# The Beautiful Game

Investigating European Soccer Database

Data

- Obtained from Kaggle
- Over 25k matches
- 10k+ player records
- 7 tables and 199 columns
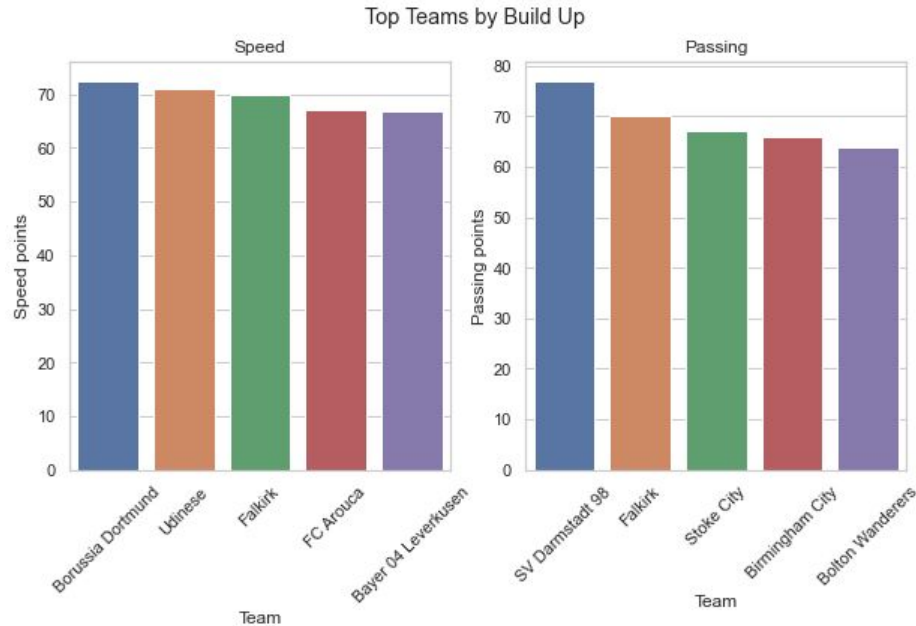- Credit goes to Hugo Mathien

	type	name	tbl_name	rootpage	sql
0	table	sqlite_sequence	sqlite_sequence	4	CREATE TABLE sqlite_sequence(name,seq)
1	table	Player_Attributes	Player_Attributes	11	CREATE TABLE "Player_Attributes" (\n\t`id`\tIN...
2	table	Player	Player	14	CREATE TABLE `Player` (\n\t`id`\tINTEGER PRIMA...
3	table	Match	Match	18	CREATE TABLE `Match` (\n\t`id`\tINTEGER PRIMAR...
4	table	League	League	24	CREATE TABLE `League` (\n\t`id`\tINTEGER PRIMA...
5	table	Country	Country	26	CREATE TABLE `Country` (\n\t`id`\tINTEGER PRIM...
6	table	Team	Team	29	CREATE TABLE "Team" (\n\t`id`\tINTEGER PRIMARY...
7	table	Team_Attributes	Team_Attributes	2	CREATE TABLE `Team_Attributes` (\n\t`id`\tINTE...

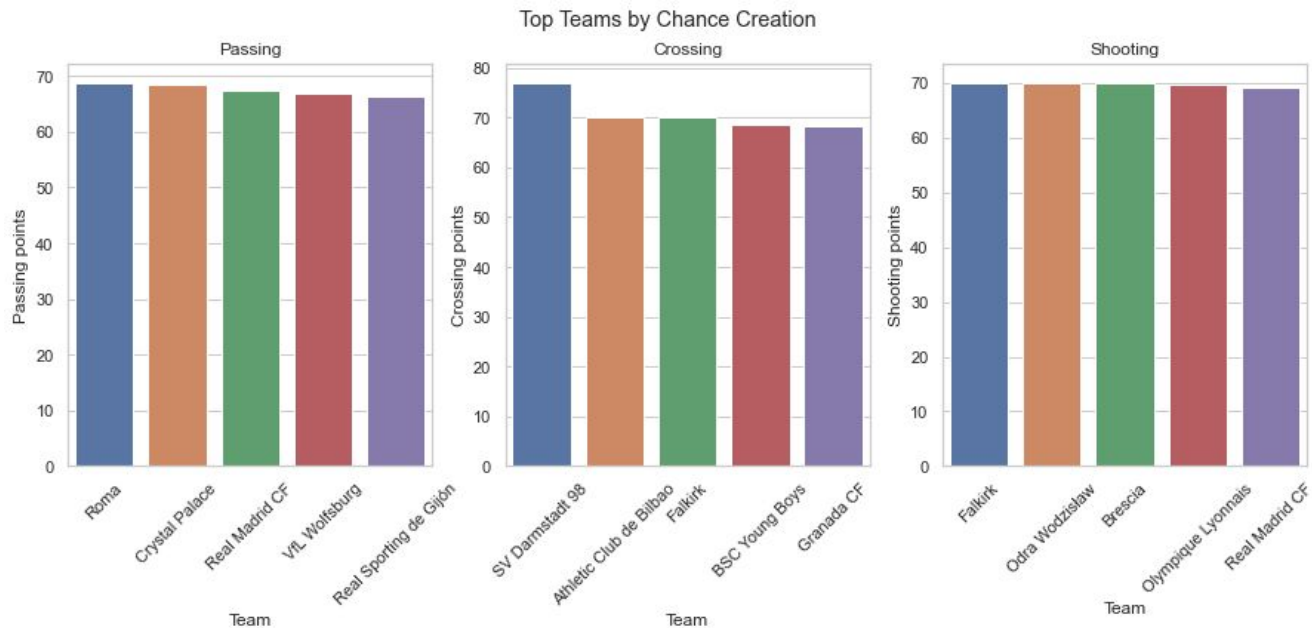# Question 1: Which team had scored the most goals from 2008 to 2016?

Top 5 teams with most goals from 2008 to 2016
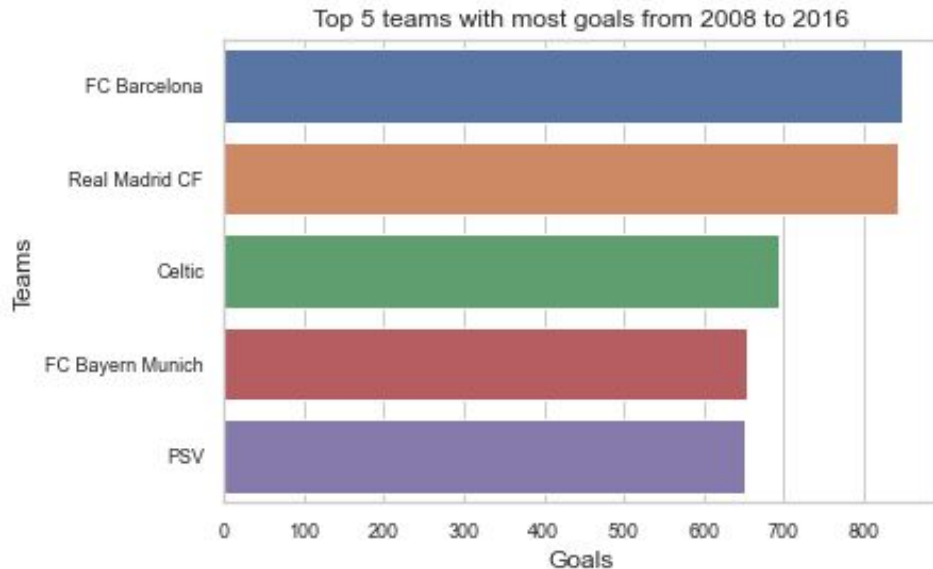
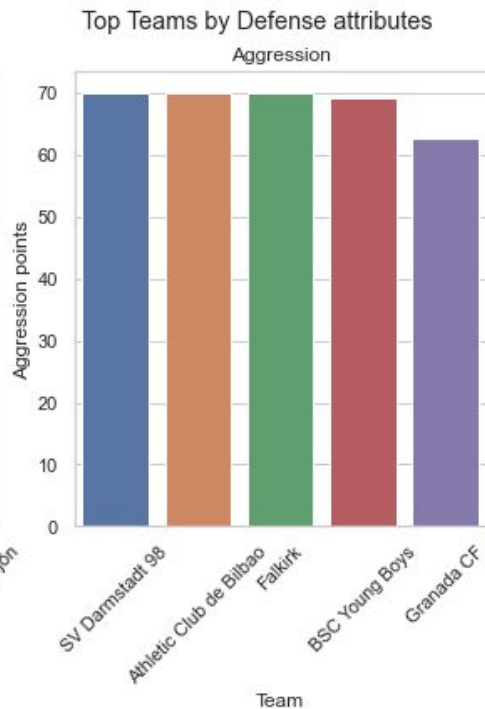|	Team	Goals
75	FC Barcelona	849
211	Real Madrid CF	843
49	Celtic	695
77	FC Bayern Munich	653
184	PSV	652
15	Ajax	647
76	FC Basel	619
161	Manchester City	606
51	Chelsea	583
162	Manchester United	582

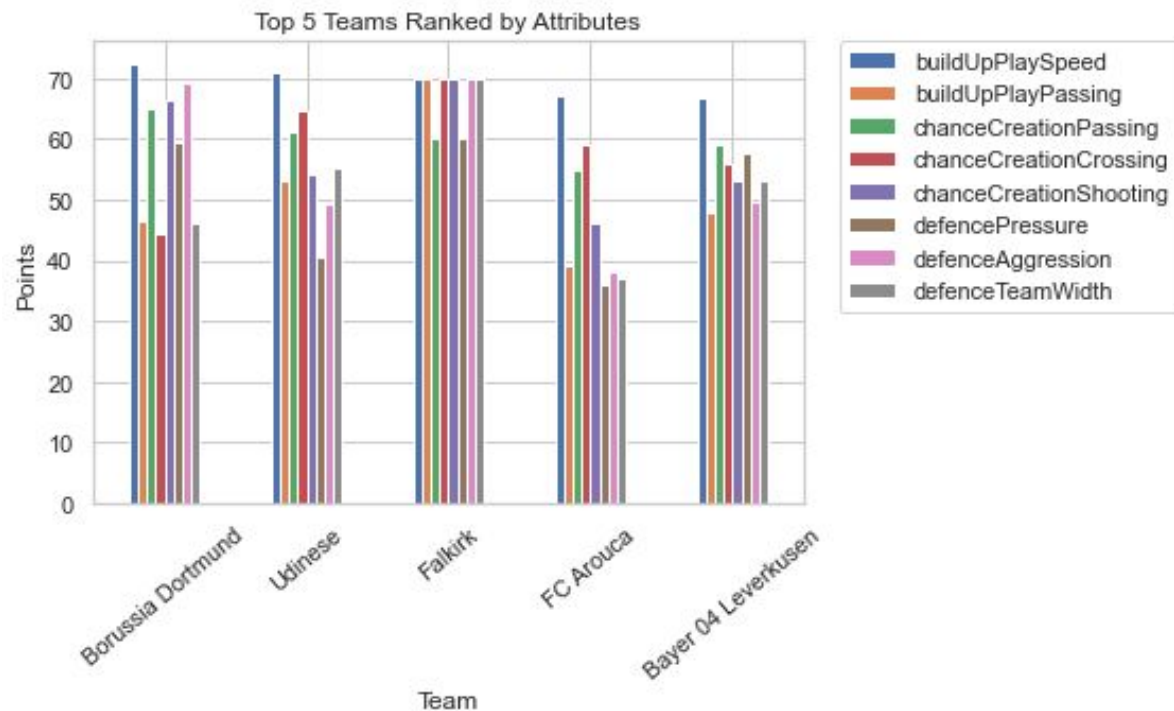# Question 2: What team improved the most over the time period?

Top Teams by Build Up

Cont.

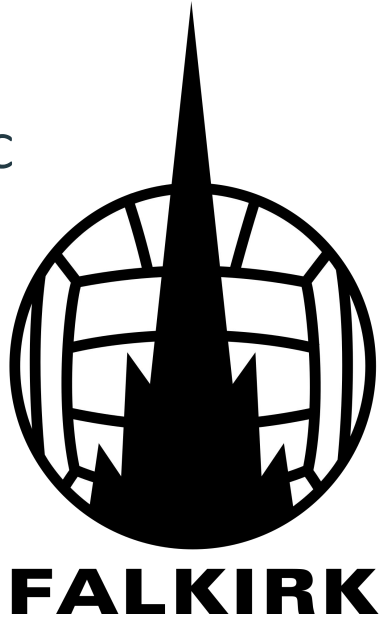# Cont

Top Teams by Defense attributes

Cont

Top 5 Teams Ranked by Attributes
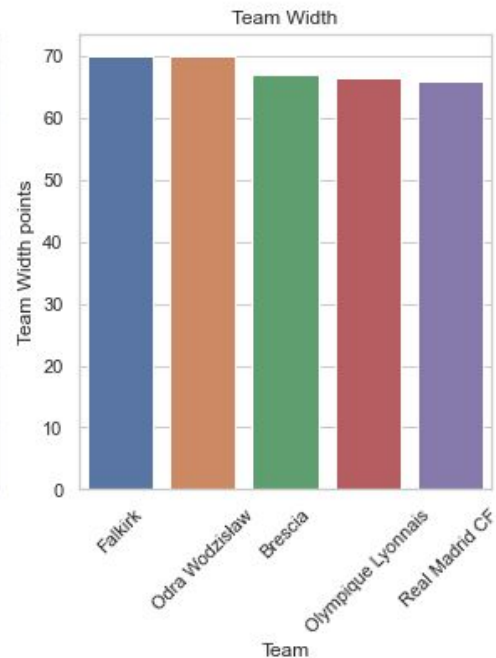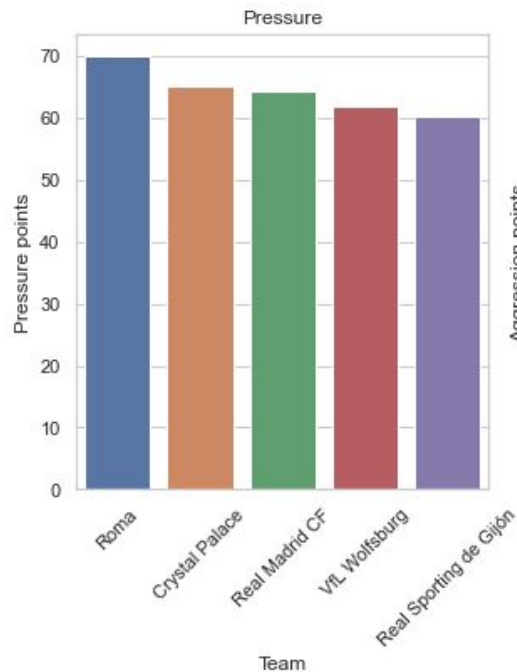
Cont. Who is the common denominator?

Falkirk F.C


FALKIRK

Credit goes to Mr. Abdulelah Alnajem from Ministry of Sport for pointing out the anomaly in this question. It turns out the "Penalties" column reference to the attribute of players fetched from FIFA game API (i.e how accurate players in shooting penalties in FIFA video game); therefore, no sufficient information we can pull to answer this question. As a result, changing the question is necessary.

~~Question 3: Which player had the most penalties?~~
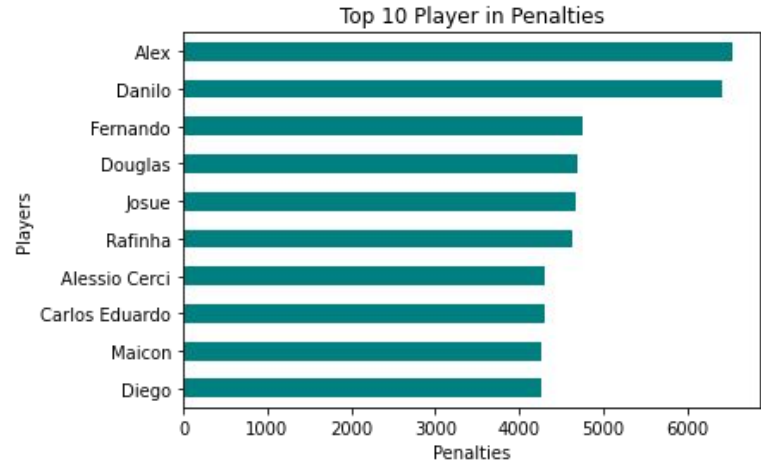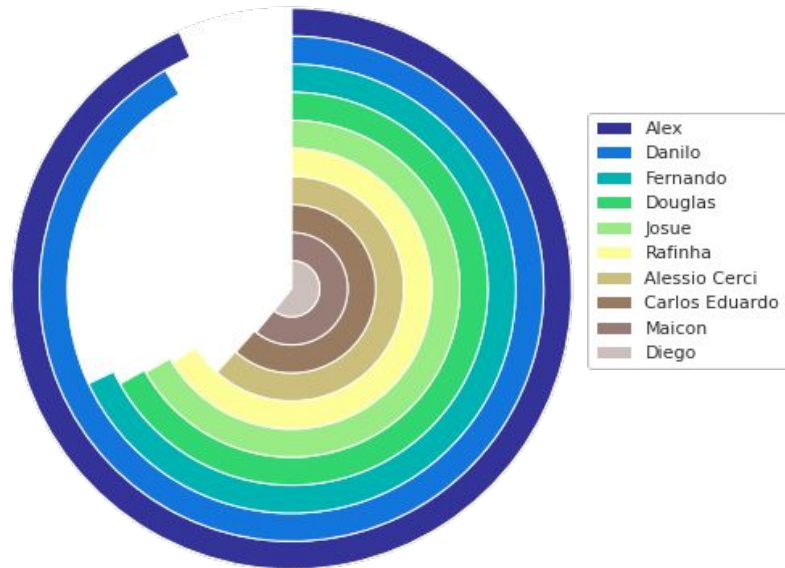
Question 3: Which league had the maximum number of goals?

Top 10 Leagues by number of goals
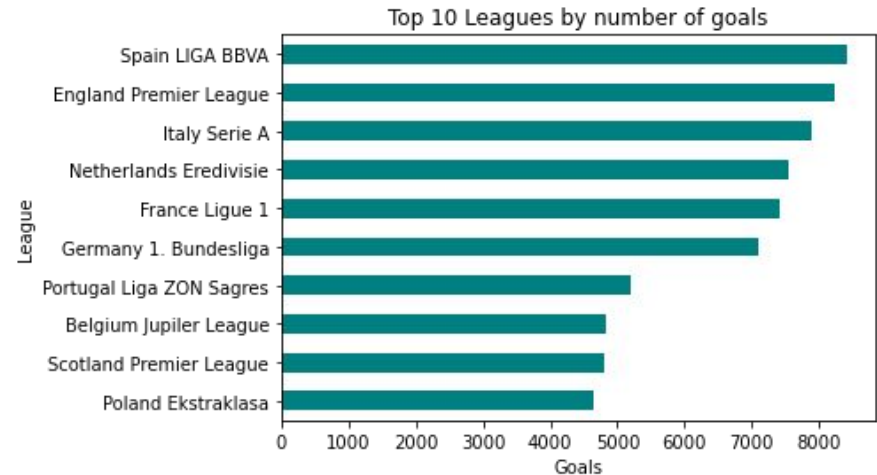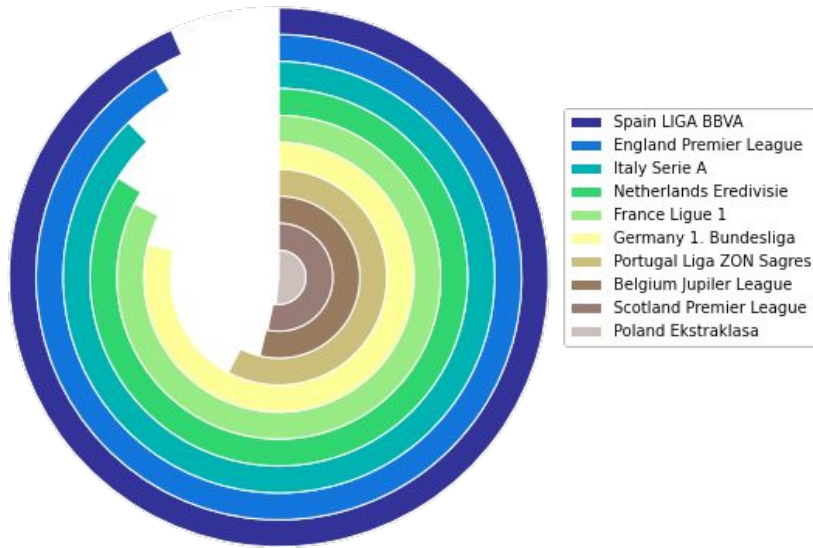
Lessons Learned

- Allocate time
- Version control save lives!
- Jupyter notebook checkpoints