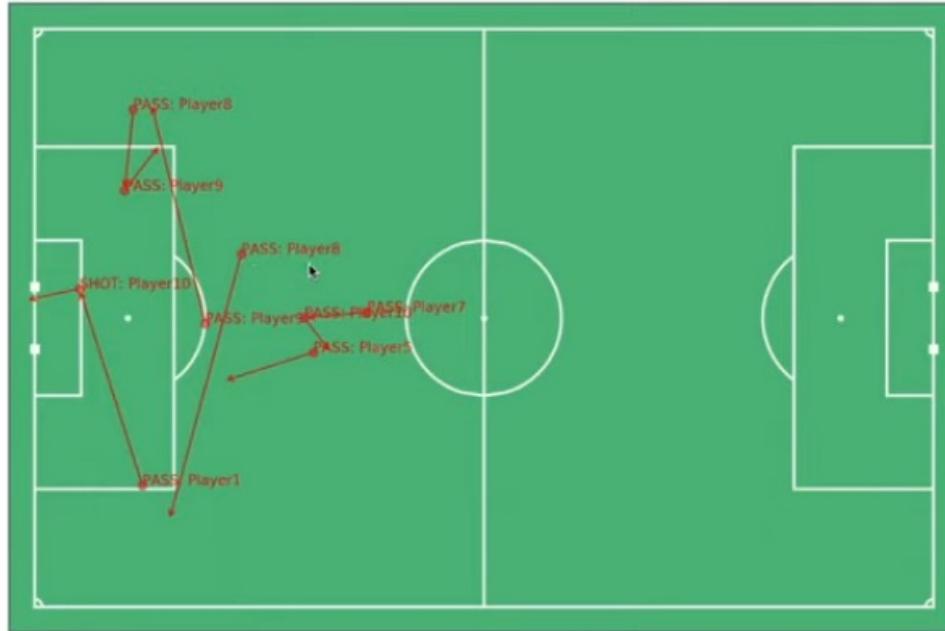


Event Data
Log of each on-ball event
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A few thousand events/match

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Player & ball positions
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Several million observations/match



[metrica-sports](#)





Tracking Data

Player & ball positions
sampled at 25HZ

Several million observations/match

Navn

data

> Sample_Game_1

> Sample_Game_2

> Sample_Game_3

ws Sample_Game_3_events.json

Sample_Game_3_metadata.xml

Sample_Game_3_tracking.txt

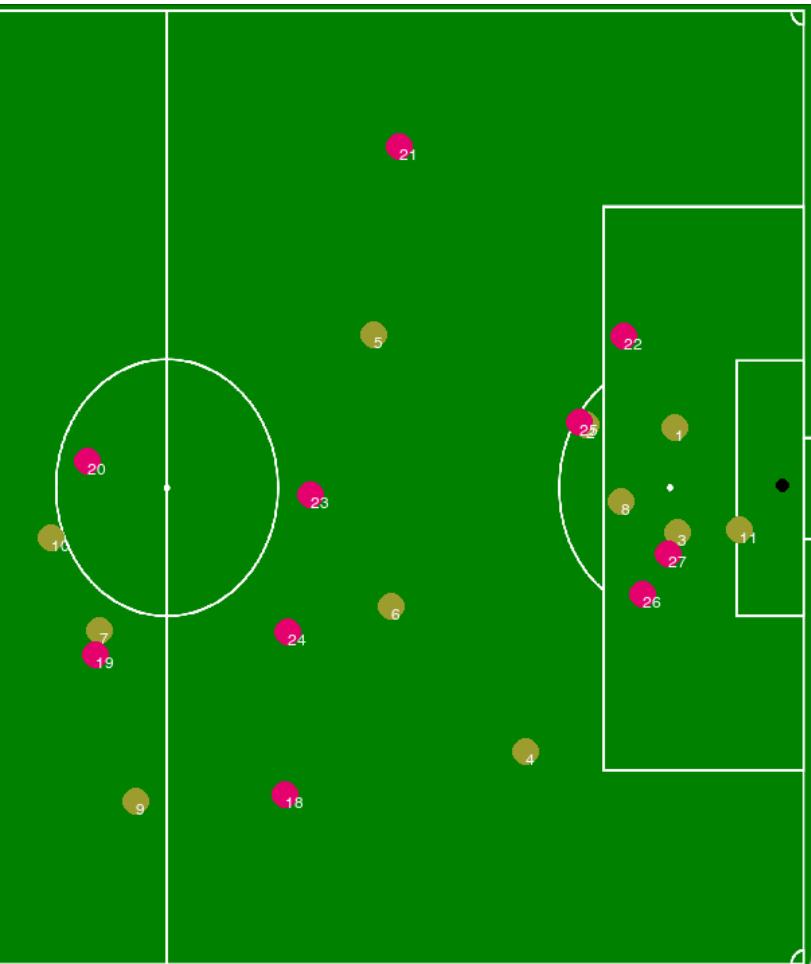
documentation

events-definitions.pdf

```
1:0.84722,0.52855;0.65268,0.24792; ... 0.22684;0.44476,0.62375;0.41381,0.52790;0.41787,0.48086;0.41215,0.36689;0.47050,0.73219;0.48864,0.36357;NaN,NaN
2:0.84722,0.52855;0.65231,0.24513; ... 22230;0.44417,0.62192;0.41375,0.52780;0.41719,0.47864;0.41132,0.36169;0.47040,0.73204;0.48834,0.36362;NaN,NaN
11991:0.83917,0.39725;0.60634,0.34932; ... 0.42503,0.81285;0.39978,0.66776;0.26515,0.62792;0.48542,0.35145;0.60616,0.81377;0.62821,0.56111;0.32912,0.87084
11992:0.83916,0.39723;0.60670,0.35059; ... 0.42495,0.81288;0.39981,0.66909;0.26577,0.62943;0.48614,0.35281;0.60619,0.81689;0.62838,0.56322;0.33061,0.87171
(base)
```

resources — vim Sample_Game_3_metadata.xml —

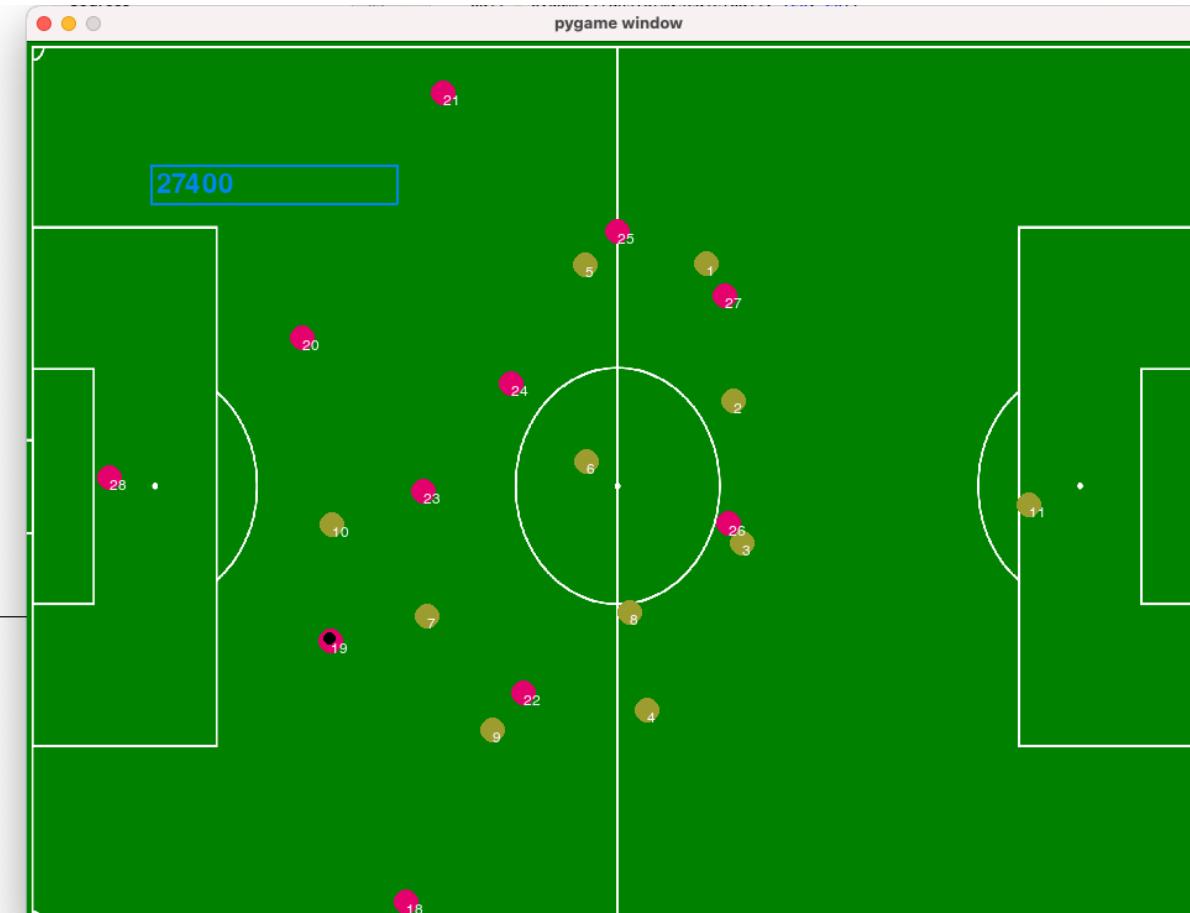
```
1 <?xml version="1.0" encoding="utf-8"?>
2 <main xmlns:tns="FIFADataTransferFormatEPTSNamespace/FIFADataTransferFormatEPTS"
ema-instance" xsi:schemaLocation="FIFADataTransferFormatEPTSNamespace/FIFADataTr
TS.xsd">
3   <Metadata>
4     <GlobalConfig>
5       <FileDate>2020-05-08T12:38:28.766Z</FileDate>
6       <FileName>game_DEMO_1002_FIFATMA_FIFATMB_MetadataFifaFormat</FileName>
7       <TrackingType>Optical</TrackingType>
8       <ProviderName>Metrica Sports</ProviderName>
9       <FrameRate>25</FrameRate>
10      <ProviderGlobalParameters>
11        <ProviderParameter>
12          <Name>first_half_start</Name>
13          <Value>1</Value>
14        </ProviderParameter>
15        <ProviderParameter>
16          <Name>first_half_end</Name>
17          <Value>69661</Value>
18        </ProviderParameter>
19        <ProviderParameter>
20          <Name>second_half_start</Name>
21          <Value>69662</Value>
22        </ProviderParameter>
```



```

        "end": {
          "frame": 27525,
          "time": 1101,
          "x": 0.86504,
          "y": 0.56461
        },
        "period": 1,
        "from": {
          "name": Player 27,
          "id": P3594
        },
        "to": null
      },
      {
        "index": 708,
        "team": {
          "name": Team B,
          "id": FIFATMB
        },
        "type": {
          "name": SHOT,
          "id": 2
        },
        "ubtypes": [
          {
            "name": ON TARGET,
            "id": 28
          },
          {
            "name": GOAL,
            "id": 30
          }
        ],
        "start": {
          "frame": 27525,
          "time": 1101,
          "x": 0.86504,
          "y": 0.56461
        },
        "end": {
          "frame": 27544,
          "time": 1101.76,
          "x": 1.01,
          "y": 0.48
        },
        "period": 1,
        "from": {
          "name": Player 27,
          "id": P3594
        },
        "to": null
      }
    ]
  }
}

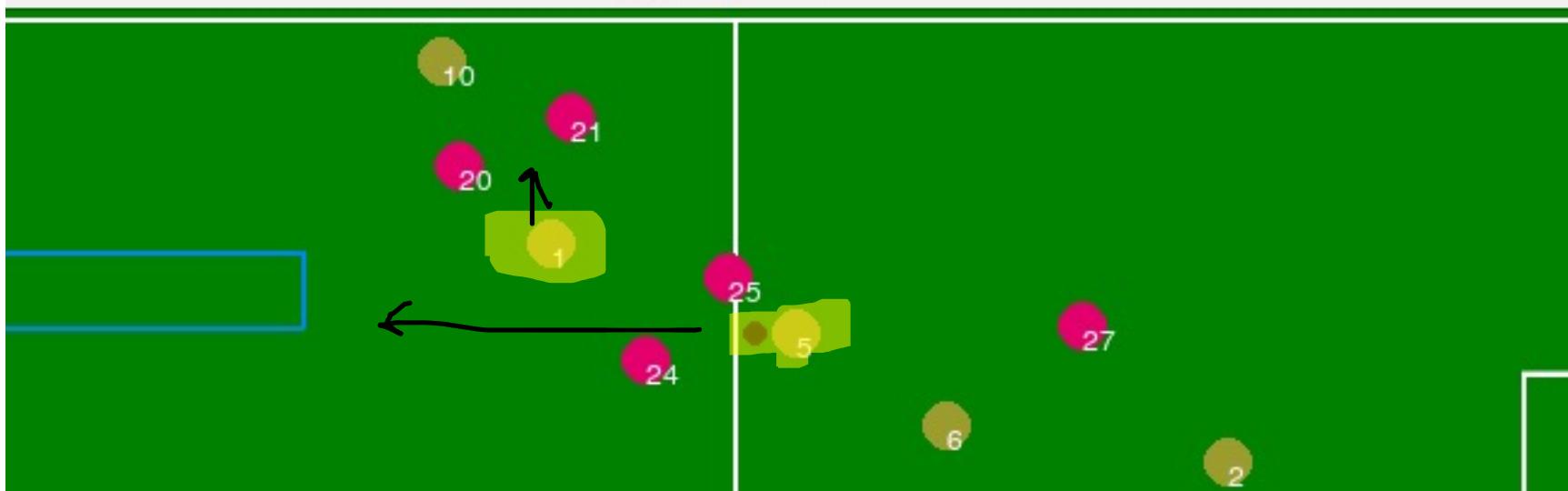
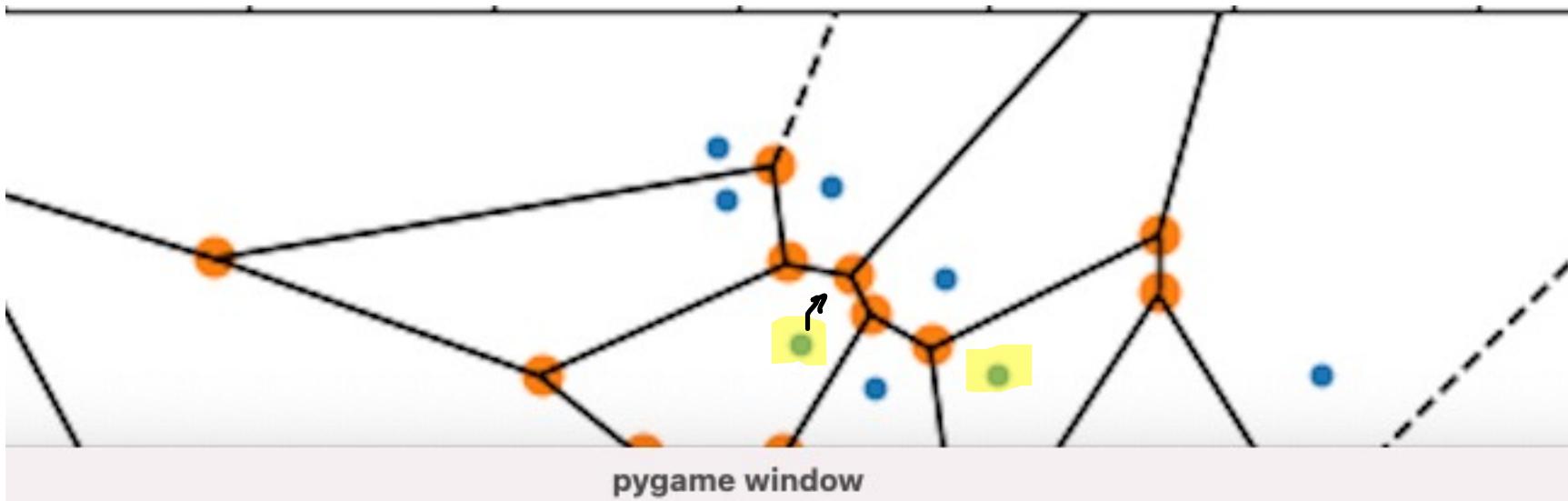
```



Tracking Data
Player & ball positions
sampled at 25HZ
Several million observations/match



VORONOI



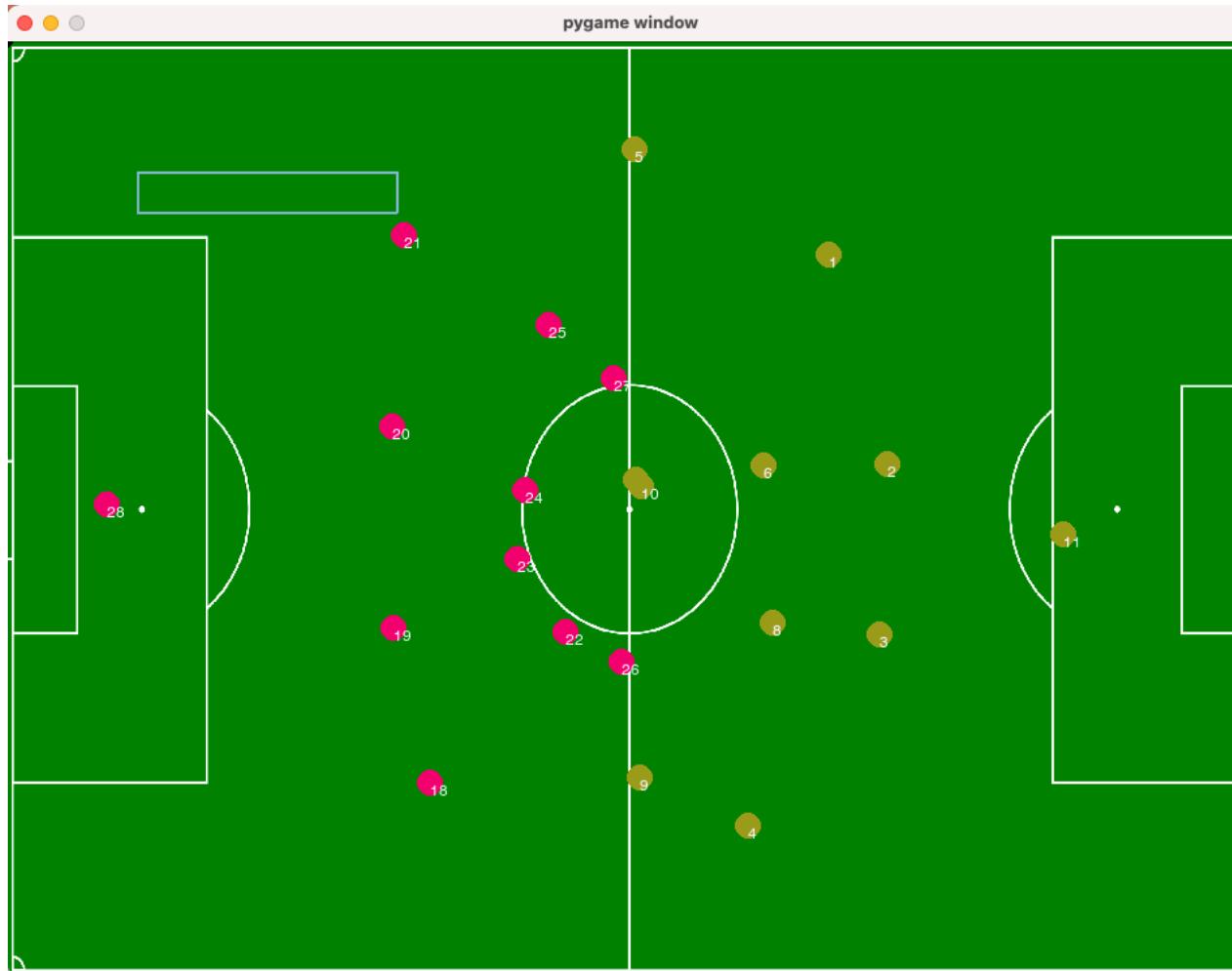


Event Data

Log of each on-ball event
(passes/tackles/shots)

A few thousand events/match

Live Demo





```
1 1
2 period: 1,
3 frameIdx: 0,
4 gameClock: 0,
5 wallClock: 1653145503547,
6 homePlayers: [
7   {
8     playerId: 0502031f-c2d5-4e75-a96f-d850c5f6eca0,
9     number: 15,
10    xyz: [
11      -3.34,
12      8.28,
13      0
14    ],
15    speed: 0,
16    optaId: 164489
17  },
18 ]
```

```
249   optaId: 223422
250 }
251 ],
252 ball: {
253   xyz: [
254     -0.22,
255     0.25,
256     0.37
257   ],
258   speed: 2.01
259 },
260 live: false,
261 lastTouch: home
262 ]
```

Home

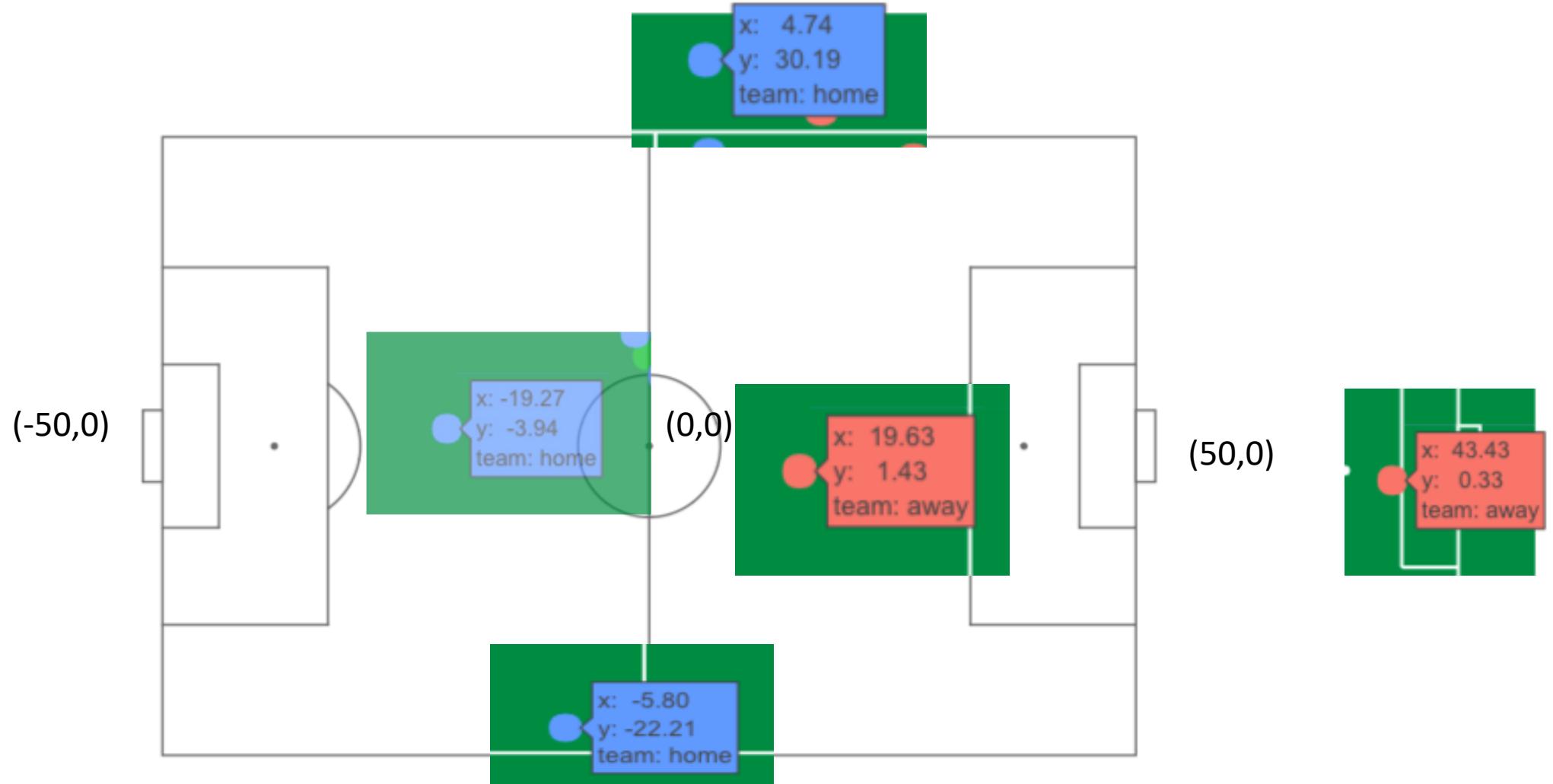
Home x-koord

Home y-koord

Away

The screenshot shows a football match between Vejle Boldklub and OB. The score is 2-1 at full time (FT) in the 32nd round. The OB logo is highlighted with a yellow circle. On the left, a JSON log entry for a home player is shown, with arrows pointing from the 'xyz' coordinates to the corresponding data in the mongoDB database. The mongoDB database entry for the ball is also highlighted with a yellow circle, showing its position and speed over time.

Time	X	Y	Z
0.0	-3.34	8.28	0
8.30	-2.55	4.3	0.16
14.72	-1.62	-17.82	-7.38
21.04	-0.4	-46.04	3.35
27.43	-19.4	-19.25	8.28
33.81	3.58	24.81	-0.4
40.19	21.23	18.62	-23.44
46.57	1.39	-11.49	0.5
52.95	-9.72	11.6	27.28
59.33	3.1	22.54	8.33
65.71	-0.22	0.15	1.04





Interview med Frökjær efter sidste kamp i Kvalifikationsspillet



26'



Mads Frökjaer-Jensen is on target to give Odense a 0-1 advantage.

VEJ
0
OBK
1

85'



Vejle have a goal kick.

86'



Goal! The home team take a 2-1 lead through Marius Elvius Kolind Jorgensen.

VEJ
2
OBK
1

Sat May 21 2022 18:07:03

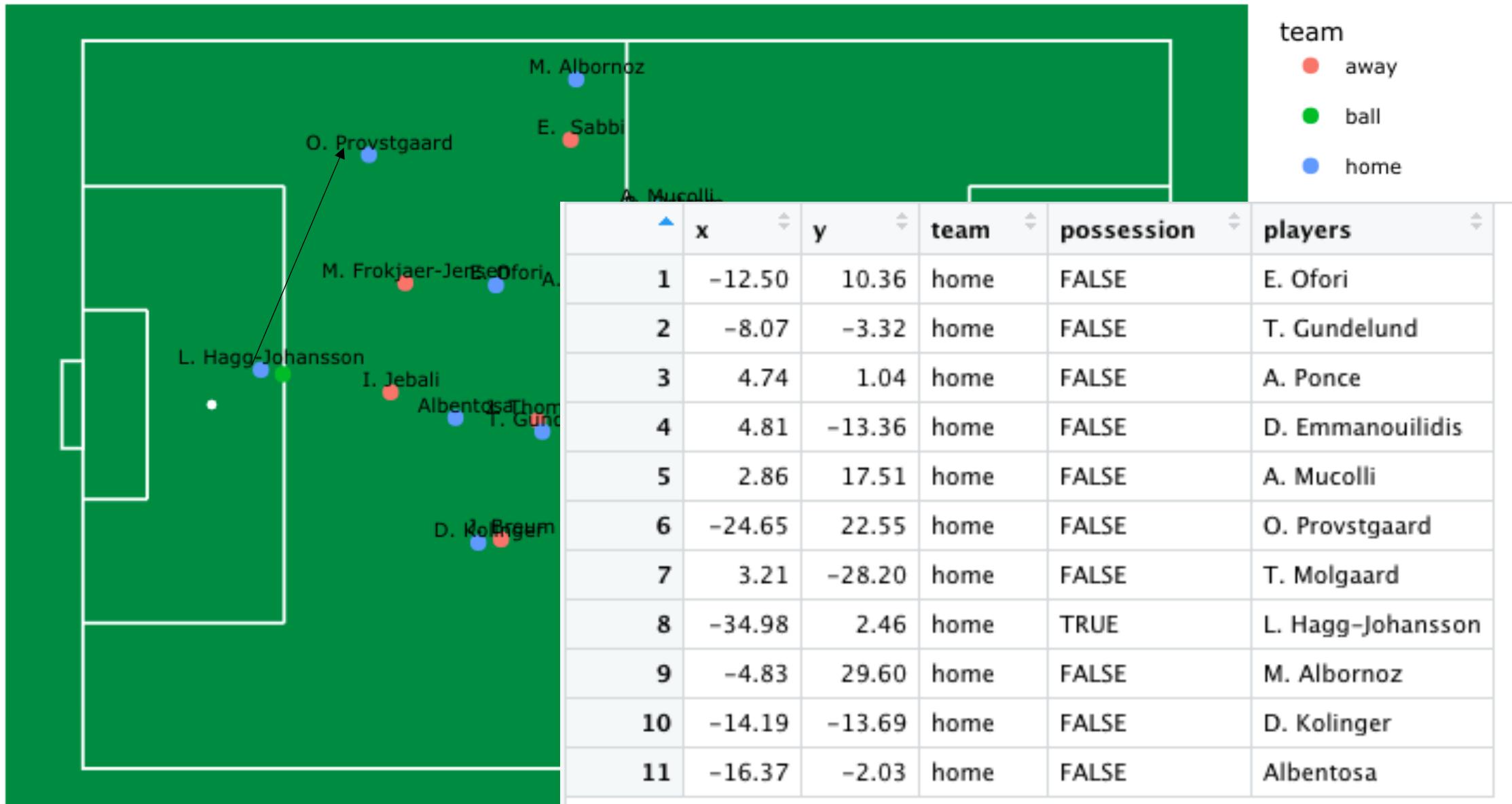
```
"period": 2,  
frameIdx: 69068,  
gameClock: 0,  
wallClock: 1653149223907
```

1653149223947

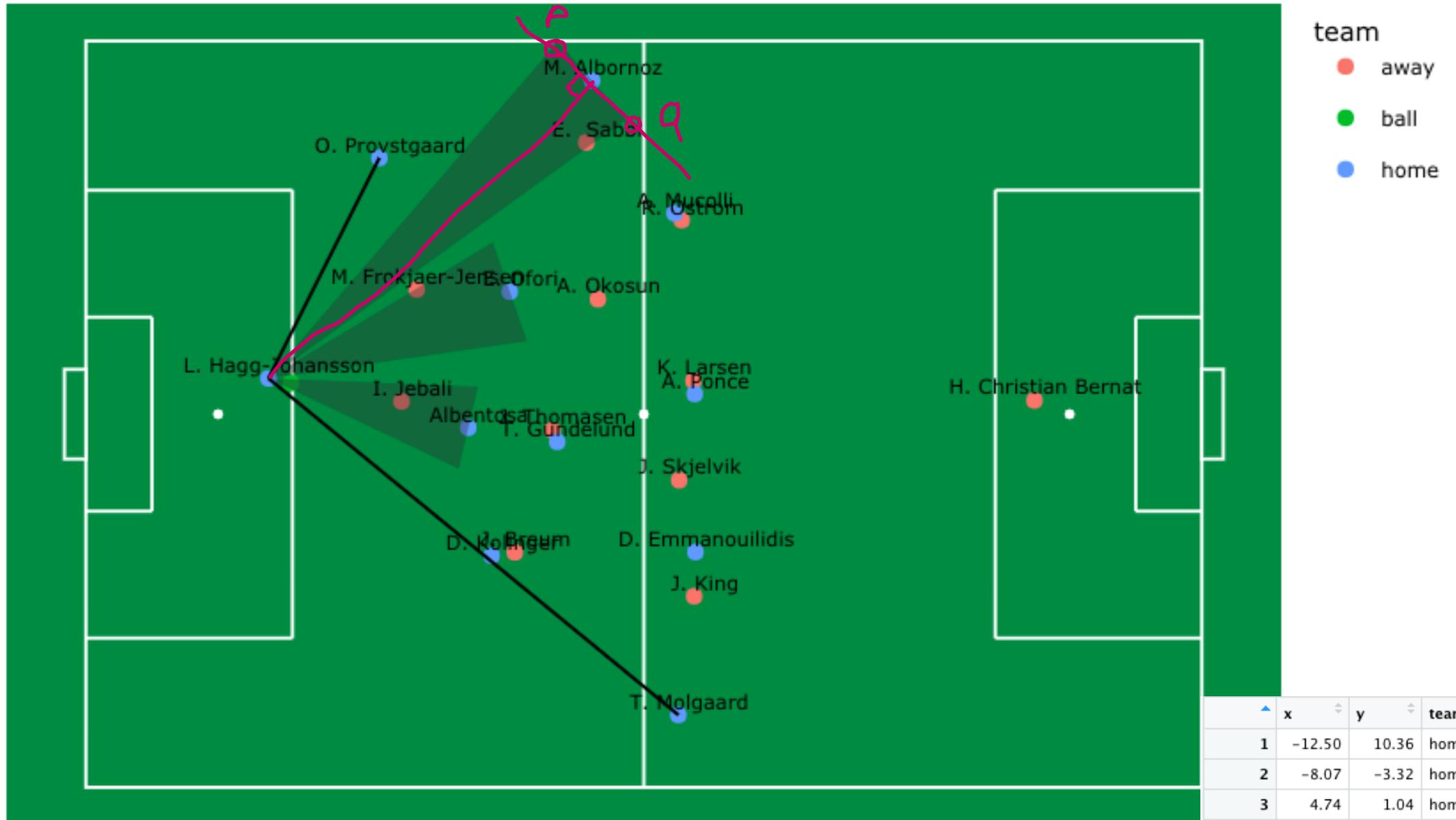
Sat May 21 2022 18:55:43

1653152143507
2919.6

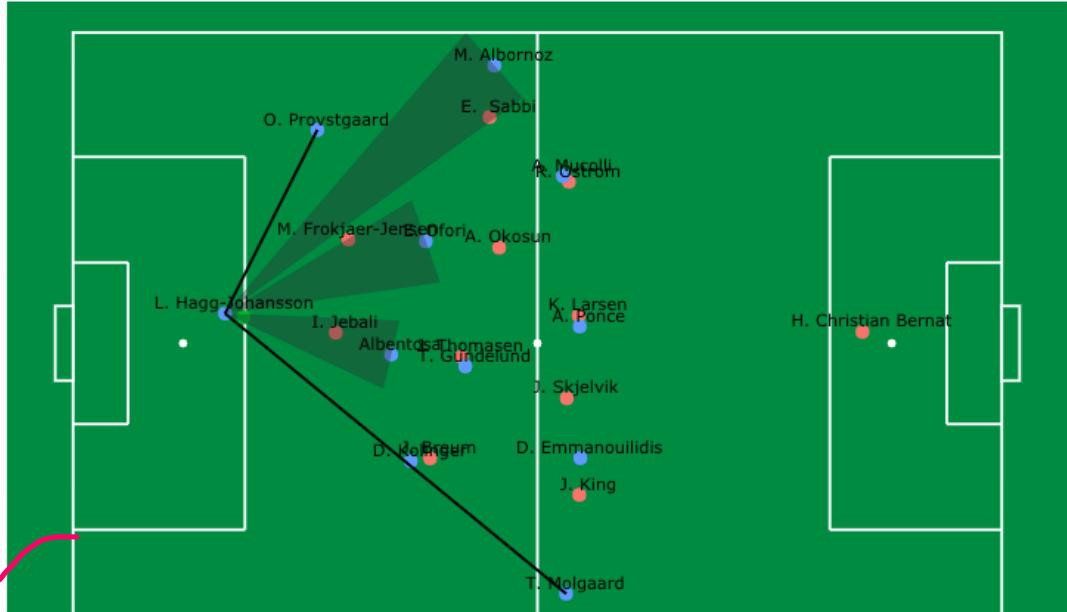
Simple passmap for frame 38503



Simple passmap for frame 38503



Simple passmap for frame 38503



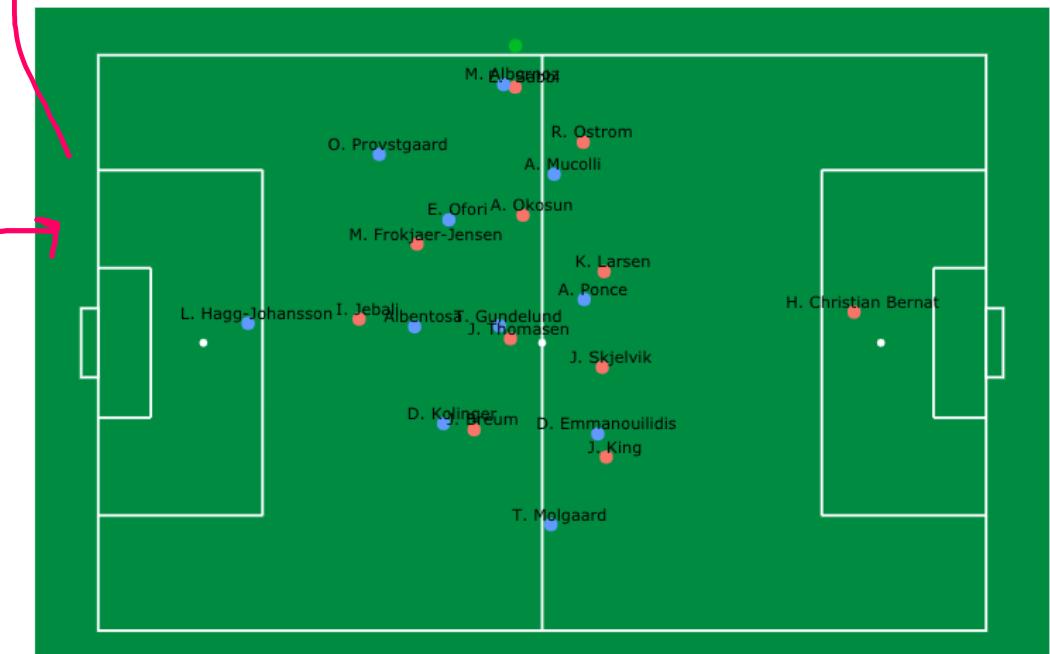
Simple passmap for frame 38560



Simple passmap for frame 38980



Simple passmap for frame 38580



Kvinder & Fodbold



PRIMERA DIVISIÓN FEMENINA TABLE

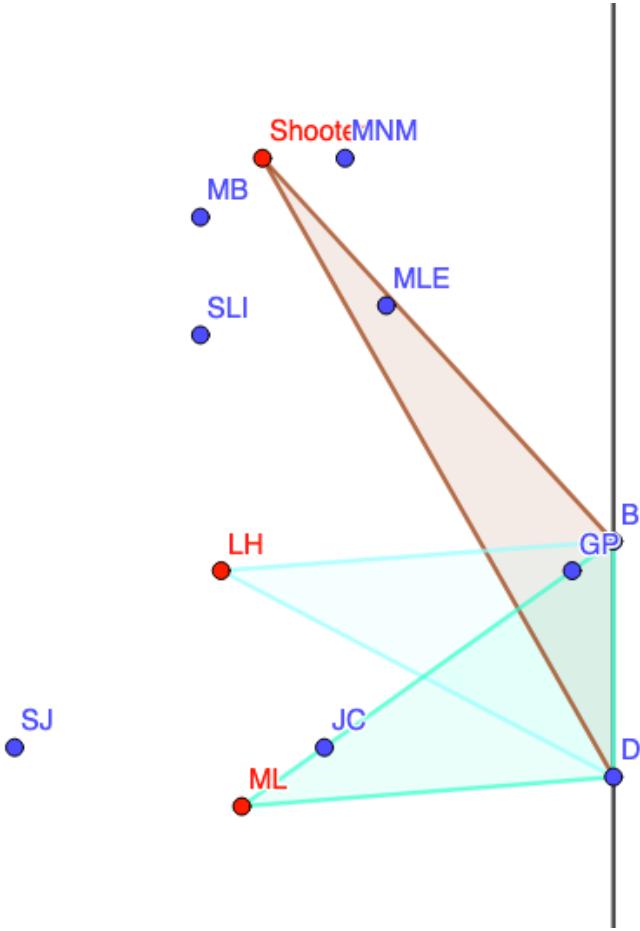
#	Team	MP	D	P
1	Barcelona	27	+138	81
2	Real Sociedad	27	+20	59
3	Atlético Madrid	27	+37	53
4	Real Madrid	27	+8	53
5	Granadilla Ten...	27	+2	53

Kvinder & Fodbold

Find all non-teammates

For each teammate

compute number of nont in triangle



```
freeze_frame: [
  {
    location: [ 102, 35 ],
    player: { id: 15547, name: 'Melissa Lawley' },
    position: { id: 24, name: 'Left Center Forward' },
    teammate: true
  },
  {
    location: [ 101, 43 ],
    player: { id: 15555, name: 'Lauren Hemp' },
    position: { id: 22, name: 'Right Center Forward' },
    teammate: true
  },
  {
    location: [ 118, 43 ],
    player: { id: 4640, name: 'Rut Hedvig Lindahl' },
    position: { id: 1, name: 'Goalkeeper' },
    teammate: false
  },
  {
    location: [ 109, 52 ],
    player: { id: 4633, name: 'Magdalena Lilly Eriksson' },
    position: { id: 5, name: 'Left Center Back' },
    teammate: false
  },
  {
    location: [ 100, 51 ],
    player: { id: 15549, name: 'Sophie Louise Ingle' },
    position: { id: 9, name: 'Right Defensive Midfield' },
    teammate: false
  },
  {
    location: [ 100, 55 ],
    player: { id: 4642, name: 'Millie Bright' },
    position: { id: 3, name: 'Right Center Back' },
    teammate: false
  },
  {
    location: [ 91, 37 ],
    player: { id: 4647, name: 'So-Yun Ji' },
    position: { id: 19, name: 'Center Attacking Midfield' },
    teammate: false
  },
  {
    location: [ 107, 57 ],
    player: { id: 10395, name: 'Maren Nævdal Mjelde' },
    position: { id: 11, name: 'Left Defensive Midfield' },
    teammate: false
  },
  {
    location: [ 106, 37 ],
    player: { id: 19422, name: 'Jessica Carter' },
    position: { id: 2, name: 'Right Back' },
    teammate: false
  }
]
```

wyscout

the football company



hudl

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WIMU **Instat**

Search...

Overview

Authentication >

Data glossary and definitions <

Pitch coordinates

Versioning >

DATABASE PACK

Areas >

Coaches >

Competitions >

Players >

Referees >

Matches >

Rounds >

Seasons >

Search >

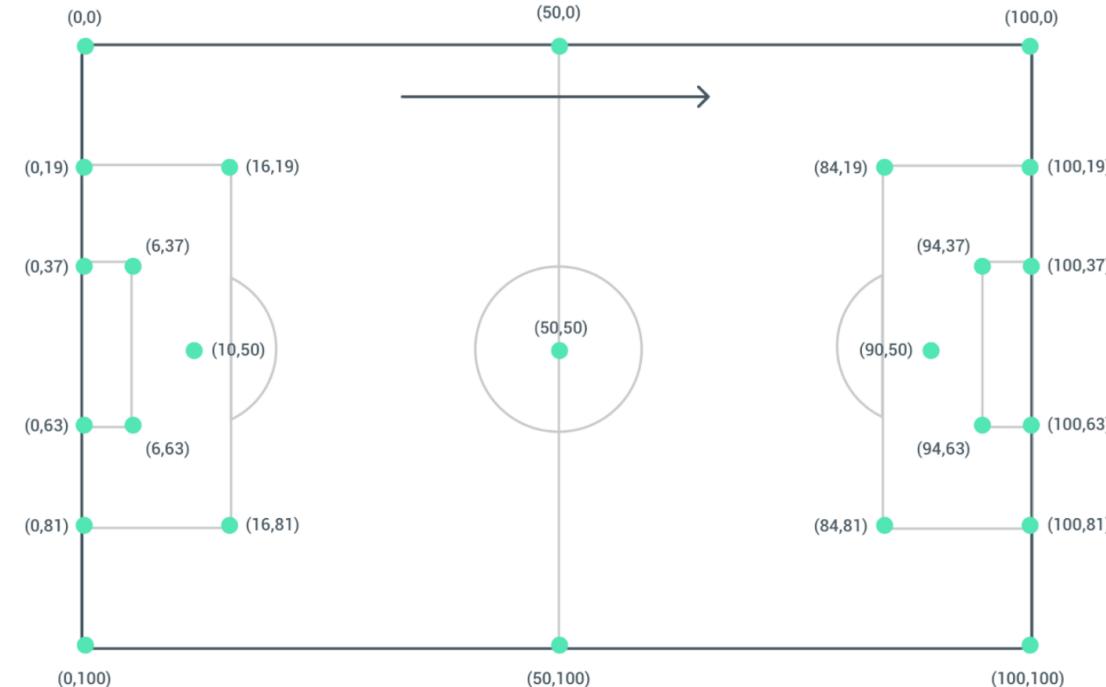
Teams >

Data glossary and definitions

At the following link you can find our Data Glossary that describes events, metrics and concepts used across the Wyscout API, Platform and reports.

[Wyscout Data Glossary](#)

Pitch coordinates



The event's coordinates depends on the subject. The subject's goal to be defended is always **x=0%** and the attack is always **x=100%**. All values are % expressed as (x,y).



```
{  
    "shot": {  
        "bodyPart": "left_foot",  
        "onTarget": true,  
        "isGoal": false,  
        "goalZone": "br",  
        "xg": 0.235,  
        "postShotXg": 0.425,  
        "goalkeeperActionId": 423860521,  
        "goalkeeper": {  
            "id": 21816,  
            "name": "D. De Gea"  
        }  
    }  
}
```

```
| => jq '.events[] | keys[]' evt_5241996.json | sort | uniq  
"aerialDuel"  
"carry"  
"groundDuel"  
"id"  
"infraction"  
"location"  
"matchId"  
"matchPeriod"  
"matchTimestamp"  
"minute"  
"opponentTeam"  
"pass"  
"player"  
"possession"  
"relatedEventId"  
"second"  
"shot"  
"team"  
"type"  
"videoTimestamp"
```

EVENTS PACK

Events

Overview

Types

Location

Possession-specific data

Attack

Event-specific data

Pass

Shot

Ground duel

Aerial duel

Infraction

Carry

MatchEvents

Search...

Overview

Authentication >

Data glossary and definitions <

Pitch coordinates

Versioning >

DATABASE PACK

Areas >

Coaches >

Competitions >

Players >

Referees >

Matches >

Rounds >

Seasons >

Search >

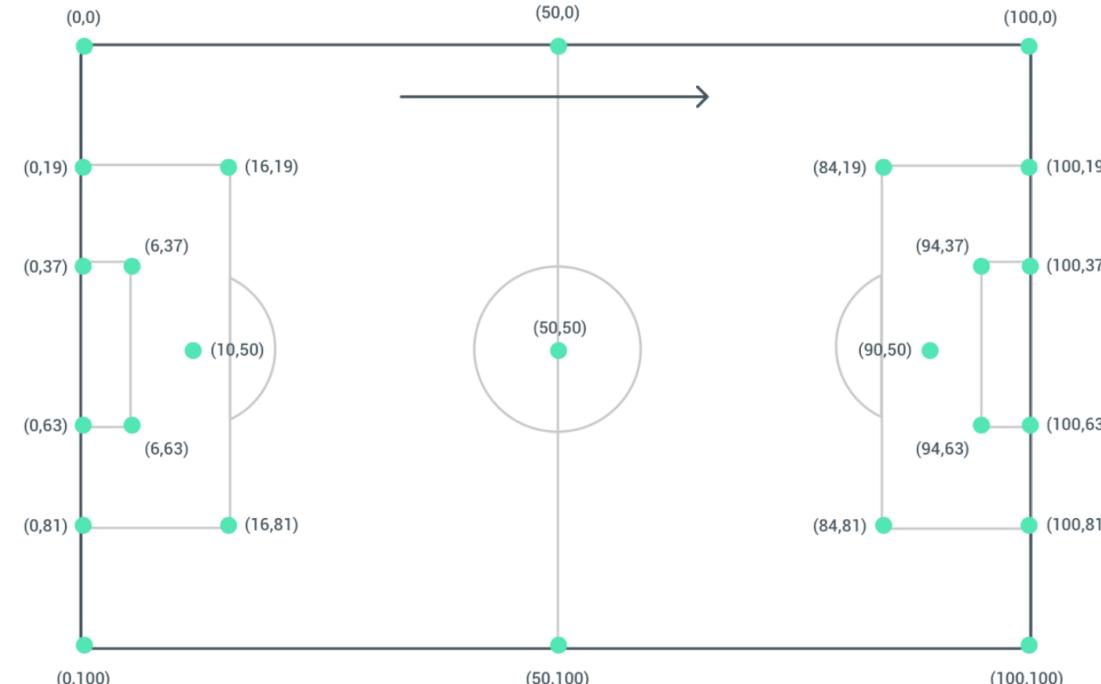
Teams >

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[Wyscout Data Glossary](#)

Pitch coordinates



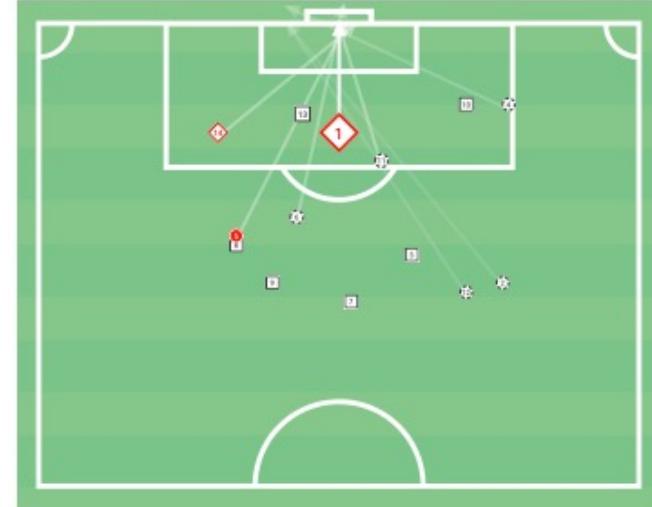
The event's coordinates depends on the subject. The subject's goal to be defended is always **x=0%** and the attack is always **x=100%**. All values are % expressed as (x,y).



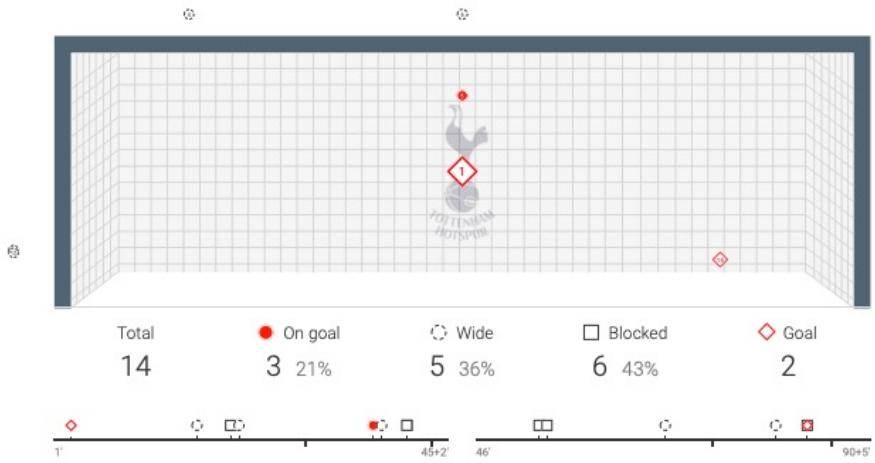
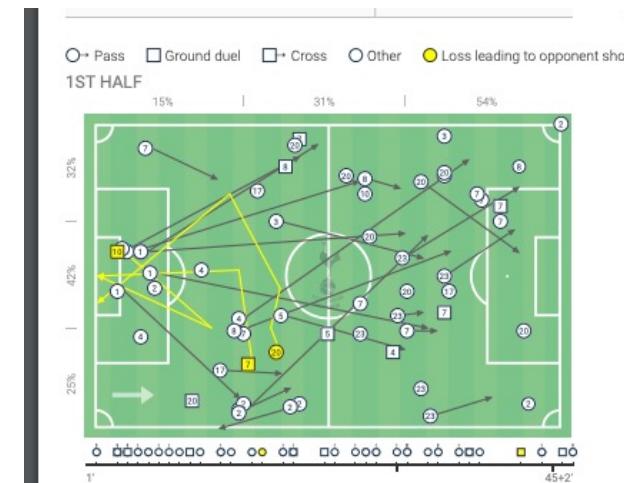
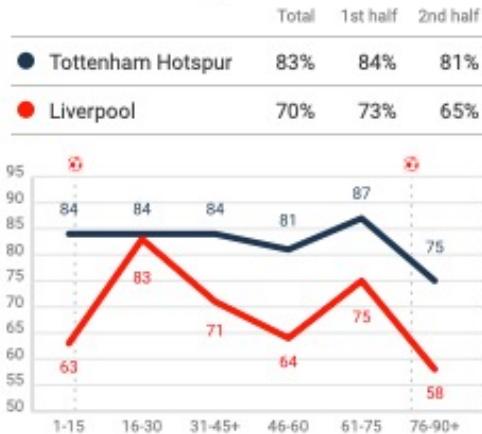
Match Report Sample

[Download](#)

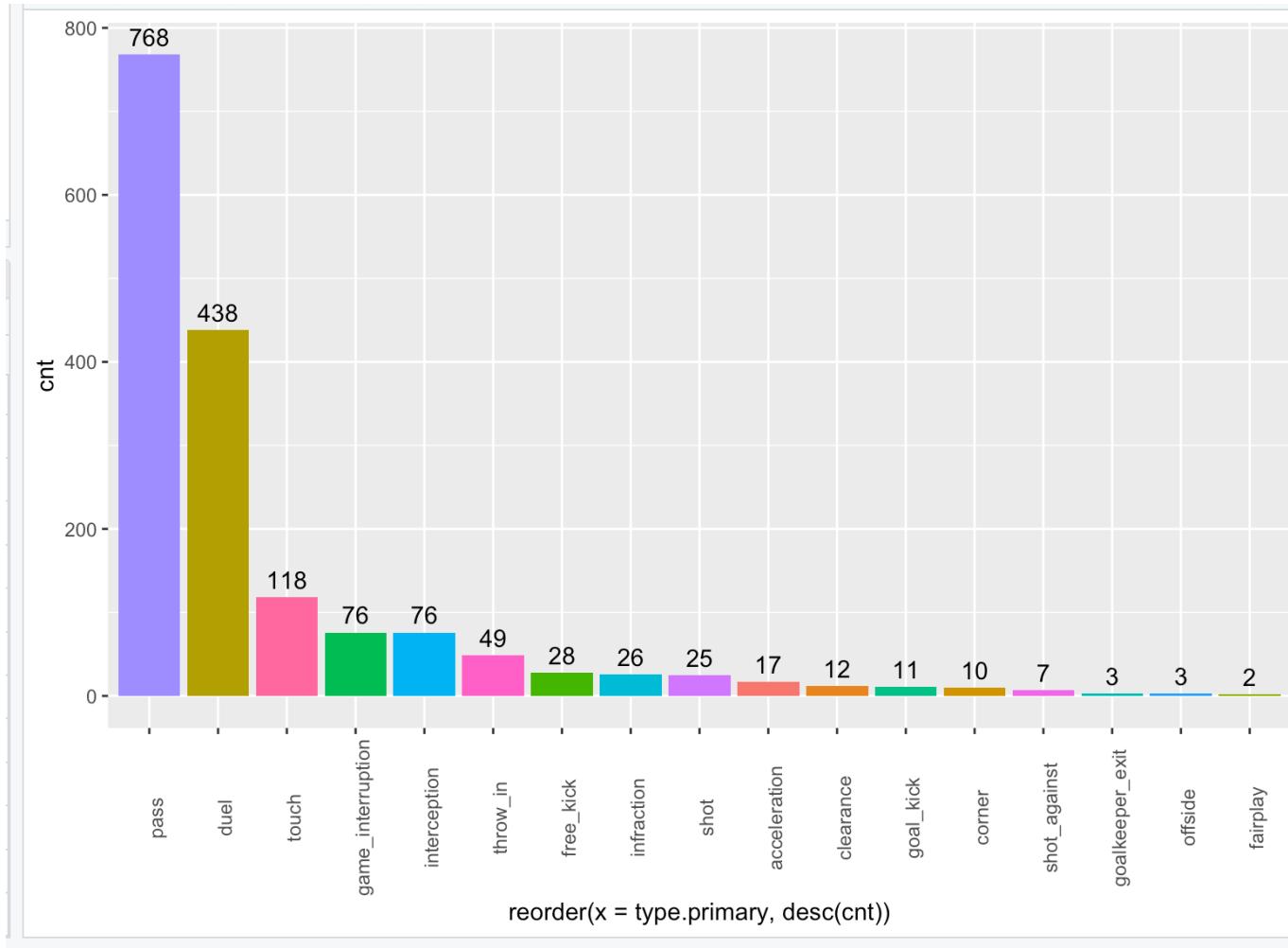
Tottenham Hotspur 0 – 2 Liverpool



Pass accuracy, %



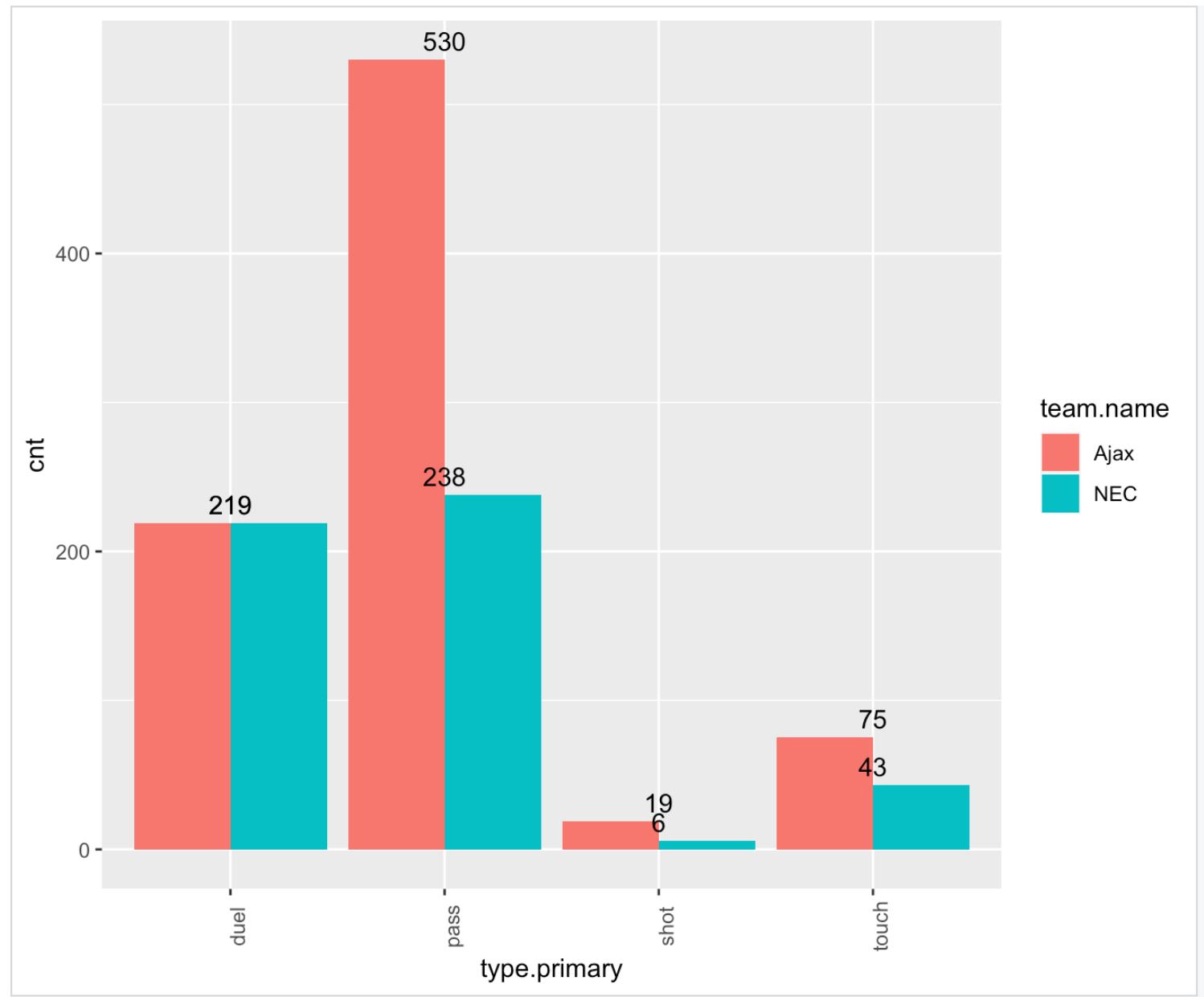
WyScout i R – Øvelse I



Frembring følgende graf – gerne med forbedringer fra evt_5360157.json

WyScout i R

Frembring følgende graf – gerne med forbedringer



Dagens DAL tjek – hent data fra el.html og konverter til dataframe

DAGLIGVARER 28. jan. 2024 - 7:24

Fylder meget i valgkamp: Pristjek af supermarket i USA og Danmark - 'jeg er faktisk overrasket'

► Læs op ≡ Kø

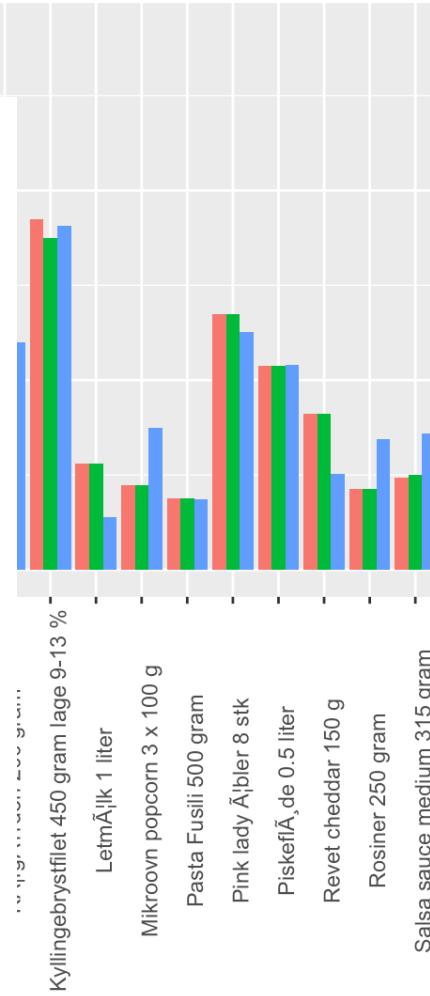


En indkøbskurv i DK og USA

Alle priser er omregnet i til sammenlignelig vægt og opgjort i danske kroner.

Varer	365 Discount	Bilka	Walmart
Agurk	8,00	8,00	5,21
Pink lady æbler 8 stk	27,00	27,00	25,07
Broccoli 1 stk	14,00	14,00	20,34
Blomkål 1 stk	16,00	17,00	19,66
Kyllingebrystfilet 450 gram læge 9-13 %	34,95	36,95	36,23
Rosiner 250 gram	8,50	8,50	13,77
Letmælk 1 liter	11,25	11,25	5,55
Danskvand m citrus 2 liter	5,05	5,03	28,83
Pasta Fusili 500 gram	7,50	7,50	7,39
Hakkede tomater 400 gram	5,95	5,95	9,04
Revet cheddar 150 g	16,50	16,50	10,07
Kærgården 200 gram	24,95	22,95	23,97
Piskefløde 0,5 liter	21,55	21,55	21,57
Salsa sauce medium 315 gram	10,00	9,75	14,38
Creme fraiche 500 ml 18 %	15,95	15,95	14,18
Bølgeskærme pommes frites 1 kg	17,95	19,95	26,03
Hel kylling 1350 gram	56,95	56,90	4,45
Mikroovn popcorn 3 x 100 g	8,95	8,95	14,92
Cornflakes 500 gram	12,50	14,75	16,03
Æblejuice fra koncentrat 1,5 liter	9,45	9,35	17,74
Samlet pris	332,95	337,78	334,43

Hent data • Lavet med Datawrapper



as.factor(shop)

- Bilka
- Discount365
- Walmart

MongoDB

```
mongorestore --db wyscout ~/Downloads/games.bson
```