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In [6]: import pandas as pd
import matplotlib.pyplot as plt
from mplsoccer.pitch import Pitch

global event_name
global savefile
player = ''
csv_name = None

def plot_soccer_events(csv_file, player_name=None, event_type=None, event_type2=None):
    """
    Plot soccer events from a CSV file.

    :param csv_file: Path to the CSV file containing soccer event data.
    :param player_name: Name of the player (default is None for all players).
    :param event_type: Type of event ('Goal' or 'shot') (default is None for all ev
    :param event_type2: Type of event ('Goal' or 'shot') (default is None for all e
    """

    # Read data from CSV file
    df = pd.read_csv(csv_file)
    global csv_name
    csv_name = str(csv_file[0:-4])
    global event_name
    event_name = str(event_type)
    global player
    player = player_name
    if player == None:
        player = "AllPlayers"
    else:
        player = player_name

    # Filter DataFrame for events by the specified player and/or event type
    if player_name:
        df = df[df['player'] == player_name] # Name
    if event_type:
        df = df[(df['type'] == event_type) | (df['type'] == event_type2)] #Event

    # Initialize pitch with green background and light grey stripes
    pitch = Pitch(pitch_type='statsbomb', line_zorder=2, pitch_color='green')

    # Create figure and axis
    fig, ax = pitch.draw(figsize=(16,8))

    # Adjust coordinates
    df['x'] *= 1.2 # x, y, x2, y2
    df['y'] *= 0.8
    df['endX'] *= 1.2
    df['endY'] *= 0.8

    # Plot arrows
    for _, row in df.iterrows():

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        color = 'red' if row['type'] == event_type else 'blue' # event
        pitch.arrows(row['x'], row['y'], row['endX'], row['endY'], width=1.5, color
        pitch.scatter(row['x'],row['y'], color = 'white', ax=ax, s = 16)

# Show plot troubleshooting only

plt.show()

"""
Using player name as =None shows all players, having event_type as "Goal" and ev2 a
This also works with both set as Pass
Dont set all to None as it looks dumb...
"""

# Example usage:

plot_soccer_events('F:/My Drive/Soccer Analytics Exports/Shot Pass Map/shotexample.
#Show plot above is for troubleshooting only. it will break.

if player == None:
    savefile = str(csv_name+'_'+ 'AllPlayers'+event_name+'.png')
else:
    savefile = str(csv_name).strip()+"_"+str(player).strip()+str(event_name)+'.png'

#savefile = str(csv_name).strip()+"_"+str(player).strip()+str(event_name)+'.png'
plt.savefig(savefile, bbox_inches='tight', pad_inches=0, dpi= 300)
#savefile #Troubleshooting display of savefile

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