

Questionnaire Results

Description	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	Mean
Age	24	24	21	25	28	27	28	27	25	26	27	27	26.5
Gender	M	F	M	F	M	M	M	M	M	F	M	M	
Occupation	Student	Student	Student	Student	Student	Student	Student	Student	Student	Student	Mechanic Engineering	Student	
Experience level in Information Visualization <i>1(novice) ... 7(expert)</i>	3	6	3	4	5	4	2	3	3	4	1	4	3.5

Task Related Questions

Description <i>Likert-scale: 1(totally disagree) ... 7 (totally agree)</i>	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	Mean
I find it easy to...													
1. refine the skyline queries	7	7	6	7	5	6	7	7	7	7	7	6	6.6
2. identify clusters & outliers in skyline	6	6	7	7	6	6	7	7	7	6	7	7	6.6
3. see how the other points differ from a specific point in general	6	7	7	7	6	7	6	6	7	6	6	7	6.5
4. see a point's relative ranking on each attribute	6	7	7	7	6	6	7	5	4	6	7	6	6.2
5. see a point's raw value on each attribute	5	7	6	7	5	6	7	6	6	7	7	7	6.3
6. know what combinations of attributes make a point in skyline	6	7	6	7	6	6	7	7	7	7	6	7	6.6
7. compare a few points regarding the attribute values in details	7	7	7	7	4	7	7	7	7	7	7	6	6.7
8. compare a few points about the differences between their dominated points	6	7	7	7	5	5	7	7	7	6	7	7	6.5
9. filter the skyline points	7	6	5	7	6	7	7	7	7	7	6	6	6.5

View Related Questions

Description <i>Likert-scale: 1(totally disagree) ... 7 (totally agree)</i>	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	Mean
10. I found the focus mode in Projection view makes it easier to understand the differences between a specific skyline point with others.	6	7	6	7	6	7	7	6	6	7	5	7	6.4
11. I found the expansion mode in Tabular View is easy to understand.	5	7	4	7	6	5	6	6	6	7	6	5	5.8
12. I found the interactive highlighting mode in Comparison View is useful	7	7	7	6	6	6	7	7	7	6	7	6	6.6

Overall Questions

Description <i>Likert-scale: 1(totally disagree) ... 7 (totally agree)</i>	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	Mean
13. The visualization is visually pleasing in general.	7	7	7	7	6	6	7	7	6	6	7	6	6.6
14. The interactions are easy in general.	6	6	7	7	5	7	7	7	6	6	6	6	6.3
15. I think the tool would be useful for many different application scenarios (e.g., booking hotels, buying cars).	6	7	6	7	6	7	7	7	7	7	6	6	6.6

Compare against Lineup

Description <i>Likert-scale: 1(totally disagree) ... 7 (totally agree)</i>	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	Mean
16. Estimate your experience level in LineUp. <i>1(novice) ... 7(expert)</i>	5	4	1	1	3	6	4	1	1	1	1	1	2.4
17. I think it would be possible to solve the tasks in LineUp.	3	4	3	3	4	3	6	1	2	7	6	2	3.7
18. I think SkyLens will improve task completion time compared to LineUp.	6	6	5	6	4	6	7	7	6	6	6	6	5.9
19. I think SkyLens will help to gain more insights for complex multi-criteria decision making scenarios compared to LineUp.	6	6	7	7	5	7	7	7	7	7	7	6	6.5