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nce
```python
    out["_orig_idx"] = out.index
    out["_zipped"] = out.apply(lambda r: list(zip(*(r[c] for c
in list_cols))), axis=1)

    exploded = out.explode("_zipped", ignore_index=False)

    # Create sequential frame_id 0..N-1 within each original row
    # exploded[frame_col] = exploded.groupby("_orig_idx").cumcou
nt()
    exploded[frame_col] = exploded.groupby("_orig_idx").cumcoun
t() + 1


    # Unpack zipped tuples back into individual columns
    for i, c in enumerate(list_cols):
        exploded[c] = exploded["_zipped"].apply(lambda t: t[i]
if pd.notna(t) else np.nan)

    # Cleanup
    exploded = exploded.drop(columns=["_zipped", "_orig_idx"]).
reset_index(drop=True)
    return exploded



# example list columns you want to explode in sync
# list_cols = ["x", "y", "arxy_seq"]
list_cols = ["x", "y", "arxy_seq", "coeffs_seq"]

long_df = explode_with_frame_id(df.drop(columns=['xc', 'yc']),
list_cols=list_cols, frame_col="frame_id")
```

/tmp/ipykernel_47/632516100.py:19: FutureWarning: DataFrame.ap
plymap has been deprecated. Use DataFrame.map instead.
  bad = out[list_cols].applymap(len).nunique(axis=1) > 1

In [42]:
```python
# len_df = df[list_cols].map(lambda v: len(v) if isinstance(v,
(list, tuple, np.ndarray)) else 0)
# print(len_df.head())
# print("Rows with unequal lengths:\n", len_df[len_df.nunique(ax
is=1) > 1].head(12))
```
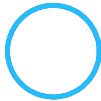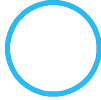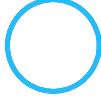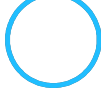
In [43]:
```python
df.columns
```

Out[43]:
```
Index(['game_id', 'play_id', 'nfl_id', 'a', 'b', 'c', 'd',
'e', 'f', 'arxy',
       'x', 'y', 'player_side', 'player_role', 'route_ran', 'w
```

Version History

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