main

September 22, 2024
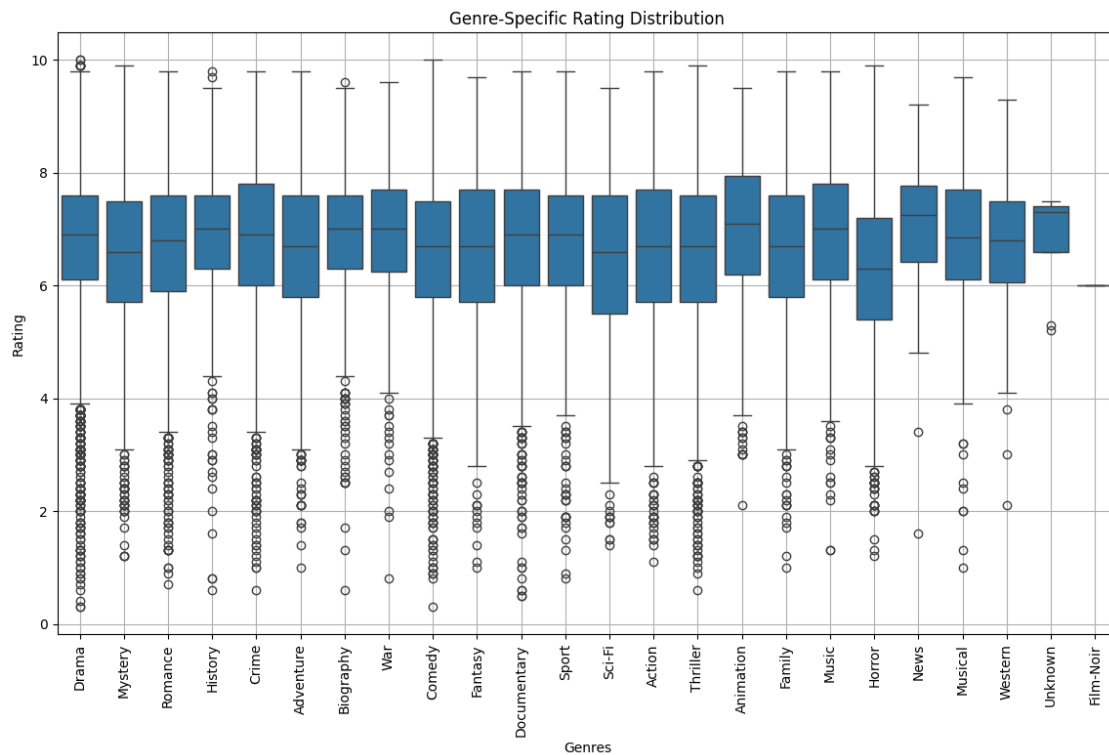
```
[29]: %load_ext autoreload
      %autoreload 2
```

The autoreload extension is already loaded. To reload it, use:
  %reload_ext autoreload

```
[50]: print("Running Polars Analysis...")
      %run analysis/polars_analysis.py
```
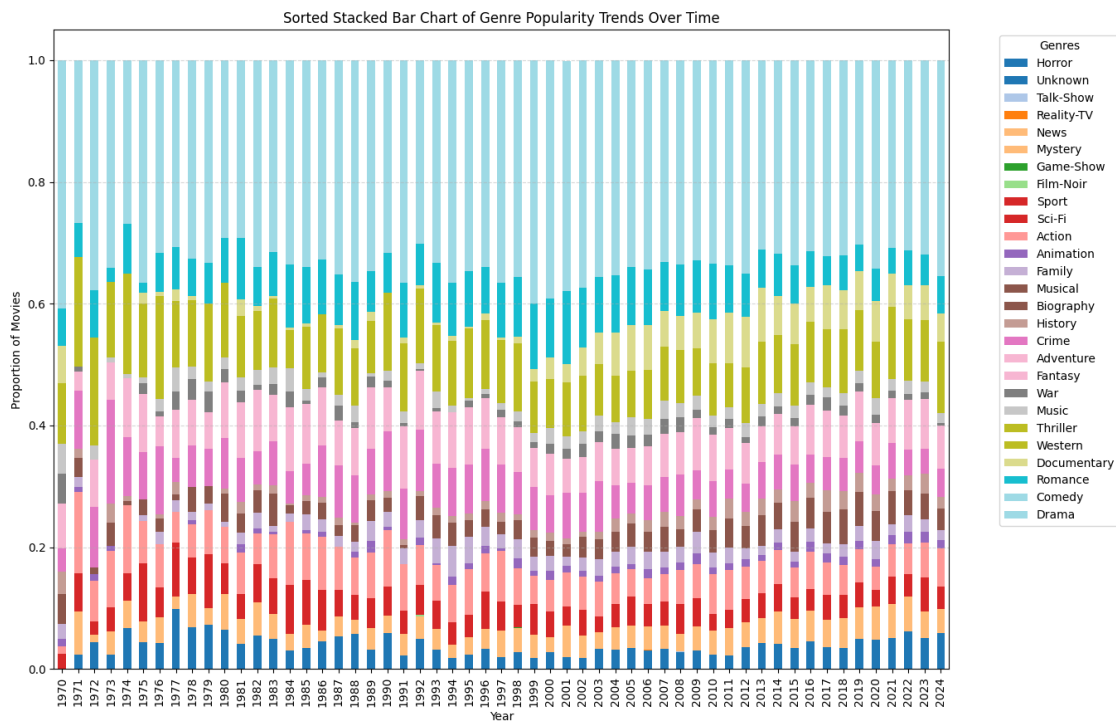
Running Polars Analysis…

Genre-Specific Rating Distribution

```
[51]: print("Running Pandas Analysis...")
      %run analysis/pandas_analysis.py
```

```
Running Pandas Analysis…
          Unnamed: 0         Rating
count  16290.000000   12846.000000
mean    8144.500000       6.617632
std     4702.662278       1.415272
min        0.000000       0.300000
25%     4072.250000       5.800000
50%     8144.500000       6.800000
75%    12216.750000       7.600000
max    16289.000000      10.000000
```


Sorted Stacked Bar Chart of Genre Popularity Trends Over Time

[52]:
```python
print("Running Benchmark Analysis...")
%run analysis/benchmark.py
```

```
Running Benchmark Analysis…
Running benchmarks…

Pandas - Execution Time: 1.0789 seconds, Max Memory Usage: 429.45 MB
Polars - Execution Time: 0.0808 seconds, Max Memory Usage: 516.50 MB
```

[ ]: