From Data to Social Media



How to Create a Football Visualization from Scratch

1. Introduction

"This guide helps you go from a raw dataset to a beautiful visualization using Python. Perfect for beginners who want to share meaningful insights on social media."







1. Load Your Data

CSV file with event data from Wyscout, StatsBomb, etc.

Make sure to check your columns!



PS. Exploring the types of events helps you decide what to visualize — passes, fouls, shots, defensive actions, etc. Think like a coach or analyst!

2. Choose what you want to show

For example:

I want to show Ali Abdi's shooting and defensive actions.

```
python O'Copie '9' Modifier

# Shots
shots = data[data['isshot'] == True]

# Defensive actions
def_events = ['Tackle', 'Clearance', 'Aerial', 'MallRocovery', 'BlockedPass', 'Save', 'Interceptio
def_data = data[data['type']_isin(def_events)]
```

This is the most important step: choose wisely the actions that are relevant to your story (e.g., only goals, tackles, or passes in the final third).

3. Structuring data for vizz

Here we prepare each type of shot (goal, missed, saved)

4. <u>Create the vizZ</u>

Now your data comes to life! Customize size, color, and markers to highlight the insight.

Add context to make your visuals more compelling

- 5. Add a touch of design
- 🤔 Use a cool font (FontManager)
- Add a clean title and caption
- 📏 Adjust point sizes for Twitter/Instagram



A clear design improves readability and makes your work more appealing for social media. Think about aesthetics and clarity.

6. Save the visualization

After building your plot with Python, don't forget to save it!

Save in high resolution so your graphic looks clean when shared online or in presentations.

3. Key Tips

- Keep your code clean and modular
- ✓ Focus on one type of insight per visual
- ✓ Use colors and size to guide attention
- ✓ Export high-resolution files for social media
- Always mention the source of data

Challenge Time!

You've seen how to turn raw data into powerful visualizations.

Now it's your turn!

Create a heatmap of Ali Abdi's defensive actions using Python and mplsoccer.

→ Want to shine?

Post your work on LinkedIn and tag me — I'll share some of your visualizations on my profile and celebrate your progress with the community!

Need help?

Check the tutorial notebook on GitHub to see how to complete the challenge step by step.

Let's show the world what new football analysts can do!

Thank you for reading!



Sara Bentelli

Follow me for more football data analysis insights.