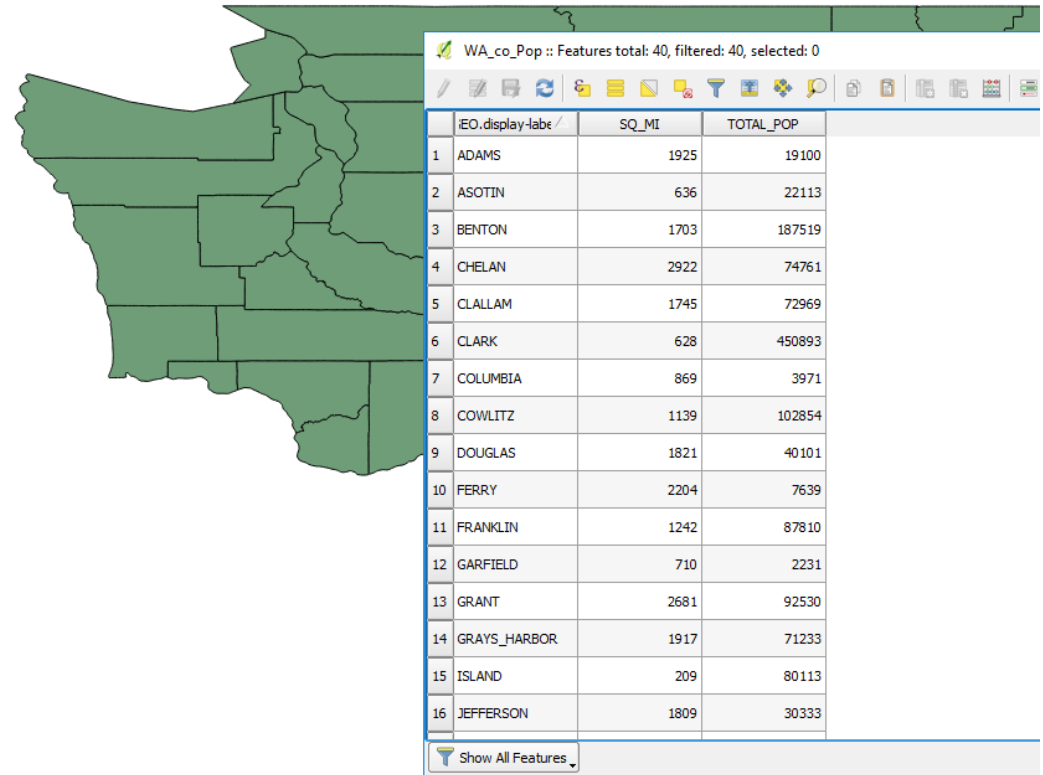
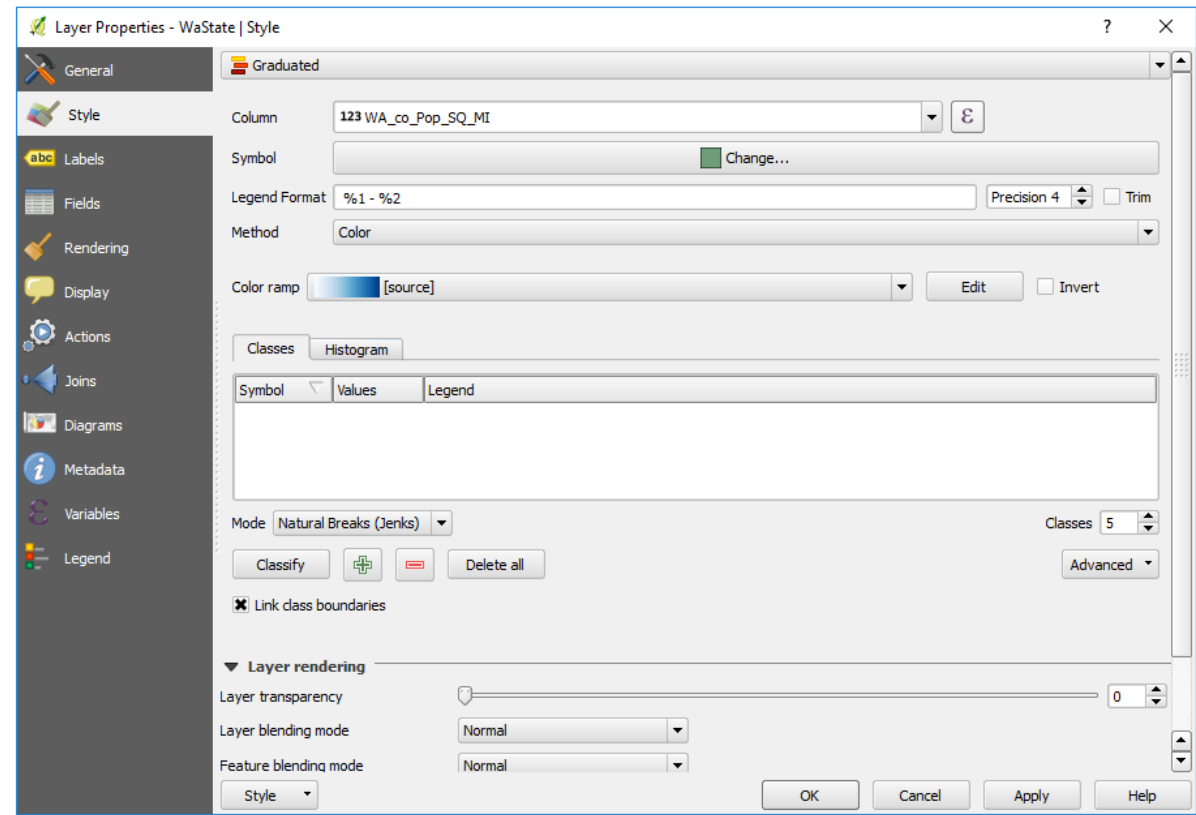


I tried joining my custom data table with a spatial dataset, but I can't activate my results in the symbology tab...

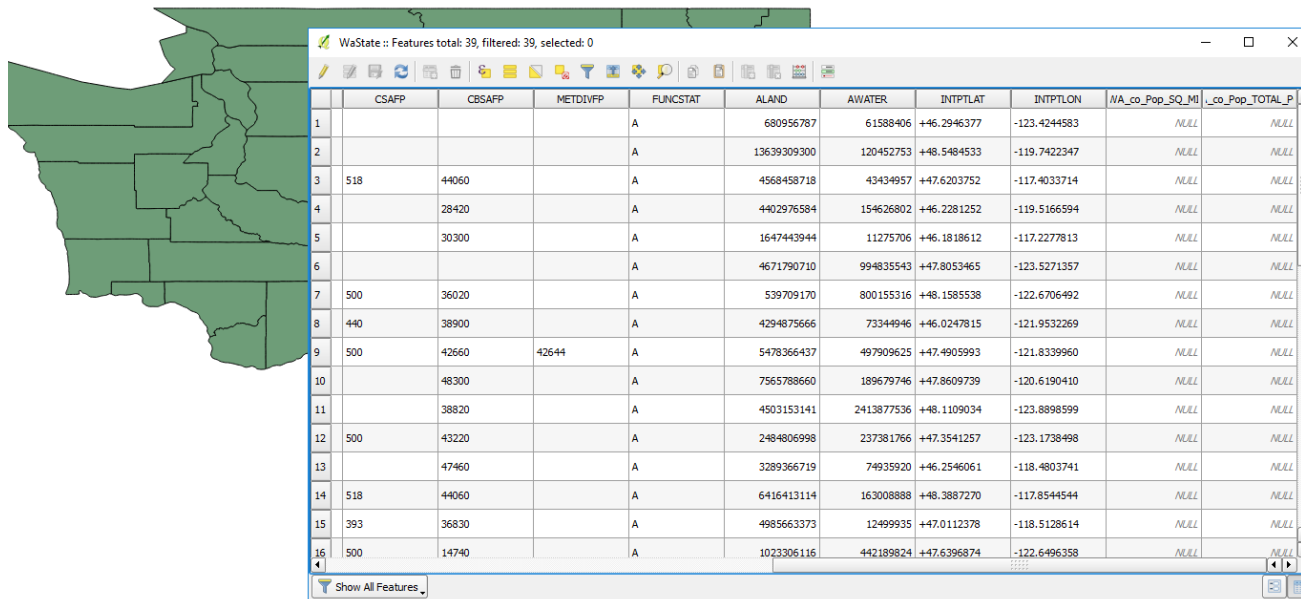
- You've added your spatial data layer and your custom table to your dashboard
- Both seem to open fine



- But when you select your desired column in the symbology tab, nothing will come up in the “Classes” box despite making many different selections



First, diagnose the problem



WaState :: Features total: 39, filtered: 39, selected: 0

	CSAFP	CBSAFP	METDIVFP	FUNCSTAT	ALAND	AWATER	INTPTLAT	INTPTLON	WA_co_Pop_SO_MI	WA_co_Pop_TOTAL_P
1				A	680956787	61588406	+46.2946377	-123.4244583	NULL	NULL
2				A	13639309300	120452753	+48.5484533	-119.7422347	NULL	NULL
3	518	44060		A	4568458718	43434957	+47.6203752	-117.4033714	NULL	NULL
4		28420		A	4402976584	154626802	+46.2281252	-119.5166594	NULL	NULL
5		30300		A	1647443944	11275706	+46.1818612	-117.2277813	NULL	NULL
6				A	4671790710	994835543	+47.8053465	-123.5271357	NULL	NULL
7	500	36020		A	539709170	800155316	+48.1585538	-122.6706492	NULL	NULL
8	440	38900		A	4294875666	73344946	+46.0247815	-121.9532269	NULL	NULL
9	500	42660	42644	A	5478366437	497909625	+47.4905993	-121.8339960	NULL	NULL
10		48300		A	7565788660	189679746	+47.8609739	-120.6190410	NULL	NULL
11		38820		A	4503153141	2413877536	+48.1109034	-123.8898599	NULL	NULL
12	500	43220		A	2484806998	237381766	+47.3541257	-123.1738498	NULL	NULL
13		47460		A	3289366719	74935920	+46.2546061	-118.4803741	NULL	NULL
14	518	44060		A	6416413114	163008888	+48.3887270	-117.8544544	NULL	NULL
15	393	36830		A	4985663373	12499935	+47.0112378	-118.5128614	NULL	NULL
16	500	14740		A	1023306116	442189824	+47.6396874	-122.6496358	NULL	NULL

- Open the attribute table
- In this case, the resulting join is empty
- Typically when this is the result, QGIS has for some reason failed to match your entries
- Unlike ArcMap, Q does not have a join verifier, so you have to check for yourself – get in the habit of doing this

Check your cardinal columns

GEOID	NAME	NAMLSAD	LSAD	CLASSFP	MTFCC	CS
53069	Wahkiakum	Wahkiakum County	06	H1	G4020	
53047	Okanogan	Okanogan County	06	H1	G4020	
53063	Spokane	Spokane County	06	H1	G4020	518
53005	Benton	Benton County	06	H1	G4020	
53003	Asotin	Asotin County	06	H1	G4020	
53031	Jefferson	Jefferson Co				
53029	Island	Island Coun				
53059	Skamania	Skamania Co				
53033	King	King County				
53007	Chelan	Chelan Cour				
53009	Clallam	Clallam Cour				
53045	Mason	Mason Coun				
53071	Walla Walla	Walla Walla				
53065	Stevens	Stevens Co				
53001	Adams	Adams Cour				
53035	Kitsap	Kitsap Coun				

WA_co_Pop :: Features total: 40, filtered: 40, selected: 0			
	GEO.display-label	SQ_MI	TOTAL_POP
1	ADAMS	1925	19100
2	ASOTIN	636	22113
3	BENTON	1703	187519
4	CHELAN	2922	74761
5	CLALLAM	1745	72969
6	CLARK	628	450893
7	COLUMBIA	869	3971
8	COWLITZ	1139	102854
9	DOUGLAS	1821	40101
10	FERRY	2204	7639
11	FRANKLIN	1242	87810
12	GARFIELD	710	2231
13	GRANT	2681	92530
14	GRAYS_HARBOR	1917	71233
15	ISLAND	209	80113
16	JEFFERSON	1809	30333

- For this join, I used NAME and GEO.display-label?
- What's an important difference between how the county names are listed in the first table versus the second table?
- Joins in QGIS and ArcMap are case sensitive!

So we'll have to fix it by changing the text case of the custom data table...

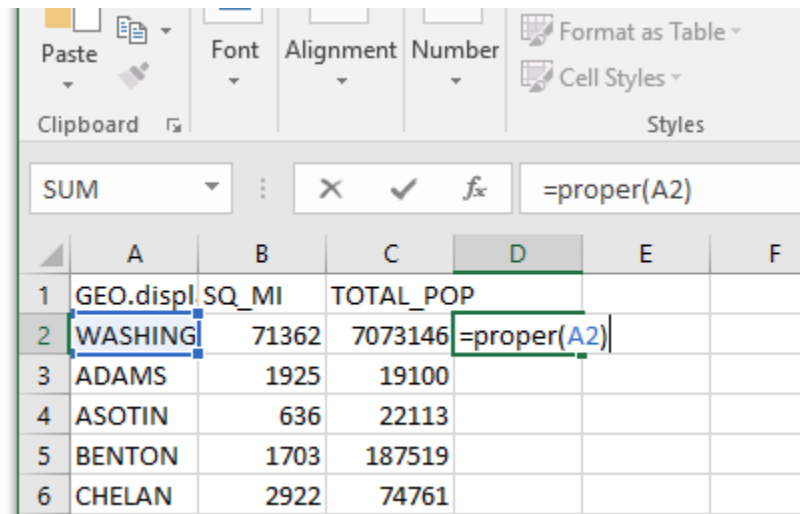
- I prefer to use Excel for this task
- Case – UPPERCASE, lowercase, Proper-case
 - UPPERCASE: all caps
 - Lowercase: no caps
 - Proper-case: first letter of each word capitalized
 - With a simple excel formula you can rewrite the case of your column so that your join cardinals will properly match

The screenshot shows an Excel spreadsheet with the following data:

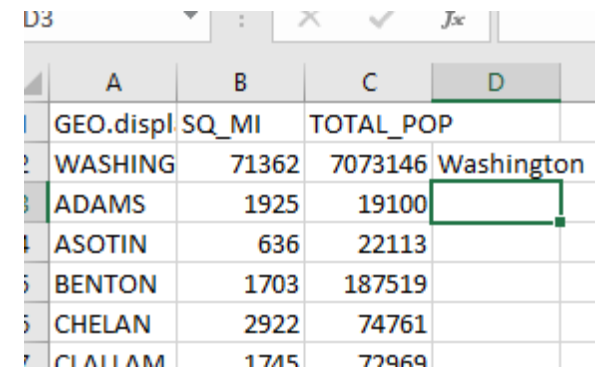
	A	B	C	D
1	GEO.displ	SQ_MI	TOTAL_POP	
2	WASHING	71362	7073146	
3	ADAMS	1925	19100	
4	ASOTIN	636	22113	
5	BENTON	1703	187519	
6	CHELAN	2922	74761	
7	CLALLAM	1745	72969	
8	CLARK	628	450893	
9	COLUMBIA	869	3971	
10	COWLITZ	1139	102854	
11	DOUGLAS	1821	40101	
12	FERRY	2204	7639	
13	FRANKLIN	1242	87810	
14	GARFIELD	710	2231	
15	GRANT	2681	92530	
16	GRAYS_HA	1917	71233	
17	ISLAND	209	80113	
18	JEFFERSO	1809	30333	
19	KING	2126	2079550	
20	KITSAP	396	257488	
21	KITTITAS	2297	42785	
22	KLICKITAT	1872	20930	
23	LEWIS	2408	75724	
24	LINCOLN	2311	10326	
25	MASON	961	61060	
26	OKANOGA	5268	41299	
27	PACIFIC	975	20743	
28	PEND ORI	1400	13001	

In a neighboring column, type “=proper(A2)”

- Make sure that your column selection aligns properly
- This formula tells excel to rewrite the contents of cell A2 in the Proper case



	A	B	C	D	E	F
1	GEO.displ	SQ_MI	TOTAL_POP			
2	WASHING	71362	7073146	=proper(A2)		
3	ADAMS	1925	19100			
4	ASOTIN	636	22113			
5	BENTON	1703	187519			
6	CHELAN	2922	74761			



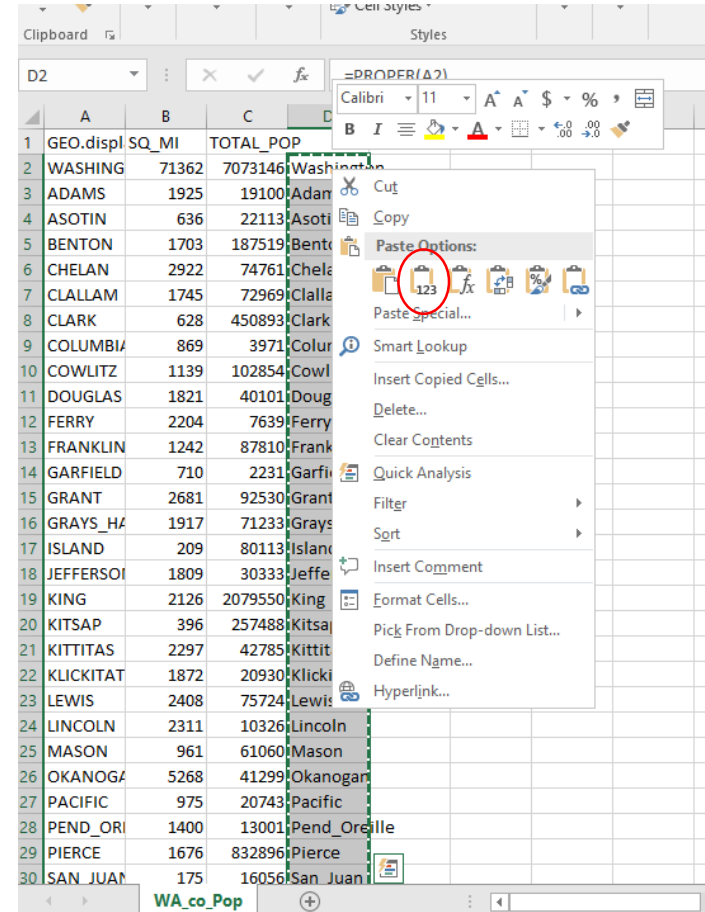
	A	B	C	D
1	GEO.displ	SQ_MI	TOTAL_POP	
2	WASHING	71362	7073146	Washington
3	ADAMS	1925	19100	
4	ASOTIN	636	22113	
5	BENTON	1703	187519	
6	CHELAN	2922	74761	
7	CLALLAM	1745	72969	

Click and drag the box at the bottom right corner of the cell to paste the formula through the dataset

- Also make sure that your spacing methods match between each dataset
- Note how Grays Harbor in this dataset is listed as Grays_Harbor
- Browse your other dataset's cardinals to make sure that these cells are formatted properly
- You can use the Find/Replace function to make updates if needed

	A	B	C	D	E
14	GARFIELD	710	2231	Garfield	
15	GRANT	2681	92530	Grant	
16	GRAYS_HA	1917	71233	Grays_Harbor	
17	ISLAND	209	80113	Island	
18	JEFFERSON	1809	30333	Jefferson	
19	KING	2126	2079550	King	
20	KITSAP	396	257488	Kitsap	
21	KITTITAS	2297	42785	Kittitas	
22	KLICKITAT	1872	20930	Klickitat	
23	LEWIS	2408	75724	Lewis	
24	LINCOLN	2311	10326	Lincoln	
25	MASON	961	61060	Mason	
26	OKANOGA	5268	41299	Okanogan	
27	PACIFIC	975	20743	Pacific	
28	PEND_ORI	1400	13001	Pend_Orille	
29	PIERCE	1676	832896	Pierce	
30	SAN_JUAN	175	16056	San_Juan	
31	SKAGIT	1735	120475	Skagit	
32	SKAMANIA	1656	11316	Skamania	
33	SNOHOMI	2090	758649	Snohomish	
34	SPOKANE	1764	485859	Spokane	
35	STEVENS	2478	43744	Stevens	
36	THURSTON	727	266311	Thurston	
37	WAHIAKIA	264	4051	Wahkiakum	
38	WALLA_W	1270	59809	Walla_Walla	
39	WHATCOM	2120	209729	Whatcom	
40	WHITMAN	2159	47494	Whitman	
41	YAKIMA	4296	247681	Yakima	
42					

- Next, highlight, copy and select “Paste Values” into the same row
- Note in the sample image that the formula is the genuine text within the dataset – not the values themselves
- Once you paste the values, the Proper case text will populate the column



Save and use!

- Feel free to copy the newly written column into the original, and give the new column a distinct head
- Whatever you decide, make sure you are using the Proper case text as your Join cardinal