**Instructions:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 (+/-) | 35+ | C (+/-) | 15-24 | F (+/-) | <5 | | B (+/-) | 25-34 | D (+/-) | 5-14 |  |  | |
| **Notes:**  The assignment utilizes **Leaflet** to complete the challenge. The source code should also be deployed to Github or Gitlab |  |

**Rubric for Visualizing Data with Leaflet - Level 1:**

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| --- | --- | --- | --- | --- | --- |
|  | **Mastery**  **20 points** | **Approaching Mastery**  **15 points** | **Progressing**  **10 points** | **Emerging**  **5-0 points** | **Incomplete** |
| **Map** | The rendered leaflet map has all of the following:  ✓ TileLayer loads without error  ✓ Connects to geojson API using D3 without error  ✓ Markers with size corresponding to earthquake magnitude  ✓ A legend showing the depth and their corresponding color | The rendered leaflet map has 2 of the following:  ✓ TileLayer loads without error  ✓ Connects to geojson API using D3 without error  ✓ Markers with size corresponding to earthquake magnitude  ✓ A legend showing the depth and their corresponding color | The rendered leaflet map has 1 of the following:  ✓ TileLayer loads without error  ✓ Connects to geojson API using D3 without error  ✓ Markers with size corresponding to earthquake magnitude  ✓ A legend showing the depth and their corresponding color | The rendered leaflet map has 1 of the following but with errors:  ✓ TileLayer loads without error  ✓ Connects to geojson API using D3 without error  ✓ Markers with size corresponding to earthquake magnitude  ✓ A legend showing the depth and their corresponding color  -OR-  ✓ The leaflet map does not render | No submission was received  -OR-  Submission was empty or blank  -OR-  Submission contains evidence of academic dishonesty |
| **Data Points** | The data points do all of the following:  ✓ Data points scale with magnitude level  ✓ Data points colors change with depth level  ✓ Each point has a tooltip with the Magnitude, the location and depth  ✓ All data points load in the correct locations | The data points do 3 of the following:  ✓ Data points scale with magnitude level  ✓ Data points colors change with depth level  ✓ Each point has a tooltip with the Magnitude, the location and depth  ✓ All data points load in the correct locations | The data points do 2 of the following:  ✓ Data points scale with magnitude level  ✓ Data points colors change with depth level  ✓ Each point has a tooltip with the Magnitude, the location and depth  ✓ All data points load in the correct locations | The data points do 0-1 of the following:  ✓ Data points scale with magnitude level  ✓ Data points colors change with depth level  ✓ Each point has a tooltip with the Magnitude, the location and depth  ✓ All data points load in the correct locations  -OR-  ✓ Data points do not load |

**Bonus:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Mastery**  **10 points** | **Approaching Mastery**  **5 points** | **Emerging**  **0 points** |
| **Map** | The leaflet map has all of the following:  ✓ Control to change basemap  ✓ Control to add/remove layers  ✓ Tectonic plate lines on map | The leaflet map has 2 of the following:  ✓ Control to change basemap  ✓ Control to add/remove layers  ✓ Tectonic plate lines on map | The leaflet map has only 1 of the following:  ✓ Control to change basemap  ✓ Control to add/remove layers  ✓ Tectonic plate lines on map  -OR-  ✓ Bonus is not attempted |