

PD.READ_CSV('SPECIES_INFO.CSV')

`Species_info.csv` is like a dirty room.



- Large volume of data
- Repeated values
- Poor categorization

But thankfully we have `.groupby()`, `.count()`, `.unique()`, `.fillna()`, `.sort_values()` to clean up our mess!



These are various functions that help solve the issues listed.

And now we can find what we were looking for!



- Significance Levels
- Sample Sizes
- Solutions!

CHI2_CONTINGENCY(CONTINGENCY)

H_0 : There is not a significant diff. b/w the endangerment of Birds/Reptiles v. Mammals

H_1 : There is a significant diff. b/w the endangerment of Birds/Reptiles v. Mammals



VS.



=

H₀

(P value = .53)



VS.



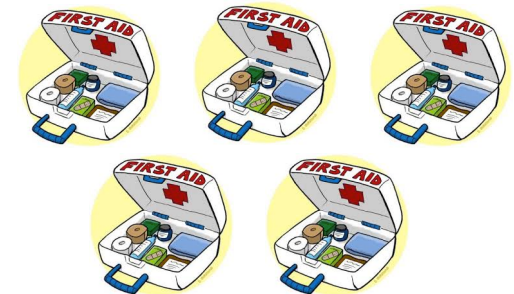
=

H₁

(P value = .05)

(CONTINGENCY) VS. (CONTINGENCY2)

Based on the finding that some species are significantly more at risk of becoming endangered than others, conservations should develop a strategy in which they allocate greater resources to the more at risk prior to those that are less at risk.



SAMPLE_SIZE_PER_VARIATION = 510

“Our scientist know that 15% of sheep at Bryce National Park have foot and mouth disease.”



Baseline
Conversion
Rate



15%

“They want to be able to detect reductions of at least 5 percentage points.”



Minimum
Detectable
Effect



$100 * (0.5/.15) =$
33%

“Use the default level of significance (90%).”



Level of
Significance



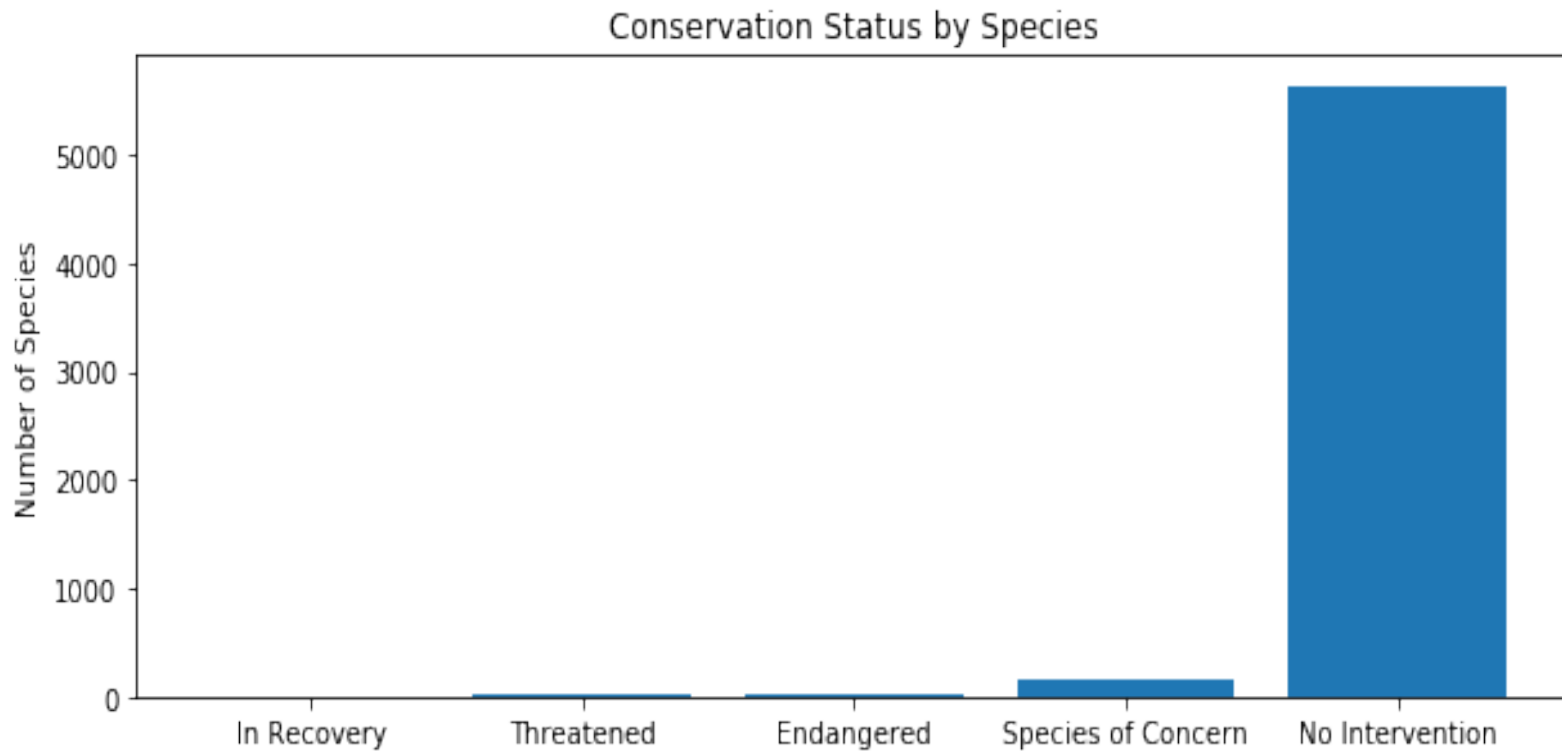
90%

OPTIMIZELY

=

510

APPENDIX 1



APPENDIX 2

