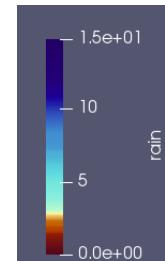
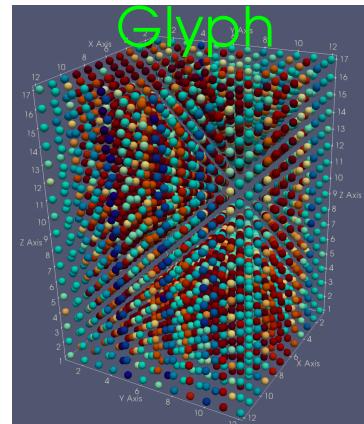
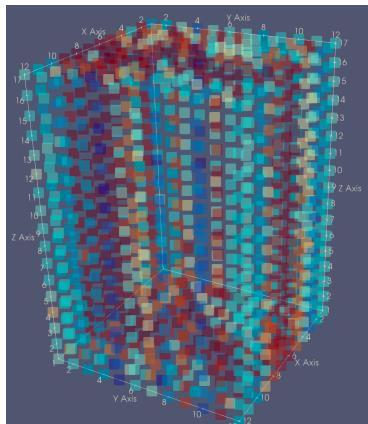


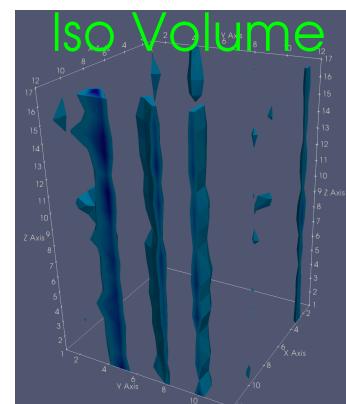
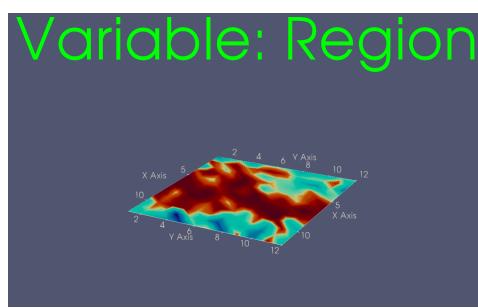
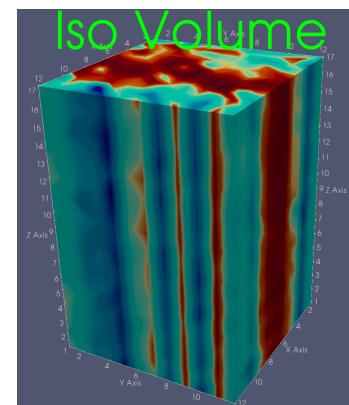
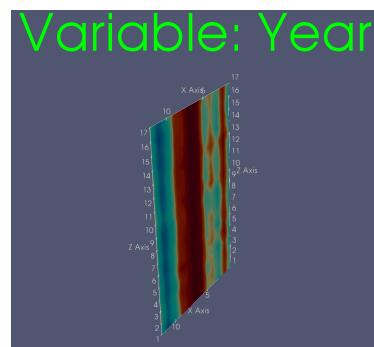
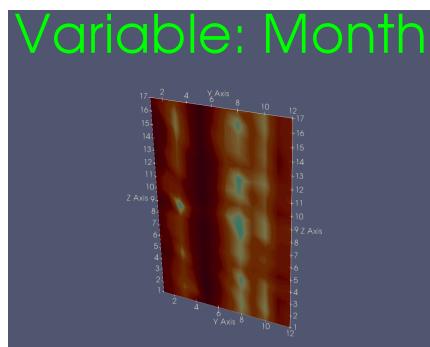
Data Project

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1. The images that you have produced



Color transfer function:
modified Warm to Cool
(Extended)



Data Project

2. A link to a video showing interacting with the data
https://media.oregonstate.edu/media/t/0_mn82e0xd

3. What insights did you gain from doing this?

By visualizing the data as 3D plot, it is easier to see the impact of different months, years, and regions on the amount of rainfall. Furthermore, the usage of slice filters let us see the variation of changing only one variable in the graph. We can discover that different month has great affect on the rainfall.

4. Tell me about your data! What is it? Where did it come from? What are using it to show?

Name: Observed monthly rain gauge accumulation

Website: DATA.GOV

URL: <https://catalog.data.gov/dataset/observed-monthly-rain-gauge-accumulations>

Data description: Monthly accumulations for rain gauges located in Seattle from October 2002 to May 2017. The modified data for Paraview is from January 2003 to December 2014. I use months as x-axis, years as y-axis, and regions as z-axis to show a 3D cube. Each point in the x-y-z coordinate corresponds to the value of rainfall of certain date in specific region.

(part of the data)

Date	RG01	RG02	RG03	RG04	RG05	RG07	RG08
11/30/02	2.43	3.36	2.88	2.48	0.78	2.49	2.57
12/31/02	4.31	1.4	5.46	4.8	1.99	5.06	2.48
1/31/03	6.55	7.35	5.84	6.48	7.57	4.47	7.39
2/28/03	1.61	1.81	1.7	1.49	1.11	1.5	1.56
3/31/03	5.01	5.88	3.12	5.01	5.09	5.15	5.14
4/30/03	2.27	3.15	2.69	2.56	2.2	2.49	2.5
5/31/03	0.91	1.49	1.51	1.4	0.43	1.59	0.98
6/30/03	0.49	0.89	0.4	0.34	0.57	0.94	0.75
7/31/03	0.12	0.18	0.16	0.51	0.17	0.89	0.21
8/31/03	0.33	0.46	0.29	0.26	0.37	1.33	0.57
9/30/03	0.97	0.2	0.39	0.91	0.66	1.92	0.63
10/31/03	6.32	7.75	6.33	5.23	6.59	6.72	6.99
11/30/03	2.54	4.51	5.09	5.15	5.76	6.47	5.93
12/31/03	3.19	3.9	3.04	2.69	3.14	4.68	4.58

(location of gauges in Seattle)

