

Req	Step	Description	Point Value
1	1	JSON file successfully accessed using requests module	0
2	2	Successfully create a dictionary that has the three keys specified in the assignment (Coordinates, Holc_grade, name). All key values are of type 'list'	5
3	2	The values for the "Coordinates" key include the correct coordinate values from the JSON file for all 238 districts	5
4	2	The values for the "Holc_grade" key include the correctly assigned grade color based on the values in the JSON file for all 238 districts	5
5	2	The values for the "name" key are assigned (the names are up to you) for all 238 districts	5
6	3	Successfully create a polygon map that includes all the districts from the Step 2 dictionary	10
7	3	Polygon map has correct edgecolor	5
8	3	Polygon map displays the correct colors for each district	5
9	4	Reasonable attempt to understand Step 4 starter code is present in the form of comments. Comments correctly describe what the code is doing.	5
10	4	Starter code is updated to: 1. use correct range 2. capture and save coordinates from all 238 districts as described in the assignment	5
11	4	API is used to find a SINGLE code for each coordinate value from the above step (HINT: don't worry if the coordinate lies on a boundary; you don't need the intersection; the raw codes are 15 characters long and you may need more than just the census tract for Step 5)	10
12	4	Codes from above step are added to you dictionary from Step 2. There should be 238 codes – one for each district	5
13	5	Successfully collect the median income for each census tract in your dictionary (HINT: use string formatting to pull out the correct County and Census Tract codes from the last two steps)	5
14	5	Values from the above step are added to the dictionary	5
15	5	Save the dictionary from this point as a json file. Submit this json file. Load this json file in the code and comment out the api access part of step 5 in your submitted python file.	10
16	6	Mean and median income for all district grades are correctly calculated and assigned to the variables as described in the assignment. Please print the values for a visual check by the graders/GSIs (HINT: look up numpy calculations to help with this)	10
17		Code style is good and complies with 507 Assignment Guide . Assignment submitted following the guidelines from Canvas and Assignment Document.	5
Total			100

Req	EC1 Step	Description	Point Value
1		Map code is added at the bottom of your code file (i.e., you did not edit the original map function)	1
2		Edge color is correctly set for all districts	1
3		Color gradient correctly used to color each district based on median income	3
Total			5