Project Bluecoats - Score Analysis And Visualization

Read Me

Purpose

This notebook visualizes the performance progression of the Bluecoats Drum Corps across selected seasons, using caption-level DCI scoring data.

The report aims to identify scoring patterns, highlight major performance shifts, and compare caption scores (**General Effect**, **Visual**, and **Music**) across the seasons.

Data Source

- "https://www.dci.org/scores/"
- Contains show-level scoring data for the Bluecoats, including overall scores and individual captions.

Collection & Cleaning DCI.org

- Initial Parsing
- Updating Latest Show Data
- Dataframes Displays

Visualization

- Preparation
- Total Score Graph
- Caption Score Graphs

Future Outlook...

Enjoy!

Author

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July 2025

In [1]: import requests
 from bs4 import BeautifulSoup
 import pandas as pd
 from pprint import pprint
 import importlib

Colletion and Cleaning DCI.org

Inital Parsing

Loops through all the shows documented on dci.org and writes the caption and sub caption scores into a csv file notated by date, location, corp name into a score_by_show&corp.csv

```
In []: import find_show_info as fds
  importlib.reload(fds)
  fds.scrape_dci_recaps_selenium()
  fds.build_show_score_list()
  fds.build_show_score_df()
```

Updating Lastest Shows

Updates the lastest shows and write it to score_by_show.csv (name slightly different for differentiating purpose).

```
In [3]: import find_show_info as fds
importlib.reload(fds)
fds.build_lastest_show_score_df()
```

```
    to build lastest show score list

    to find latest show list

running find lastest show links
Scraping year 2025
 → Page 1...  running build_latest_show_list
Successfully fetched shows at Nashville, TN on July 25, 2025
🗹 successfully fetched shows at Birmingham, AL on July 25, 2025
☑ successfully fetched shows at Madison, WI on July 25, 2025
error 1: no world class at Dover, PA on July 25, 2025
successfully fetched shows at Evansville, IN on July 23, 2025
error 1: no world class at Brunswick, OH on July 23, 2025
🗹 successfully fetched shows at Belleville, IL on July 22, 2025
error 1: no world class at Bellbrook, OH on July 22, 2025
🗹 successfully fetched shows at McKinney, TX on July 21, 2025

☑ updated score recap.csv

M M M all done!!!
running build lastest show score df
['0', '1', '5']
['0', '1', '11']
['0', '1', '17']
['0', '1', '23']
['0', '1', '29']
          '35']
['0', '1',
['0', '1', '41']
['0', '1', '47']
['0', '1', '53']
['0', '1', '59']
['0', '1',
          '65']
['0', '1', '71']
['0', '1', '77']
['0', '1', '83']
['0', '1', '89']
['0', '1', '95']
['0', '1', '101']
['0', '1', '107']
['0', '1', '113']
['0', '1', '119']
['0', '1', '125']
['0', '1', '131']
          '137']
['0', '1',
['0', '1', '143']
['0', '1', '149']
['0', '1', '155']
['0', '1', '161']
['0', '1', '167']
['0', '1', '173']
['0', '1',
          '179']
['0', '1', '185']
['0', '1', '191']
['0', '1', '197']
['0', '1', '203']
          '209'1
['0', '1',
['0', '1', '215']
['0', '1', '221']
['0', '1', '227']
['0', '1', '233']
```

```
['0', '1', '239']
['July 31, 2022', 'Winston-Salem, NC', 'Carolina Crown']
['July 30, 2019', 'Salem, VA', 'The Academy']
['July 12, 2019', 'Casper, WY', '7.800|2|7.700|2|15.500|2|8.200|1|7.800|1|1
6.000|1|31.500|2']
['July 12, 2019', 'Casper, WY', '7.900|2|7.700|2|15.600|2|8.100|1|7.700|2|1
5.800|1|31.400|2']
['July 12, 2019', 'Casper, WY', '70.300|3']
△ Skipping 64.700|4 on July 12, 2019, Casper, WY — 3 values vs 13 columns
['July 9, 2019', 'Sioux City, IA', '8.000|1|7.800|1|15.800|1|8.100|1|7.900|1
|16.000|1|31.800|1']
['July 9, 2019', 'Sioux City, IA', '7.900|2|7.700|2|15.600|2|7.900|2|7.400|3
115.30012130.90012']
▲ Skipping 76.000|3 on July 9, 2019, Sioux City, IA — 5 values vs 13 column
['July 1, 2019', 'Mesa, AZ', '8.000|1|8.100|1|16.100|1|7.900|1|7.700|1|15.60
0|1|31.700|1']
['July 1, 2019', 'Mesa, AZ', '7.700|2|7.400|2|15.100|2|7.800|2|7.500|2|15.30
0|2|30.400|2']
['July 1, 2019', 'Mesa, AZ', '67.400|3']
△ Skipping 66.200|4 on July 1, 2019, Mesa, AZ — 3 values vs 13 columns
['August 11, 2018', 'Indianapolis, IN', 'Special|Special GE|J. Missing|Thur|
Fri|TOT|Special - Visual Proficiency|J. Missing|Thur|Fri|TOT|Special Brass|
J. Missing|Thur|Fri|TOT|Special CG|J. Missing|Thur|Fri|TOT|Special Perc|J. M
issing|Thur|Fri|T0T|T0T']
['August 11, 2018', 'Indianapolis, IN', '98.625|1']
['August 11, 2018', 'Indianapolis, IN', '38.500|3|38.775|3|77.275|3|19.000|3
| 19.350|2|38.350|2|19.250|3|19.250|4|38.500|3|19.200|1|19.300|4|38.500|2|19.
000|2|19.500|2|38.500|2|231.125|2']
['August 11, 2018', 'Indianapolis, IN', '9.600|4|9.700|3|19.300|4|9.900|1|9.
600|3|19.500|1|9.700|4|9.600|4|19.300|4|9.250|7|9.400|4|18.650|5|28.675|4']
['August 11, 2018', 'Indianapolis, IN', '9.550|5|9.500|4|19.050|4|9.550|4|9.
400|5|18.950|4|9.200|8|9.450|6|18.650|7|28.325|5']
['August 11, 2018', 'Indianapolis, IN', '93.213|6']
['August 11, 2018', 'Indianapolis, IN', '92.225|7']
['August 11, 2018', 'Indianapolis, IN', '35.775|8|36.500|8|72.275|8|17.450|8
|17.800|8|35.250|8|17.900|8|17.900|8|35.800|8|18.100|8|18.300|7|36.400|7|17.
000|11|17.650|9|34.650|10|214.375|8']
['August 11, 2018', 'Indianapolis, IN', '9.100|8|8.900|9|18.000|9|9.000|9|8.
900|9|17.900|9|9.000|9|8.800|9|17.800|9|9.200|8|9.000|8|18.200|8|27.025|8']
['August 11, 2018', 'Indianapolis, IN', '9.000|9|8.600|11|17.600|9|9.100|9|
8.900|9|18.000|9|9.100|9|9.000|9|18.100|9|26.850|9']
⚠ Skipping 86.750|12 on August 11, 2018, Indianapolis, IN — 3 values vs 13
columns
['August 3, 2018', 'Allentown, PA', 'Bluecoats']
['August 3, 2018', 'Allentown, PA', 'Blue Devils']
['August 3, 2018', 'Allentown, PA', 'Phantom Regiment']
▲ Skipping Phantom Regiment on July 23, 2018, Mesquite, TX — 7 values vs 13
columns
△ Skipping Phantom Regiment on July 14, 2018, DeKalb, IL — 7 values vs 13 c
olumns
['July 13, 2018', 'Casper, WY', '7.600|1|7.400|1|15.000|1|7.500|1|7.300|1|1
4.800|1|29.800|1']
['July 13, 2018', 'Casper, WY', '7.000|3|6.900|2|13.900|2|6.800|3|6.800|2|1
3.600 | 2 | 27.500 | 2 ' ]
['July 13, 2018', 'Casper, WY', '66.800|3']
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Skipping 62.600|4 on July 13, 2018, Casper, WY — 3 values vs 13 columns
['July 10, 2018', 'Sioux City, IA', '7.800|2|7.600|2|15.400|2|8.000|2|7.800|
1|15.800|2|31.200|2']
['July 10, 2018', 'Sioux City, IA', '7.800|2|7.200|2|15.000|2|8.100|1|7.700|
2|15.800|2|30.800|2']
['July 10, 2018', 'Sioux City, IA', '73.800|3']
▲ Skipping 67.300|4 on July 10, 2018, Sioux City, IA — 3 values vs 13 colum
['July 10, 2018', 'Boise, ID', '8.600|1|8.500|1|17.100|1|8.500|1|8.200|1|16.
700|1|33.800|1']
['July 10, 2018', 'Boise, ID', '7.700|2|7.400|2|15.100|2|7.600|2|7.400|2|15.
000|2|30.100|2']
['July 10, 2018', 'Boise, ID', '72.400|3']
['July 10, 2018', 'Boise, ID', '66.900|4']
⚠ Skipping Seattle Cascades on July 10, 2018, Boise, ID — 11 values vs 13 c
olumns
['July 9, 2018', 'Tri Cities, WA', '8.500|1|8.300|1|16.800|1|8.600|1|8.400|1
|17.000|1|33.800|1']
['July 9, 2018', 'Tri Cities, WA', '8.100|2|7.700|2|15.800|2|7.800|2|7.400|2
|15.200|2|31.000|2']
['July 9, 2018', 'Tri Cities, WA', '74.100|3']
['July 9, 2018', 'Tri Cities, WA', '71.200|4']
['July 9, 2018', 'Tri Cities, WA', 'Oregon Crusaders']
▲ Skipping 6.300|7|6.200|7|12.500|7|6.200|7|6.000|7|12.200|7|24.700|7 on Ju
ly 9, 2018, Tri Cities, WA - 9 values vs 13 columns
A Skipping 7.300|1|7.200|1|14.500|1|7.700|1|7.400|1|15.100|1|29.600|1 on Ju
ly 6, 2018, Sacramento, CA - 9 values vs 13 columns
['July 3, 2018', 'Cedarburg, WI', '8.000|1|7.800|1|15.800|1|7.700|1|7.500|1|
15.200|1|31.000|1']
['July 3, 2018', 'Cedarburg, WI', '7.300|3|7.200|2|14.500|2|7.000|3|6.800|3|
13.800|3|28.300|3']
['July 3, 2018', 'Cedarburg, WI', '72.000|3']
['July 3, 2018', 'Cedarburg, WI', '67.900|4']
['July 3, 2018', 'Cranston, RI', '8.300|1|8.000|1|16.300|1|8.100|1|8.000|1|1
6.100|1|32.400|1']
['July 3, 2018', 'Cranston, RI', '8.000|2|7.800|2|15.800|2|8.400|1|7.900|2|1
6.300|1|32.100|1']
['July 3, 2018', 'Cranston, RI', '77.100|3']
▲ Skipping 69.800|4 on July 3, 2018, Cranston, RI — 3 values vs 13 columns
['June 30, 2018', 'Allentown, PA', '8.000|1|7.800|1|7.800|1|7.900|1|7.700|1
|15.600|1|31.400|1']
['June 30, 2018', 'Allentown, PA', '7.600|2|7.200|2|14.800|2|7.800|2|7.300|2
|15.100|2|29.900|2']
['June 30, 2018', 'Allentown, PA', '66.400|3']
▲ Skipping 60.600|4 on June 30, 2018, Allentown, PA — 3 values vs 13 column
['June 28, 2018', 'Pittsburgh, PA', '7.900|1|7.800|1|15.700|1|7.800|1|7.500|
1|15.300|1|31.000|1']
['June 28, 2018', 'Pittsburgh, PA', '7.300|2|7.000|2|14.300|2|7.700|2|7.300|
2|15.000|2|29.300|2']
['June 28, 2018', 'Pittsburgh, PA', '71.400|3']
['June 28, 2018', 'Pittsburgh, PA', '65.700|4']
△ Skipping Pioneer on June 28, 2018, Pittsburgh, PA — 11 values vs 13 colum
ns
['June 27, 2018', 'Evansville, IN', '7.700|1|7.300|1|15.000|1|7.400|1|7.100|
1|14.500|1|29.500|1']
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['June 27, 2018', 'Evansville, IN', '7.000|2|6.500|2|13.500|2|7.100|2|6.900|
2|14.000|2|27.500|2']
['June 27, 2018', 'Evansville, IN', '66.900|3']
['June 27, 2018', 'Evansville, IN', '63.800|4']
△ Skipping Music City on June 27, 2018, Evansville, IN — 11 values vs 13 co
lumns
['July 12, 2017', 'Ogden, UT', '8.600|1|8.400|1|17.000|1|8.700|1|8.500|1|17.
200|1|34.200|0']
['July 12, 2017', 'Ogden, UT', '7.800|2|7.600|2|15.400|2|8.300|2|8.000|2|16.
300 | 2 | 31.700 | 0 ' ]
['July 12, 2017', 'Ogden, UT', '74.300|3']
['July 12, 2017', 'Ogden, UT', '69.300|4']
⚠ Skipping Seattle Cascades on July 12, 2017, Ogden, UT — 11 values vs 13 c
olumns
['July 11, 2017', 'Boise, ID', '8.500|1|8.200|1|16.700|1|8.200|1|8.000|1|16.
200|1|32.900|0']
['July 11, 2017', 'Boise, ID', '7.800|2|7.500|2|15.300|2|8.100|2|7.900|2|16.
000|2|31.300|0']
['July 11, 2017', 'Boise, ID', '72.300|3']
['July 11, 2017', 'Boise, ID', '68.000|4']
⚠ Skipping Seattle Cascades on July 11, 2017, Boise, ID — 11 values vs 13 c
olumns
['July 10, 2017', 'Tri Cities, WA', '8.400|1|8.200|1|16.600|1|8.300|1|8.100|
1|16.400|1|33.000|0']
['July 10, 2017', 'Tri Cities, WA', '7.800|2|7.400|2|15.200|2|8.000|2|7.700|
2|15.700|2|30.900|0']
['July 10, 2017', 'Tri Cities, WA', '66.300|3']
△ Skipping 65.000|4 on July 10, 2017, Tri Cities, WA — 3 values vs 13 colum
['July 6, 2017', 'Wausau, WI', '7.200|1|6.600|2|13.800|2|7.200|2|7.100|1|14.
300 | 2 | 28.100 | 0']
['July 6, 2017', 'Wausau, WI', '7.400|1|7.100|1|14.500|1|7.400|2|7.000|2|14.
400|2|28.900|0']
['July 6, 2017', 'Wausau, WI', '65.400|3']
['July 6, 2017', 'Wausau, WI', '55.300|4']
['July 5, 2017', 'Chickasha, OK', '7.500|1|7.200|1|14.700|1|7.800|1|7.400|1|
15.200|1|29.900|0']
['July 5, 2017', 'Chickasha, OK', '7.200|2|6.900|2|14.100|2|7.300|2|6.800|2|
14.100|2|28.200|0']
⚠ Skipping 66.500|3 on July 5, 2017, Chickasha, OK — 5 values vs 13 columns
['July 4, 2017', 'Lynn, MA', '8.000|1|7.900|1|15.900|1|7.800|1|7.400|1|15.20
0|1|31.100|0']
['July 4, 2017', 'Lynn, MA', '8.000|2|7.600|2|15.600|2|7.600|2|7.500|1|15.10
0|1|30.700|0']
['July 4, 2017', 'Lynn, MA', '72.500|3']
['July 4, 2017', 'Lynn, MA', '66.300|4']
['July 4, 2017', 'Lynn, MA', 'Genesis']
\triangle Skipping 5.900|6|5.700|6|11.600|6|5.400|7|5.000|7|10.400|7|22.000|0 on Ju
ly 4, 2017, Lynn, MA - 9 values vs 13 columns
['July 3, 2017', 'Mesa, AZ', '7.900|1|7.300|1|15.200|1|7.900|1|7.400|1|15.30
0|1|30.500|0']
['July 3, 2017', 'Mesa, AZ', '6.700|2|6.400|2|13.100|2|6.700|2|6.500|2|13.20
0|2|26.300|0']
['July 3, 2017', 'Cedarburg, WI', '7.700|1|7.400|1|15.100|1|7.500|1|7.300|1|
14.800|1|29.900|0']
['July 3, 2017', 'Cedarburg, WI', '7.200|2|7.100|2|14.300|2|7.600|2|7.300|2|
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14.900 | 2 | 29.200 | 0 ' ]
['July 3, 2017', 'Cedarburg, WI', '70.300|3']
⚠ Skipping 55.300|4 on July 3, 2017, Cedarburg, WI — 3 values vs 13 columns
['July 3, 2017', 'Cranston, RI', '8.200|1|7.700|1|15.900|1|7.700|1|1
5.200|1|31.100|0']
['July 3, 2017', 'Cranston, RI', '7.800|2|7.300|2|15.100|2|7.400|2|7.300|2|1
4.700|2|29.800|0']
['July 3, 2017', 'Cranston, RI', '71.700|3']
['July 3, 2017', 'Cranston, RI', '65.900|4']
['July 3, 2017', 'Cranston, RI', 'Genesis']
▲ Skipping 6.000|7|5.700|7|11.700|7|5.200|7|5.000|7|10.200|7|21.900|0 on Ju
ly 3, 2017, Cranston, RI - 9 values vs 13 columns
['July 3, 2017', 'Mankato, MN', '8.000|1|7.600|1|15.600|1|8.000|1|7.600|1|1
5.600|1|31.200|0']
['July 3, 2017', 'Mankato, MN', '7.300|2|7.200|2|14.500|2|7.300|2|7.000|2|1
4.300|2|28.800|0']
▲ Skipping 64.400|3 on July 3, 2017, Mankato, MN - 5 values vs 13 columns
['July 2, 2017', 'Clifton, NJ', '7.600|1|7.400|1|15.000|1|8.100|1|7.900|1|1
6.000|1|31.000|0']
['July 2, 2017', 'Clifton, NJ', '7.500|2|7.300|2|14.800|2|7.800|1|7.500|1|1
5.300|1|30.100|0']
['July 2, 2017', 'Clifton, NJ', '71.500|3']
['July 2, 2017', 'Clifton, NJ', '65.500|4']
Skipping Jersey Surf on July 2, 2017, Clifton, NJ — 11 values vs 13 colum
['July 2, 2017', 'La Crosse, WI', '7.800|1|7.600|1|15.400|1|7.900|1|7.600|1|
15.500|1|30.900|0']
['July 2, 2017', 'La Crosse, WI', '7.400|2|7.200|2|14.600|2|7.600|2|7.400|2|
15.000|2|29.600|0']
['July 2, 2017', 'La Crosse, WI', '71.400|3']
['July 2, 2017', 'La Crosse, WI', '69.900|4']
▲ Skipping Troopers on July 2, 2017, La Crosse, WI — 11 values vs 13 column
S
['July 1, 2017', 'Lisle, IL', '7.600|1|7.500|1|15.100|1|7.600|1|7.500|1|15.1
00|1|30.200|0']
['July 1, 2017', 'Lisle, IL', '7.500|2|7.200|2|14.700|2|7.500|2|7.200|1|14.7
00|2|29.400|0']
['July 1, 2017', 'Lisle, IL', '70.700|3']
['July 1, 2017', 'Lisle, IL', '68.700|4']
['July 1, 2017', 'Lisle, IL', 'Troopers']
\triangle Skipping 5.100|7|4.800|7|9.900|7|5.000|7|4.800|7|9.800|7|19.700|0 on July
1, 2017, Lisle, IL - 9 values vs 13 columns
['June 28, 2017', 'Evansville, IN', '7.500|1|7.300|1|14.800|1|7.500|1|7.300|
1|14.800|1|29.600|0']
['June 28, 2017', 'Evansville, IN', '7.200|2|7.100|1|14.300|2|6.900|2|6.800|
2|13.700|2|28.000|0']
['June 28, 2017', 'Evansville, IN', '67.600|3']
['June 28, 2017', 'Evansville, IN', '67.100|4']
['June 27, 2017', 'Pittsburgh, PA', '7.700|1|7.500|1|15.200|1|7.600|1|7.500|
1|15.100|1|30.300|0']
['June 27, 2017', 'Pittsburgh, PA', '6.900|2|6.700|2|13.600|2|7.300|2|7.100|
2|14.400|2|28.000|0']
['June 27, 2017', 'Pittsburgh, PA', '69.100|3']
['June 27, 2017', 'Pittsburgh, PA', '62.400|4']
['June 27, 2017', 'Pittsburgh, PA', 'Spirit of Atlanta']
⚠ Skipping 5.800|7|5.300|7|11.100|7|5.700|7|5.400|7|11.100|7|22.200|0 on Ju
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ne 27, 2017, Pittsburgh, PA - 9 values vs 13 columns
['June 26, 2017', 'Hamilton, OH', '7.700|1|7.500|1|15.200|1|7.600|1|7.400|2|
15.000|1|30.200|0']
['June 26, 2017', 'Hamilton, OH', '7.200|3|7.100|2|14.300|3|7.400|1|7.200|1|
14.600|1|28.900|0']
['June 26, 2017', 'Hamilton, OH', '71.600|3']
['June 26, 2017', 'Hamilton, OH', '69.100|4']
['June 26, 2017', 'Hamilton, OH', 'Troopers']
['June 26, 2017', 'Hamilton, OH', '6.200|7|6.000|6|12.200|6|6.500|6|6.400|7|
12.900|7|25.100|0']
Skipping 4.600|8|4.200|8|8.800|8|5.200|8|4.400|8|9.600|8|18.400|0 on June
26, 2017, Hamilton, OH - 7 values vs 13 columns
['June 25, 2017', 'Michigan City, IN', '7.600|1|7.400|1|15.000|1|7.400|1|7.2
00|1|14.600|1|29.600|0']
['June 25, 2017', 'Michigan City, IN', '7.200|2|7.000|2|14.200|2|7.200|1|6.8
00|1|14.000|1|28.200|0']
['June 25, 2017', 'Michigan City, IN', '66.100|3']
['June 25, 2017', 'Michigan City, IN', '66.000|4']
['June 25, 2017', 'Michigan City, IN', 'Colts']
\triangle Skipping 5.000|7|4.700|7|9.700|7|5.300|7|5.000|7|10.300|7|20.000|0 on Jun
e 25, 2017, Michigan City, IN - 9 values vs 13 columns
⚠ Skipping Phantom Regiment on August 8, 2016, Massillon, OH — 7 values vs
13 columns
['August 4, 2016', 'Quincy, MA', '9.200|1|9.100|1|18.300|1|9.300|1|8.900|1|1
8.200|1|36.500|1']
['August 4, 2016', 'Quincy, MA', '8.400|2|8.400|2|16.800|2|8.700|2|8.500|2|1
7.200 | 2 | 34.000 | 2 ' ]
['August 4, 2016', 'Quincy, MA', '80.700|3']
⚠ Skipping 79.500|4 on August 4, 2016, Quincy, MA — 3 values vs 13 columns
['July 31, 2016', 'Winston-Salem, NC', 'Carolina Crown']
♣ Skipping The Cadets on July 31, 2016, Winston-Salem, NC - 7 values vs 13
columns
['July 17, 2016', 'Waukee, IA', '7.300|2|7.100|2|14.400|2|8.000|1|7.600|1|1
5.600|1|30.000|1']
['July 17, 2016', 'Waukee, IA', '7.400|2|7.100|2|14.500|2|7.700|2|7.400|2|1
5.100 | 2 | 29.600 | 2']
['July 17, 2016', 'Waukee, IA', '70.900|3']
['July 17, 2016', 'Waukee, IA', '67.200|4']
⚠ Skipping Blue Devils on July 16, 2016, Minneapolis, MN — 7 values vs 13 c
olumns
['July 14, 2016', 'Wausau, WI', '7.600|1|7.400|1|15.000|1|7.600|1|7.500|1|1
5.100|1|30.100|1']
['July 14, 2016', 'Wausau, WI', '7.500|2|7.200|2|14.700|2|7.500|2|7.200|2|1
4.700|2|29.400|2']
['July 14, 2016', 'Wausau, WI', '65.400|3']
['July 14, 2016', 'Wausau, WI', '65.000|4']
['July 13, 2016', 'Sioux City, IA', '8.100|1|7.800|1|15.900|1|8.100|1|7.900|
1|16.000|1|31.900|1']
['July 13, 2016', 'Sioux City, IA', '8.200|1|7.900|1|16.100|1|8.000|2|7.600|
2|15.600|2|31.700|2']
['July 13, 2016', 'Sioux City, IA', '69.500|3']
['July 13, 2016', 'Sioux City, IA', '68.300|4']
['July 8, 2016', 'Casper, WY', '7.700|1|7.400|1|15.100|1|7.500|1|7.300|1|14.
800|1|29.900|1']
['July 8, 2016', 'Casper, WY', '6.800|2|6.500|2|13.300|2|6.500|2|6.500|2|13.
000|2|26.300|2']
```

```
['July 8, 2016', 'Casper, WY', '62.000|3']
⚠ Skipping 58.500|4 on July 8, 2016, Casper, WY — 3 values vs 13 columns
['July 7, 2016', 'Ogden, UT', '8.200|1|7.900|1|16.100|1|8.000|1|7.700|1|15.7
00|1|31.800|1']
['July 7, 2016', 'Ogden, UT', '7.700|2|7.500|2|15.200|2|7.500|2|7.200|2|14.7
0012129.90012'1
['July 7, 2016', 'Ogden, UT', '69.900|3']
['July 7, 2016', 'Ogden, UT', '61.600|4']
['July 7, 2016', 'Chickasha, OK', '7.000|1|6.800|1|13.800|1|6.900|1|6.800|1|
13.700|1|27.500|1']
['July 7, 2016', 'Chickasha, OK', '6.800|2|6.600|2|13.400|2|7.100|1|6.700|2|
13.800 | 2 | 27.200 | 2 ' ]
⚠ Skipping 57.900|3 on July 7, 2016, Chickasha, OK — 5 values vs 13 columns
['July 6, 2016', 'Boise, ID', '7.600|1|7.400|1|15.000|1|7.600|1|7.200|1|14.8
00|1|29.800|1']
['July 6, 2016', 'Boise, ID', '6.300|2|6.100|2|12.400|2|6.100|2|5.900|2|12.0
00|2|24.400|2']
△ Skipping 57.500|3 on July 6, 2016, Boise, ID — 5 values vs 13 columns
['July 6, 2016', 'Mankato, MN', '7.600|1|7.500|1|15.100|1|6.100|1|6.000|1|1
2.100|1|27.200|1']
['July 6, 2016', 'Mankato, MN', '7.300|2|7.000|2|14.300|2|7.100|2|7.000|2|1
4.100 | 2 | 28.400 | 2']
['July 6, 2016', 'Mankato, MN', '63.700|3']
△ Skipping 53.900|4 on July 6, 2016, Mankato, MN — 3 values vs 13 columns
['July 5, 2016', 'Mesa, AZ', '7.200|1|6.800|1|14.000|1|7.200|1|7.000|1|14.20
0|1|28.200|1']
['July 5, 2016', 'Mesa, AZ', '7.100|1|6.800|1|13.900|1|6.700|1|6.300|1|13.00
0|1|26.900|1']
Skipping 60.300|3 on July 5, 2016, Mesa, AZ — 5 values vs 13 columns
['July 5, 2016', 'Tri Cities, WA', '7.700|1|7.300|1|15.000|1|7.500|1|7.300|1
|14.800|1|29.800|1']
['July 5, 2016', 'Tri Cities, WA', '6.300|2|6.000|2|12.300|2|6.100|2|5.700|2
|11.800|2|24.100|2']
△ Skipping 57.100|3 on July 5, 2016, Tri Cities, WA — 5 values vs 13 column
['July 5, 2016', 'Cranston, RI', '8.100|1|7.900|1|16.000|1|7.800|1|7.500|1|1
5.300|1|31.300|1']
['July 5, 2016', 'Cranston, RI', '7.500|2|7.200|2|14.700|2|7.200|2|7.000|2|1
4.200 | 2 | 28.900 | 2']
['July 5, 2016', 'Cranston, RI', '69.700|3']
⚠ Skipping 68.400|4 on July 5, 2016, Cranston, RI — 3 values vs 13 columns
['July 3, 2016', 'Cedarburg, WI', '7.800|1|7.600|1|15.400|1|7.900|1|7.800|1|
15.700|1|31.100|1']
['July 3, 2016', 'Cedarburg, WI', '7.100|1|7.000|2|14.100|2|7.700|2|7.300|2|
15.000 | 2 | 29.100 | 2']
['July 3, 2016', 'Cedarburg, WI', '69.800|3']
['July 3, 2016', 'Cedarburg, WI', '66.400|4']
▲ Skipping Pioneer on July 3, 2016, Cedarburg, WI — 11 values vs 13 columns
['July 2, 2016', 'Lisle, IL', '7.800|1|7.500|1|15.300|1|7.900|1|7.800|1|15.7
00|1|31.000|1']
['July 2, 2016', 'Lisle, IL', '7.300|2|7.000|2|14.300|2|7.200|2|6.900|2|14.1
00|2|28.400|2']
['July 2, 2016', 'Lisle, IL', '66.300|3']
['July 2, 2016', 'Lisle, IL', '62.200|4']
['June 29, 2016', 'Evansville, IN', '7.500|1|7.300|1|14.800|1|7.500|1|6.700|
1|14.200|1|29.000|1']
```

```
['June 29, 2016', 'Evansville, IN', '6.600|3|6.400|3|13.000|3|6.700|3|6.500|
3|13.200|3|26.200|3']
['June 29, 2016', 'Evansville, IN', '66.600|3']
['June 29, 2016', 'Evansville, IN', '62.700|4']
['June 28, 2016', 'Dublin, OH', '7.100|1|6.700|1|13.800|1|7.300|1|6.900|1|1
4.200|1|28.000|1']
['June 28, 2016', 'Dublin, OH', '6.800|2|6.600|2|13.400|2|6.500|2|6.300|2|1
2.800|2|26.200|2']
['June 28, 2016', 'Dublin, OH', '64.500|3']
△ Skipping 46.400|4 on June 28, 2016, Dublin, OH — 3 values vs 13 columns
['June 28, 2016', 'Pittsburgh, PA', '7.700|1|7.400|1|15.100|1|7.500|1|6.900|
1|14.400|1|29.500|1']
['June 28, 2016', 'Pittsburgh, PA', '7.400|2|6.900|2|14.300|2|7.100|2|6.800|
2|13.900|2|28.200|2']
['June 28, 2016', 'Pittsburgh, PA', '67.000|3']
['June 28, 2016', 'Pittsburgh, PA', '63.600|4']
['June 27, 2016', 'Hamilton, OH', '7.400|1|7.300|1|14.700|1|7.500|1|7.300|1|
14.800|1|29.500|1']
['June 27, 2016', 'Hamilton, OH', '7.300|2|7.100|2|14.400|2|7.200|2|7.100|1|
14.300|2|28.700|2']
['June 27, 2016', 'Hamilton, OH', '65.300|3']
['June 27, 2016', 'Hamilton, OH', '64.000|4']
△ Skipping Colts on June 27, 2016, Hamilton, OH — 11 values vs 13 columns
['June 26, 2016', 'Michigan City, IN', '6.900|1|6.600|1|13.500|1|7.300|1|7.1
00|1|14.400|1|27.900|1']
['June 26, 2016', 'Michigan City, IN', '6.700|2|6.400|2|13.100|2|6.900|2|6.6
00|2|13.500|2|26.600|2']
['June 26, 2016', 'Michigan City, IN', '62.400|3']
['June 26, 2016', 'Michigan City, IN', '59.400|4']
['June 25, 2016', 'Massillon, OH', '7.200|1|6.900|1|14.100|1|7.500|1|7.200|1
|14.700|1|28.800|1']
['June 25, 2016', 'Massillon, OH', '7.500|1|7.200|1|14.700|1|6.800|2|6.600|2
|13.400|2|28.100|2']
['June 25, 2016', 'Massillon, OH', '66.700|3']
['June 25, 2016', 'Massillon, OH', '62.400|4']
['June 25, 2016', 'Whitewater, WI', '6.800|2|6.700|1|13.500|1|6.600|1|6.300|
1|12.900|1|26.400|1']
['June 25, 2016', 'Whitewater, WI', '6.900|1|6.400|2|13.300|2|7.100|2|6.900|
1|14.000|2|27.300|2']
['June 25, 2016', 'Whitewater, WI', '61.900|3']
['June 25, 2016', 'Whitewater, WI', '58.400|4']
Skipping Pioneer on June 25, 2016, Whitewater, WI — 11 values vs 13 colum
⚠ Skipping The Cavaliers on July 26, 2015, Winston-Salem, NC — 9 values vs
13 columns
△ Skipping The Cavaliers on July 25, 2015, Atlanta, GA — 7 values vs 13 col
umns
235 corp score missing
```

Dataframes

Raw html

```
In [6]: df_raw = pd.read_csv("all_shows_score_recap.csv")
pprint(df_raw.iloc[0, 0:5])
```

July 25, 2025 July 25, 2025

Nashville, TN

Birmingham, AL

General Effect | General Effect 1 | T. Wemhoff | Rep | Perf | TOT | General Effect 2 | M. Howard | Rep | Perf | TOT | TOT | General Effect |

General Effect 1|A. Combites|Re...

Visual|Visual Proficiency|J. Orefice|Cont|Achv|TOT|Visual - Analysis|T. Ochran|Comp|Achv|TOT|Color Guard|M. McCourt|CONT|Achv|TOT|TOT Visual|Visual Proficiency|J. Tate|Cont|Achv|TO...

Music|Music - Brass|P. McGarr|Cont|Achv|TOT|Music - Analysis|K. Turner|Cont|Achv|TOT|Music - Percussion|J. Brooks|Cont|Achv|TOT|TOT Music|Music - Brass|N. Konouchi|Cont|Achv|TOT|...

Name: 0, dtype: object

All corps score at all shows

	Show Date	Show Location	Corp Name	General Effect - TOT	General Effect - TOT_rank	Visual - TOT	Visual - TOT_rank		Music TOT_rar
0	July 25, 2025	Birmingham, AL	Blue Knights	34.1	1	25.65	1	25.90	
1	July 25, 2025	Birmingham, AL	Spirit of Atlanta	32.9	2	24.75	2	25.20	
2	July 25, 2025	Birmingham, AL	Crossmen	31.7	3	24.15	3	24.40	
3	July 25, 2025	Birmingham, AL	Genesis	30.5	4	22.40	4	22.95	
4	July 25, 2025	Birmingham, AL	Seattle Cascades	29.4	5	22.15	5	22.40	

All Bluecoats shows since 2013

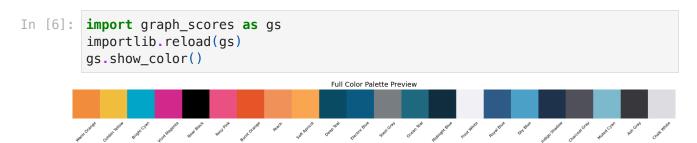
```
import find_show_info as fds
importlib.reload(fds)
fds.find bluecoats()
```

	Show Date	Show Location	Corp Name	General Effect - TOT	General Effect - TOT_rank	Visual - TOT	Visual - TOT_rank	Music - TOT	
0	July 20, 2025	Bedford, TX	Bluecoats	37.00	1	28.00	1	27.950	,
12	July 19, 2025	San Antonio, TX	Bluecoats	37.35	1	27.80	1	27.675	3
31	July 18, 2025	Houston, TX	Bluecoats	36.90	1	26.90	1	27.450	,
39	July 17, 2025	Denton, TX	Bluecoats	36.40	1	26.85	1	27.050	2
66	July 15, 2025	Broken Arrow, OK	Bluecoats	35.60	1	26.50	1	26.450	,

Visualization

Preparation

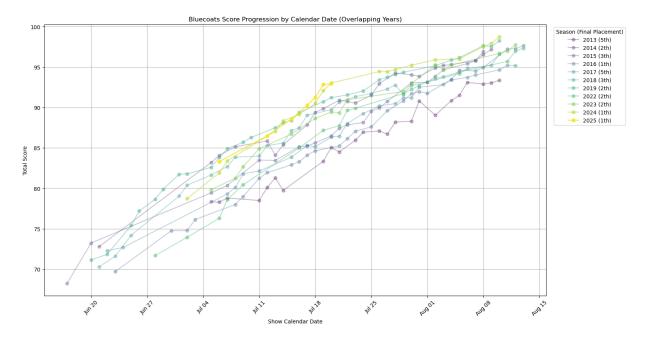
Bluecoats color from media pictures



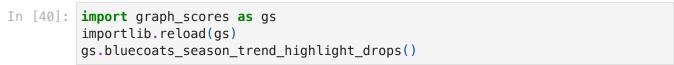
Total Score Graphs

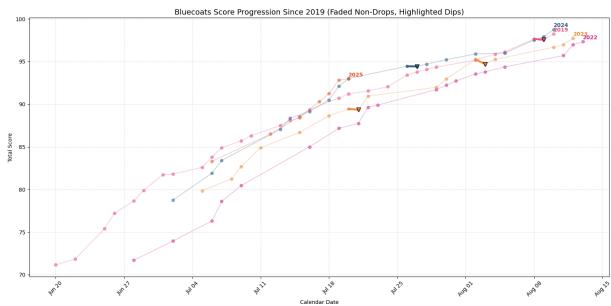
Bluecoat season score progression since 2013

```
In [13]: import graph_scores as gs
importlib.reload(gs)
gs.bluecoats_season_trend()
```

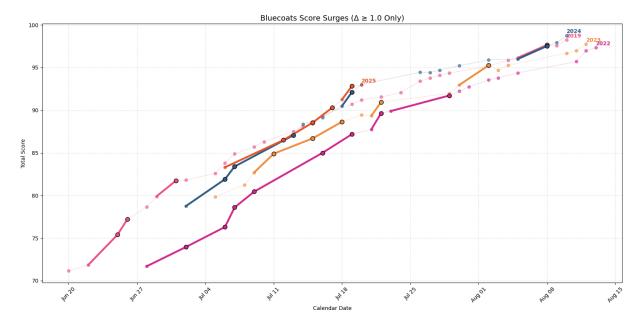


Bluecaots seasons since 2013 highlighting score drops

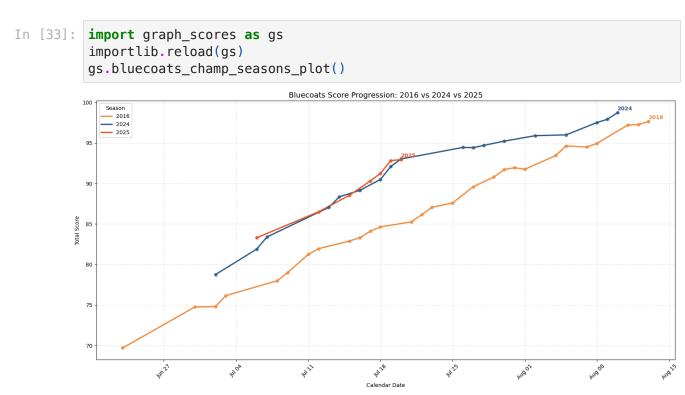




```
import graph_scores as gs
importlib.reload(gs)
gs.bluecoats_season_trend_highlight_improvements()
```



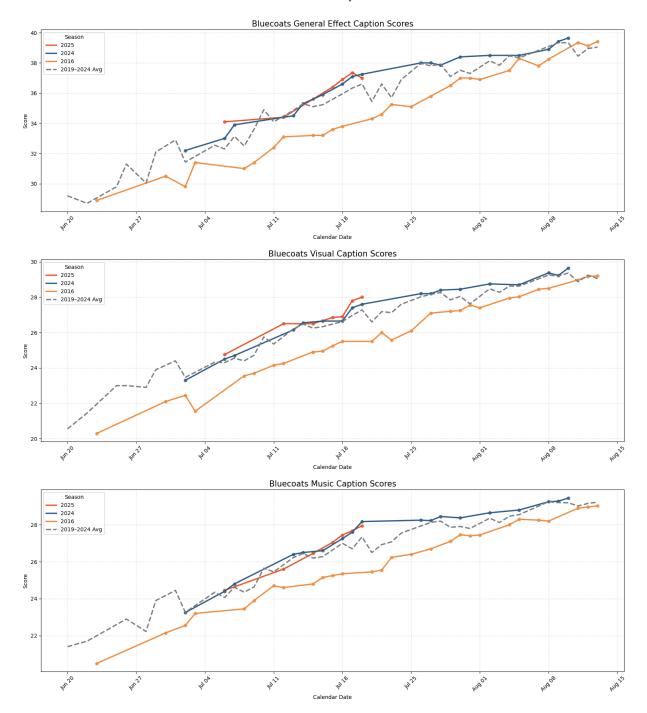
Bluecoats season 2025 and past championship seasons.



Caption Score Graphs

Bluecoats caption score trend with year 2025, 2024, 2016, and average of 2019-2024

```
import graph_scores as gs
importlib.reload(gs)
gs.bluecoats_caption_score_trend()
```



Future Outlooks & Expansion Ideas

- Analyze judging trends by matching judge names to caption scores, identifying potential judge-specific scoring patterns or biases.
- Determine Bluecoats' **caption rankings in finals** across multiple years to reveal recurring **strengths and weaknesses**.
- If data permits, visualize operational season metrics such as:
 - **Spring training workload**: total and average rehearsal hours per day.
 - **Tour logistics**: total/average miles traveled, bus time, and housing/floor time.
 - Tour rehearsal intensity: rehearsal hours per day while on tour.

• Compare **caption score trajectories** of Bluecoats with peer corps (e.g., BD, Crown) for performance trend benchmarking.

- Analyze **score volatility** over a season to identify stability vs. inconsistency.
- Examine the **relationship between performance order and score**, especially at regionals and finals.
- Track **individual caption improvements** post-major show rewrites (if timestamped notes are available).