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| **Flags Data Set**  *Download*: [Data Folder](https://archive.ics.uci.edu/ml/machine-learning-databases/flags/), [Data Set Description](https://archive.ics.uci.edu/ml/machine-learning-databases/flags/flag.names)  **Abstract**: From Collins Gem Guide to Flags, 1986 | https://archive.ics.uci.edu/ml/assets/MLimages/Large40.jpg |

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| **Data Set Characteristics:** | Multivariate | **Number of Instances:** | 194 | **Area:** | N/A |
| **Attribute Characteristics:** | Categorical, Integer | **Number of Attributes:** | 30 | **Date Donated** | 1990-05-15 |
| **Associated Tasks:** | Classification | **Missing Values?** | No | **Number of Web Hits:** | 251740 |

**Source:**

Creators:   
  
Collected primarily from the "Collins Gem Guide to Flags": Collins Publishers (1986).   
  
Donor:   
  
Richard S. Forsyth   
8 Grosvenor Avenue   
Mapperley Park   
Nottingham NG3 5DX   
0602-621676

**Data Set Information:**

This data file contains details of various nations and their flags. In this file the fields are separated by spaces (not commas). With this data you can try things like predicting the religion of a country from its size and the colours in its flag.   
  
10 attributes are numeric-valued. The remainder are either Boolean- or nominal-valued.

**Attribute Information:**

1. name: Name of the country concerned   
2. landmass: 1=N.America, 2=S.America, 3=Europe, 4=Africa, 4=Asia, 6=Oceania   
3. zone: Geographic quadrant, based on Greenwich and the Equator; 1=NE, 2=SE, 3=SW, 4=NW   
4. area: in thousands of square km   
5. population: in round millions   
6. language: 1=English, 2=Spanish, 3=French, 4=German, 5=Slavic, 6=Other Indo-European, 7=Chinese, 8=Arabic, 9=Japanese/Turkish/Finnish/Magyar, 10=Others   
7. religion: 0=Catholic, 1=Other Christian, 2=Muslim, 3=Buddhist, 4=Hindu, 5=Ethnic, 6=Marxist, 7=Others   
8. bars: Number of vertical bars in the flag   
9. stripes: Number of horizontal stripes in the flag   
10. colours: Number of different colours in the flag   
11. red: 0 if red absent, 1 if red present in the flag   
12. green: same for green   
13. blue: same for blue   
14. gold: same for gold (also yellow)   
15. white: same for white   
16. black: same for black   
17. orange: same for orange (also brown)   
18. mainhue: predominant colour in the flag (tie-breaks decided by taking the topmost hue, if that fails then the most central hue, and if that fails the leftmost hue)   
19. circles: Number of circles in the flag   
20. crosses: Number of (upright) crosses   
21. saltires: Number of diagonal crosses   
22. quarters: Number of quartered sections   
23. sunstars: Number of sun or star symbols   
24. crescent: 1 if a crescent moon symbol present, else 0   
25. triangle: 1 if any triangles present, 0 otherwise   
26. icon: 1 if an inanimate image present (e.g., a boat), otherwise 0   
27. animate: 1 if an animate image (e.g., an eagle, a tree, a human hand) present, 0 otherwise   
28. text: 1 if any letters or writing on the flag (e.g., a motto or slogan), 0 otherwise   
29. topleft: colour in the top-left corner (moving right to decide tie-breaks)   
30. botright: Colour in the bottom-left corner (moving left to decide tie-breaks)

**Relevant Papers:**

Forsyth's PC/BEAGLE User's Guide.

**Papers That Cite This Data Set1:**

https://archive.ics.uci.edu/ml/assets/rexa.jpg

George H. John and Ron Kohavi and Karl Pfleger. [Irrelevant Features and the Subset Selection Problem](http://rexa.info/paper/d4ea16b5ea06d216f7d2be28615fa9c66b98bbea). ICML. 1994. [[View Context](https://archive.ics.uci.edu/ml/support/Flags#d4ea16b5ea06d216f7d2be28615fa9c66b98bbea)].  
  
Ron Kohavi and George H. John and Richard Long and David Manley and Karl Pfleger. [MLC++: A Machine Learning Library in C](http://rexa.info/paper/3f9e71cd1f71f5f65b712d5cc5c29045d0193711). ICTAI. 1994. [[View Context](https://archive.ics.uci.edu/ml/support/Flags#3f9e71cd1f71f5f65b712d5cc5c29045d0193711)].  
  
Wl/odzisl/aw Duch and Karol Grudzi nski and Grzegorz Stawski. [SYMBOLIC FEATURES IN NEURAL NETWORKS](http://rexa.info/paper/82cbfc464ed8d2bd0b91ffd1132022df16b7334d). Department of Computer Methods, Nicolaus Copernicus University. [[View Context](https://archive.ics.uci.edu/ml/support/Flags#82cbfc464ed8d2bd0b91ffd1132022df16b7334d)].

**Citation Request:**

Please refer to the Machine Learning Repository's [citation policy](https://archive.ics.uci.edu/ml/citation_policy.html)