Codecademy Capstone Option 2: Biodiversity for the National Parks

J Gallegos

Data in species_info.csv

Data

The data worked with in species_info.csv came from the National Parks Service about different species in their parks which included the category, scientific names, the common names and the species conservation status of each species.

What I notice whilst working through the notebook was that if I could not figure out the answer I could google on look back through slack and find information to direct me to the answer.

Significant Calculations Performed

Conservation Counts

conservation_status	scientific_name
Endangered	15
In Recovery	4
Species of Concern	151
Threatened	10

Category Counts Is_protected

category	False	True
Amphibian	72	7
Bird	413	75
Fish	115	11
Mammal	146	30
Nonvascular Plant	328	5
Reptile	73	5
Vascular Plant	4216	46

Significant Calculations Performed continued

Category Not Protected

category	not_protected	protected
Amphibian	72	7
Bird	413	75
Fish	115	11
Mammal	146	30
Nonvascular Plant	328	5
Reptile	73	5
Vascular Plant	4216	46

Sheep Obersvations

park_name	observations
Bryce National Park	250
Great Smoky Mountains National Park	149
Yellowstone National Park	507
Yosemite National Park	282

Recommendations

Recommendations for Conservationists I am not sure how to answer this question. I would think it appears by the percentages that plants are the least protected and animals in that reptiles, fish and amphibians follow close behind. I would suggest setting up a specific department to handle plants and a specific department to handle reptile/fish/amphibians.

category	not_protected	protected	percent_protected
Nonvascular Plant	328	5	0.015015
Vascular Plant	4216	46	0.010793
Reptile	73	5	0.064103
Fish	115	11	0.087302
Amphibian	72	7	0.088608
Bird	413	75	0.153689
Mammal	146	30	0.170455

Sample Size

Sample size determination changes by the statistical significance:

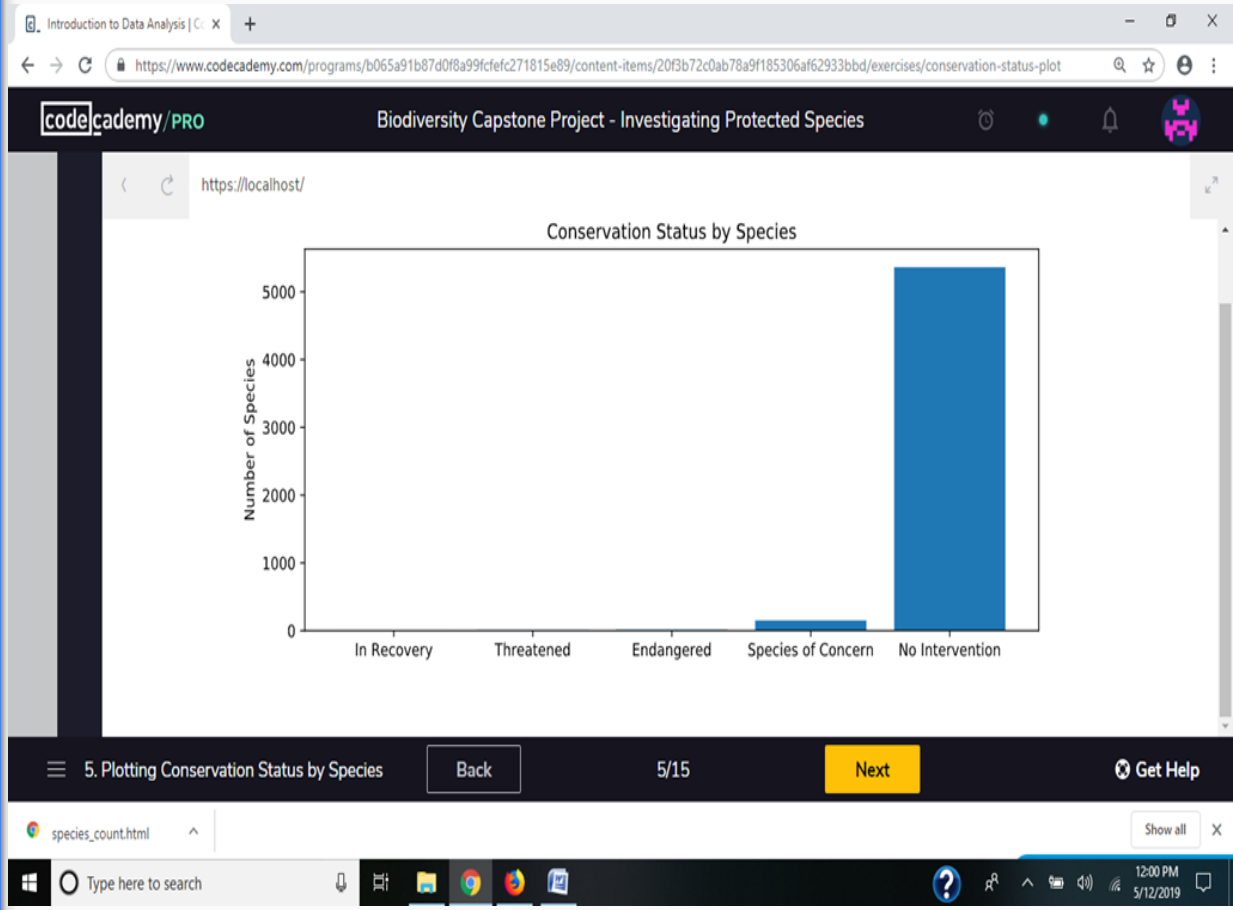
Baseline conversion rate:	**15%**
Statistical significance:	**90%**
Minimum detectable effect:	**33%**
Sample size needs to be:	**890**

Baseline conversion rate:	**15%**
Statistical significance:	**85%**
Minimum detectable effect:	**33%**
Sample size needs to be:	**770**

Baseline conversion rate:	**15%**
Statistical significance:	**95%**
Minimum detectable effect:	**33%**
Sample size needs to be:	**1100**

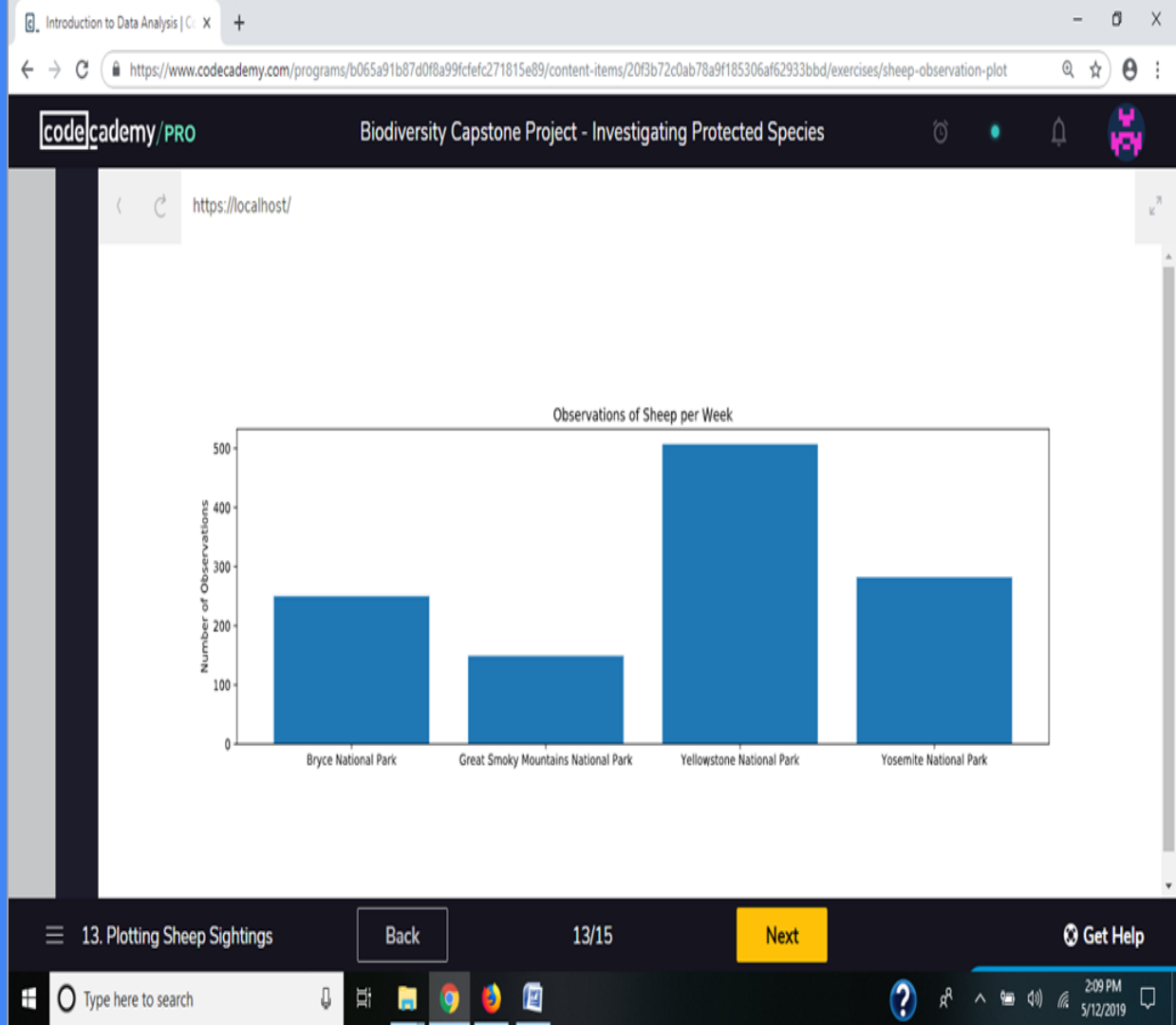
Graphs

Conservation Status by Species (please note, right clicking and choosing save as only gave me options to save to webpage,HTML only or webpage, complete and neither one would allow me to open the file back up, it would try to take me back to codecademy.



Graphs continued

Observations of sheep per week



Conclusion

I am really lost on how to take the information learned from coding and then tell you about it here.

I just read on slack where Zamar stated you need to include camparisons for mammal vs birds and mammals vs reptiles to get a good grade. I am trying to learn how to code, unless I missed something, it sounds like we are not graded the entire course and now somehow have to come up with the correct answers with very little to no instruction. I do not understand what the benefit of this is. Also, I missed it somewhere but the instructions to submit your project state if you did the project within codecademy to create a readme.txt file.....How do I create a readme.txt file, this is not something that was taught in the class, as far as my notes and my memory remember. I looked up how to create a readme.txt file and I do not understand how to do it at all. Again I am not understand the worth of going through the class to learn code and then be expected to produce something that we did not learn with in the class and to be graded with out knowing exactly what is wanted.

Thanks!

J Gallegos

Occasionally when I would post questions on slack I received good solid help, however, often the commentators do not answer questions and are very abrupt and abrasive. It would be helpful if when a question is asked the question is answered and then they could explain how to next time find the answer for myself. It was frustrating to ask a question and be told in essence, that, that is not the problem I should be worrying about.

I am hoping as I learn more I will be able to articulate my questions but as a brand new learner of code, I was very disappointed with the help offered.