Visualizing National Parks Species Data

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Codecademy Project

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Data analysis and visualization by Kyle Luth

Background

Parks Considered in Study:

- Great Smoky Mountains National Park
- Yosemite National Park
- Bryce National Park
- Yellowstone National Park

Conservations Statuses:

- Species of Concern
- Endangered
- Threatened
- In Recovery

Data Visualization:

- MatPlotLib
- Seaborn

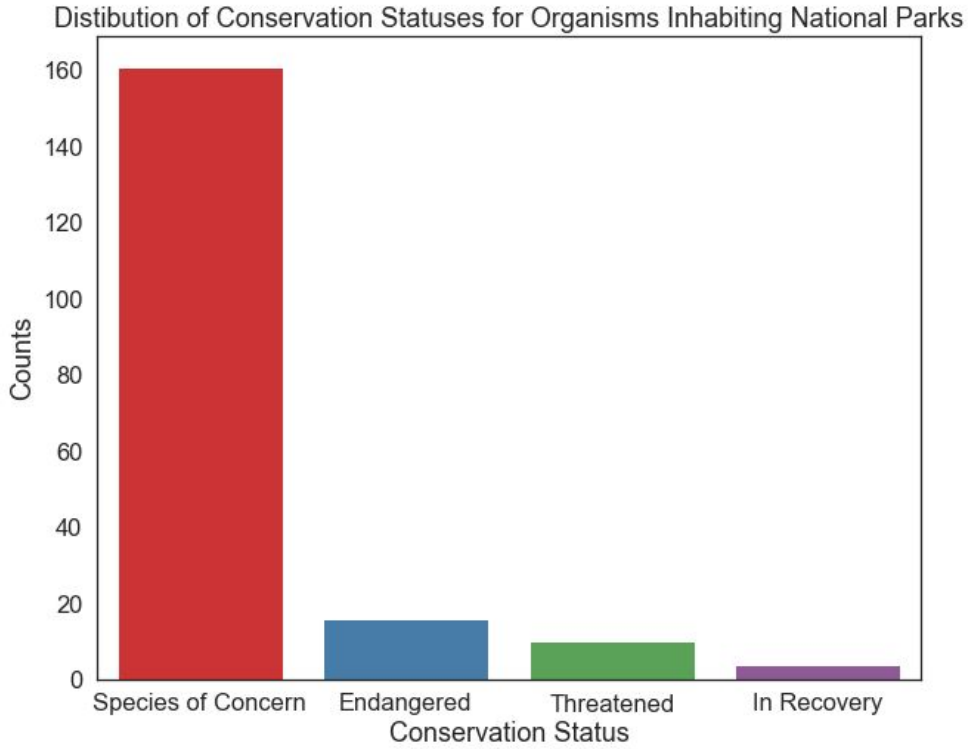
Statistical Analyses:

- Chi Square

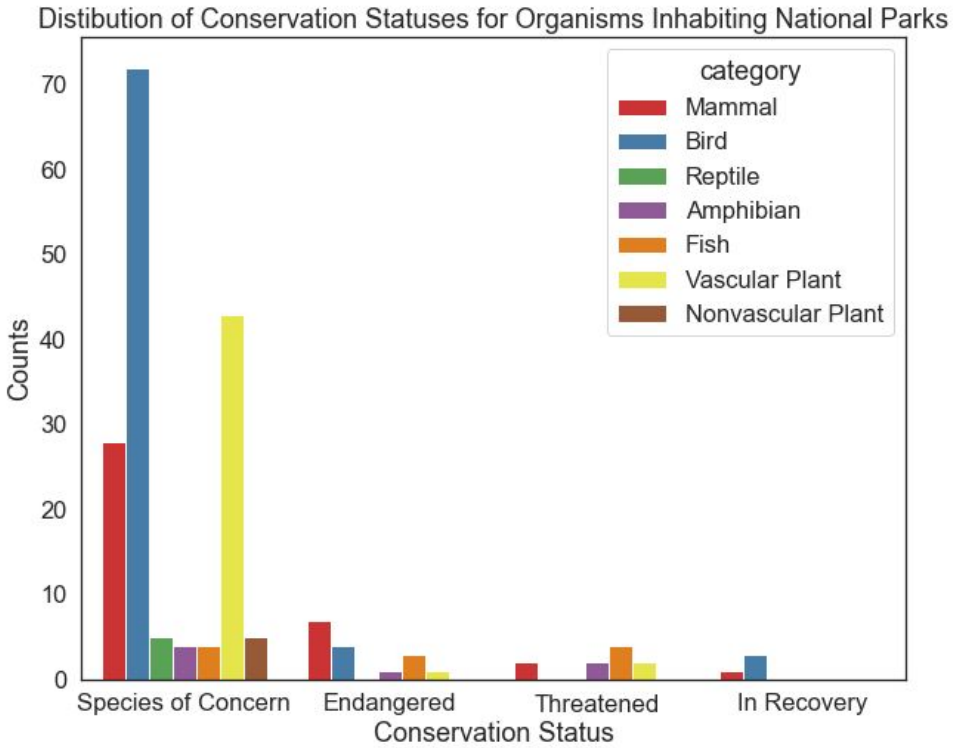
Conservation Statuses for Organisms in US National Parks

Highlights:

- Far more organisms are categorized as species of concern than as other conservation statuses



Conservation Status by Organism Type



Highlights:

- Species of birds and vascular plants are more likely to categorized as “species of concern” than species from other organism types
- Nearly equal numbers of fish species are categorized as “species of concern”, “endangered”, and “threatened”
- Number of organisms in each conservation status group differs significantly on the basis of organism type ($X^2 = 53.9$, $p<<0.05$)

Most and Least Common Species by Park