



Data Boot Camp Grading Rubric

Unit 14 - Plot.ly Homework - Belly Button Biodiversity

Instructions:

Evaluate the homework against the outlined criteria in the below rubric, assigning a rating to each criterion. Add points earned across all criteria and convert the total points to a letter grade, assigning a “+” or “-” letter grade designation at your discretion.

| | | | | | |
|---------|-------|---------|-------|---------|-----|
| A (+/-) | 55+ | C (+/-) | 25-39 | F (+/-) | <10 |
| B (+/-) | 40-54 | D (+/-) | 10-24 | | |

Notes:

The assignment utilizes **Plotly** to complete the challenge. The source code should also be deployed to Github or Gitlab.

Rubric for Belly Button Biodiversity:

| | Mastery 20 points | Approaching Mastery 15 points | Progressing 10 points | Emerging 5-0 points | Incomplete |
|---------------------|---|---|--|---|---|
| Bar Chart | <ul style="list-style-type: none">✓ Chart initializes without error✓ Chart updates when a new sample is selected <p>-AND-</p> <p>Chart uses all of the following:</p> <ul style="list-style-type: none">✓ Top 10 sample values as values✓ otu_ids as the labels✓ otu_labels as the tooltip | <ul style="list-style-type: none">✓ Chart initializes without error✓ Chart updates when a new sample is selected <p>-AND-</p> <p>Chart uses 2 of the following:</p> <ul style="list-style-type: none">✓ Top 10 sample values as values✓ otu_ids as the labels✓ otu_labels as the tooltip | <ul style="list-style-type: none">✓ Chart initializes without error✓ Chart may not update when a new sample is selected <p>-AND-</p> <p>Chart uses 1 of the following:</p> <ul style="list-style-type: none">✓ Top 10 sample values as values✓ otu_ids as the labels✓ otu_labels as the tooltip | <ul style="list-style-type: none">✓ Chart may not initialize✓ Chart may not update when a new sample is selected <p>-AND-</p> <p>Chart uses 0-1 of the following:</p> <ul style="list-style-type: none">✓ Top 10 sample values as values✓ otu_ids as the labels✓ otu_labels as the tooltip | <p>No submission was received</p> <p>-OR-</p> <p>Submission was empty or blank</p> <p>-OR-</p> <p>Submission contains evidence of academic dishonesty</p> |
| Bubble Chart | <ul style="list-style-type: none">✓ Chart initializes without error✓ Chart updates when a new sample is selected <p>-AND-</p> <p>Chart uses all of the following:</p> <ul style="list-style-type: none">✓ otu_ids for the x values | <ul style="list-style-type: none">✓ Chart initializes without error✓ Chart updates when a new sample is selected <p>-AND-</p> <p>Chart uses 4 of the following:</p> <ul style="list-style-type: none">✓ otu_ids for the x values | <ul style="list-style-type: none">✓ Chart initializes without error✓ Chart may not update when a new sample is selected <p>-AND-</p> <p>Chart uses 2-3 of the following:</p> <ul style="list-style-type: none">✓ otu_ids for the x values | <ul style="list-style-type: none">✓ Chart may not initialize✓ Chart may not update when a new sample is selected <p>-AND-</p> <p>Chart uses 0-1 of the following:</p> <ul style="list-style-type: none">✓ otu_ids for the x values | |



Data Boot Camp Grading Rubric

Unit 14 - Plot.ly Homework - Belly Button Biodiversity

| | | | | | |
|--------------------------------|---|---|--|---|--|
| | <ul style="list-style-type: none"> ✓ otu_ids for marker colors ✓ sample_values for the y values ✓ sample_values for the marker size ✓ otu_labels for text values | <ul style="list-style-type: none"> ✓ otu_ids for marker colors ✓ sample_values for the y values ✓ sample_values for the marker size ✓ otu_labels for text values | <ul style="list-style-type: none"> ✓ otu_ids for marker colors ✓ sample_values for the y values ✓ sample_values for the marker size ✓ otu_labels for text values | <ul style="list-style-type: none"> ✓ otu_ids for marker colors ✓ sample_values for the y values ✓ sample_values for the marker size ✓ otu_labels for text values | |
| Metadata And Deployment | <p>All of the following:</p> <ul style="list-style-type: none"> ✓ Metadata initializes without error ✓ Metadata updates when a new sample is selected ✓ App Successfully Deployed to Github Pages. | <p>One of the following:</p> <ul style="list-style-type: none"> ✓ Metadata initializes without error ✓ Metadata updates when a new sample is selected <p>-AND-</p> <ul style="list-style-type: none"> ✓ App Successfully Deployed to Github Pages. | <ul style="list-style-type: none"> ✓ Metadata initializes with errors <p>-AND-</p> <ul style="list-style-type: none"> ✓ Metadata does not update when a new sample is selected <p>-AND-</p> <ul style="list-style-type: none"> ✓ App Successfully Deployed to Github Pages. | <ul style="list-style-type: none"> ✓ Metadata initializes with errors <p>-AND-</p> <ul style="list-style-type: none"> ✓ Metadata does not update when a new sample is selected <p>-AND-</p> <ul style="list-style-type: none"> ✓ App not Deployed to Github Pages. | |



Data Boot Camp Grading Rubric

Unit 14 - Plot.ly Homework - Belly Button Biodiversity

| | Mastery 20 points | Approaching Mastery 15 points | Emerging 5-0 points |
|------------------------------------|--|--|--|
| Bonus (Gauge Chart) | All of the following: <ul style="list-style-type: none">✓ Chart initializes without error✓ Chart updates when a new sample is selected✓ Gauge correctly displays the wash frequency from 0-9 | Two of the following: <ul style="list-style-type: none">✓ Chart initializes without error✓ Chart updates when a new sample is selected✓ Gauge correctly displays the wash frequency from 0-9 | <ul style="list-style-type: none">✓ Chart does not work <p>-OR-</p> <ul style="list-style-type: none">✓ Gauge chart code is not provided |