

Initial Survey

* Required

1. Email address *

2. Do you accept the data to be considered for dissertation purposes? *

Check all that apply.

☐ Yes, I accept that the data I submit will be considered for dissertation purposes.

3. Full Name *

4. Age *

5. Gender *

Mark only one oval.

☐ Male

☐ Female

6. Degree of literacy *

Mark only one oval.

☐ Basic

☐ Secondary

☐ Bachelor

☐ Master

☐ Other

7. Nationality *

8. Do you have experience visualizing information? *

Mark only one oval.

☐ Yes

☐ No

9. Are you experienced with mobile virtual immersive environments, virtual reality or augmented reality? *

Mark only one oval.

☐ Yes

☐ No

Temperature over the years

Analyze the relationship of years and / or months with temperatures, since there are records, from stations around the world.

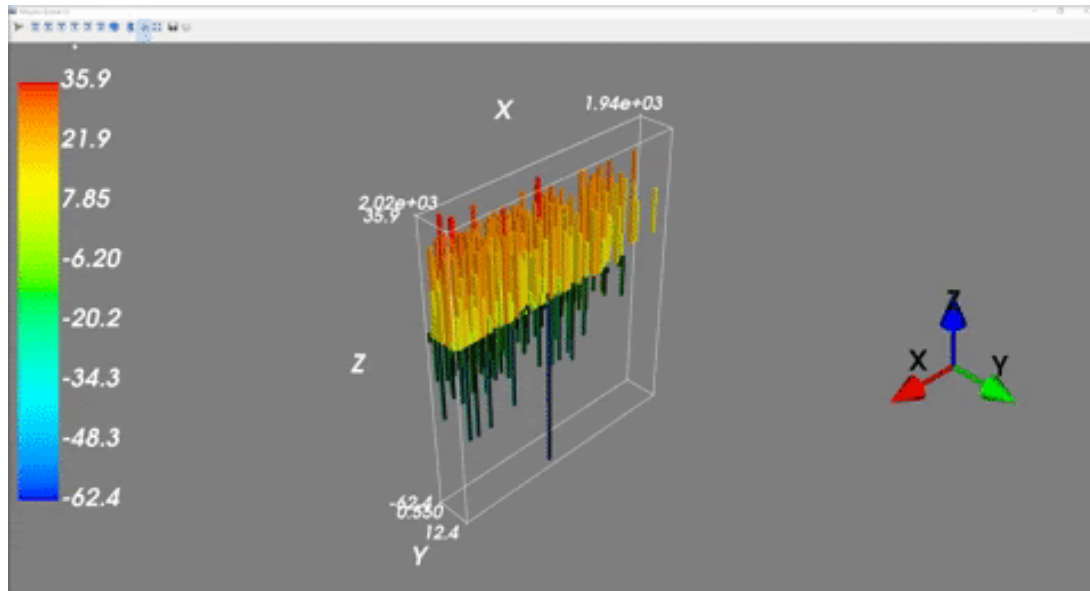
In this section the views have the following caption

x= years

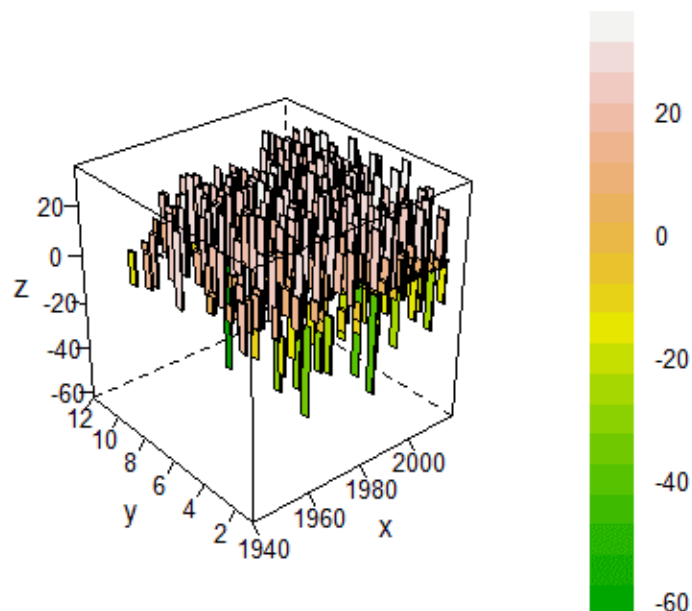
y= months

z= temperature (°C)

Python Mayavi barchart()



R latticeExtra



Data-Room bar chart

Go to the Data-Room application and click on menu button 1.

10. In which of the visual representations is it easier to identify the highest temperature value? *

Mark only one oval.

- ☐ Python Mayavi barchart()
- ☐ R latticeExtra
- ☐ Data-Room bar chart

11. What value did you identify? (rounded down to units) *

Mark only one oval.

- ☐ 35
- ☐ 43
- ☐ 34
- ☐ Other

12. What do you consider relevant in the visualization? *

Check all that apply.

- ☐ A. Axes for spatial dimensions (x, y and z)
- ☐ B. Color scale for temperature mapping
- ☐ C. Overview of the chart
- ☐ D. Immersive Visualization
- ☐ E. Zoom in and out
- ☐ F. Amount of data

13. Regarding the previous question, indicate the order of priorities (Example - ADB). *

14. Which environment allows for easier interaction / exploration? *

Mark only one oval.

- ☐ Python Mayavi barchart()
- ☐ R latticeExtra
- ☐ Data-Room bar chart

15. Which environment is most desirable to see on a mobile phone screen? *

Mark only one oval.

- ☐ Python Mayavi barchart()
- ☐ R latticeExtra
- ☐ Data-Room bar chart

Temperature in the last 10 years

Analyze the relationship of years and / or months with temperatures, using data from the past 10 years, from stations around the world.

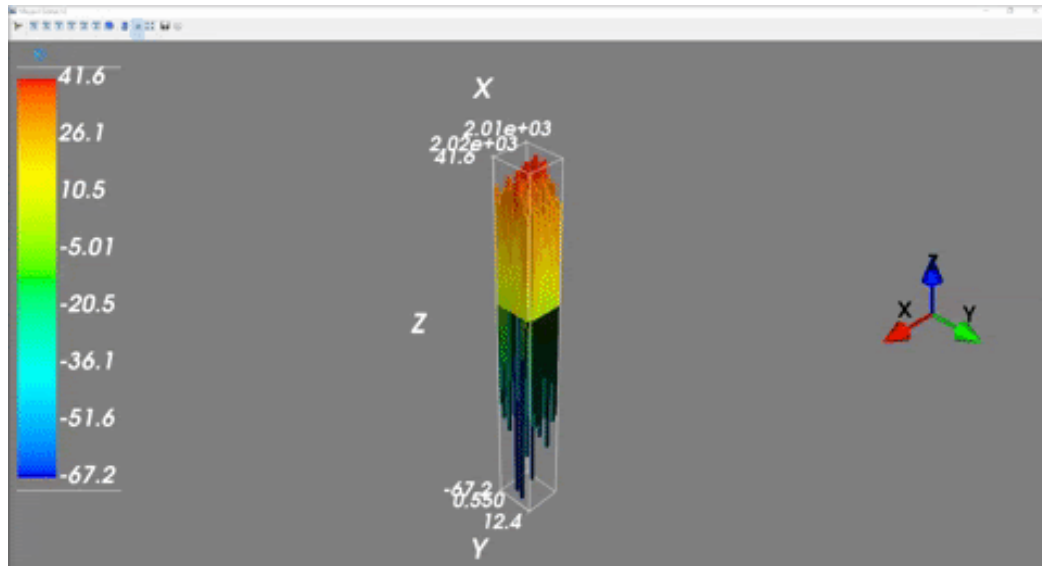
In this section the views have the following caption

x= years

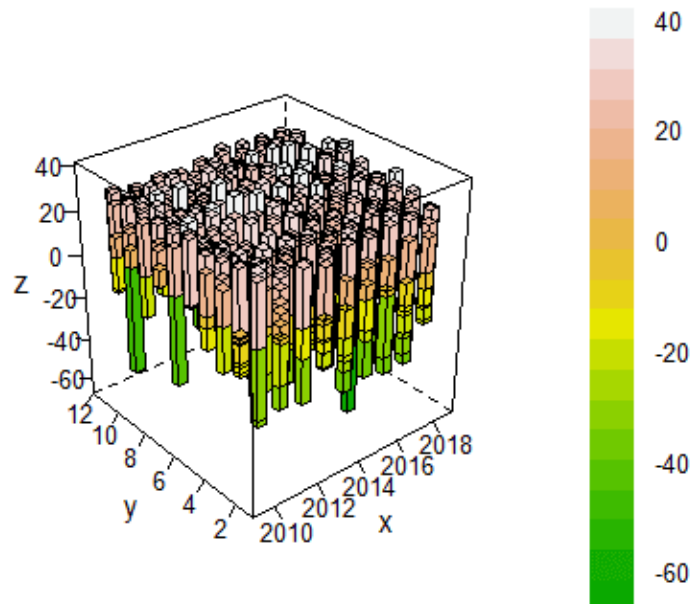
y= months

z= temperature (°C)

Python Mayavi barchart()



R latticeExtra



Data-Room bar chart

Go to the Data-Room application and click on menu button 2.

16. In which of the visual representations is it easier to identify the lowest temperature value?

*

Mark only one oval.

- ☐ Python Mayavi barchart()
- ☐ R latticeExtra
- ☐ Data-Room bar chart

17. What value did you identify? (rounded down to units) **Mark only one oval.*

- ☐ -81
- ☐ -61
- ☐ -67
- ☐ Other

18. What do you consider relevant in the visualization? **Check all that apply.*

- ☐ A. Axes for spatial dimensions (x, y and z)
- ☐ B. Color scale for temperature mapping
- ☐ C. Overview of the chart
- ☐ D. Immersive Visualization
- ☐ E. Zoom in and out
- ☐ F. Amount of data

19. Regarding the previous question, indicate the order of priorities (Example - ADB). *

20. Which environment allows for easier interaction / exploration? **Mark only one oval.*

- ☐ Python Mayavi barchart()
- ☐ R latticeExtra
- ☐ Data-Room bar chart

21. Which environment is most desirable to see on a mobile phone screen? **Mark only one oval.*

- ☐ Python Mayavi barchart()
- ☐ R latticeExtra
- ☐ Data-Room bar chart

Temperature in the last 10 years in Cabo Carvoeiro

Analyze the relationship of years and / or months with temperatures, using data from the past 10 years, in Cabo Carvoeiro.

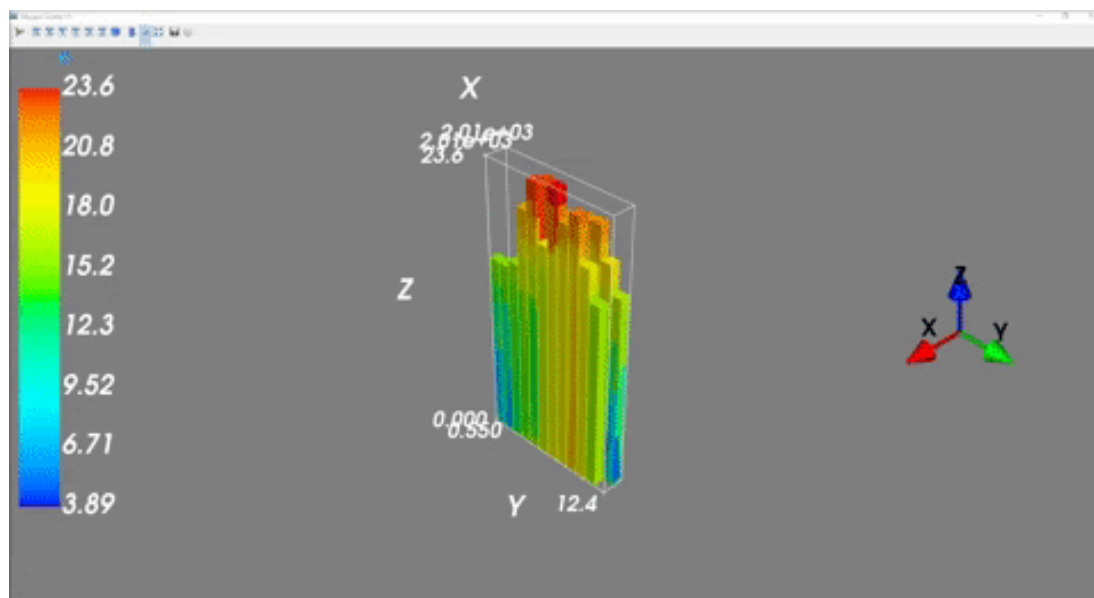
In this section the views have the following caption

x= years

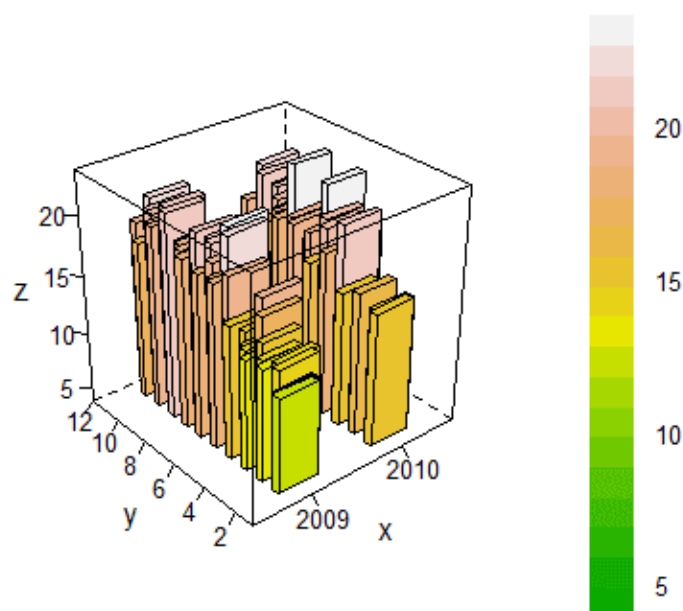
y= months

z= temperature (°C)

Python Mayavi barchart()



R latticeExtra



Data-Room bar chart

Go to the Data-Room application and click on menu button 3.

22. In which of the visual representations is it easier to identify the last year in which we have records? *

Mark only one oval.

- ☐ Python Mayavi barchart()
- ☐ R latticeExtra
- ☐ Data-Room bar chart

23. What value did you identify? **Mark only one oval.*

- ☐ 2009
- ☐ 2010
- ☐ 2013
- ☐ Other

24. What do you consider relevant in the visualization? **Check all that apply.*

- ☐ A. Axes for spatial dimensions (x, y and z)
- ☐ B. Color scale for temperature mapping
- ☐ C. Overview of the chart
- ☐ D. Immersive Visualization
- ☐ E. Zoom in and out
- ☐ F. Amount of data

25. Regarding the previous question, indicate the order of priorities (Example - ADB). *

26. Which environment allows for easier interaction / exploration? **Mark only one oval.*

- ☐ Python Mayavi barchart()
- ☐ R latticeExtra
- ☐ Data-Room bar chart

27. Which environment is most desirable to see on a mobile phone screen? **Mark only one oval.*

- ☐ Python Mayavi barchart()
- ☐ R latticeExtra
- ☐ Data-Room bar chart

Temperature over the years in Cabo Carvoeiro

Analyze the relationship of years and / or days with temperatures, in Cabo Carvoeiro.

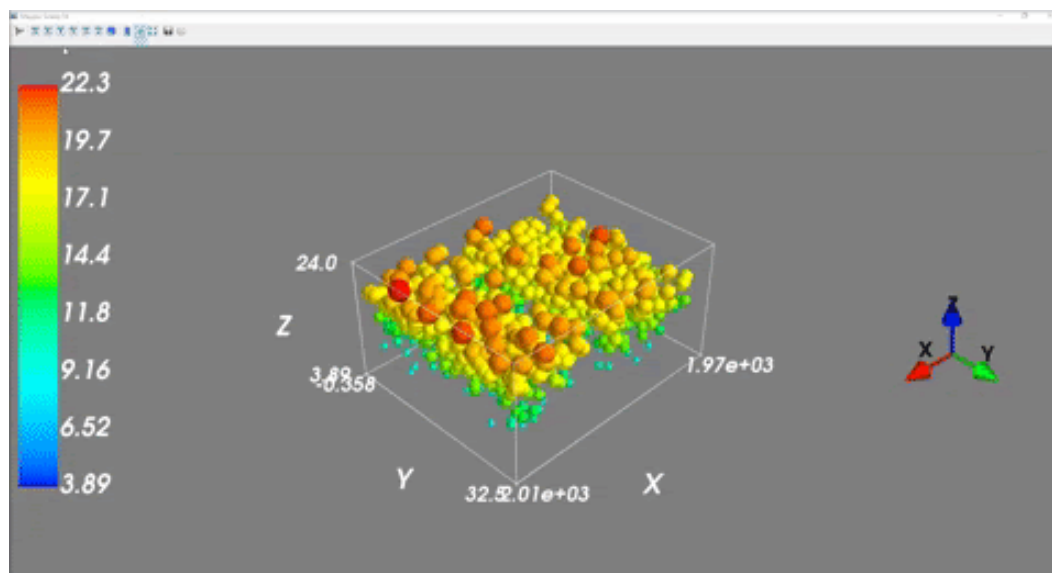
In this section the views have the following caption

x= years

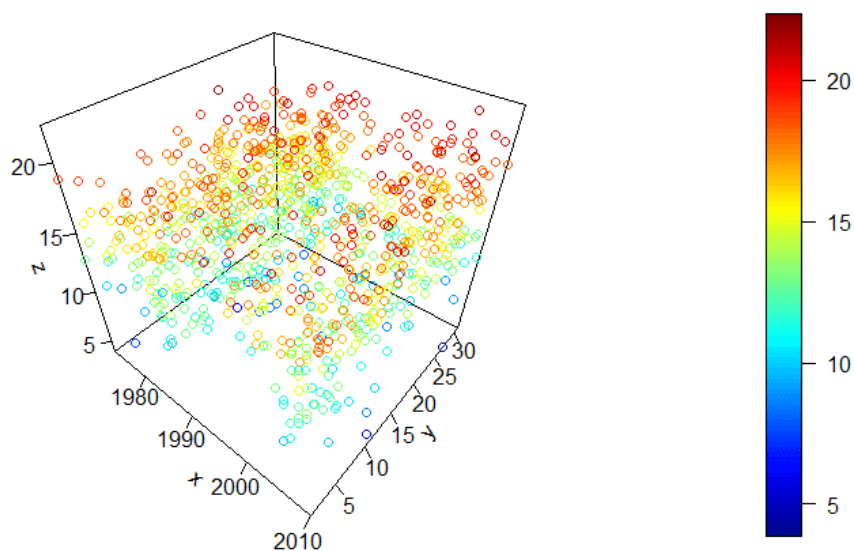
y= days

z= temperature (°C)

Python Mayavi points3d()



R plot3D



Data-Room bubble chart

Go to the Data-Room application and click on menu button 4.

28. In which of the visual representations is it easier to identify temperature variation? *

Mark only one oval.

- ☐ Python Mayavi points3D()
- ☐ R plot3D
- ☐ Data-Room bubble chart

29. What values is the temperature varying between? **Mark only one oval.*

- ☐ 4 e 25
- ☐ 3 e 25
- ☐ 5 e 20
- ☐ Other

30. What do you consider relevant in the visualization? **Check all that apply.*

- ☐ A. Axes for spatial dimensions (x, y and z)
- ☐ B. Color scale for temperature mapping
- ☐ C. Overview of the chart
- ☐ D. Immersive Visualization
- ☐ E. Zoom in and out
- ☐ F. Amount of data

31. Regarding the previous question, indicate the order of priorities (Example - ADB). *

32. Which environment allows for easier interaction / exploration? **Mark only one oval.*

- ☐ Python Mayavi points3D()
- ☐ R plot3D
- ☐ Data-Room bubble chart

33. Which environment is most desirable to see on a mobile phone screen? **Mark only one oval.*

- ☐ Python Mayavi points3D()
- ☐ R plot3D
- ☐ Data-Room bubble chart

Temperature in the last 10 years in Cabo Carvoeiro

Analyze the relationship of years and / or days with temperatures, using data from the past 10 years, in Cabo Carvoeiro.

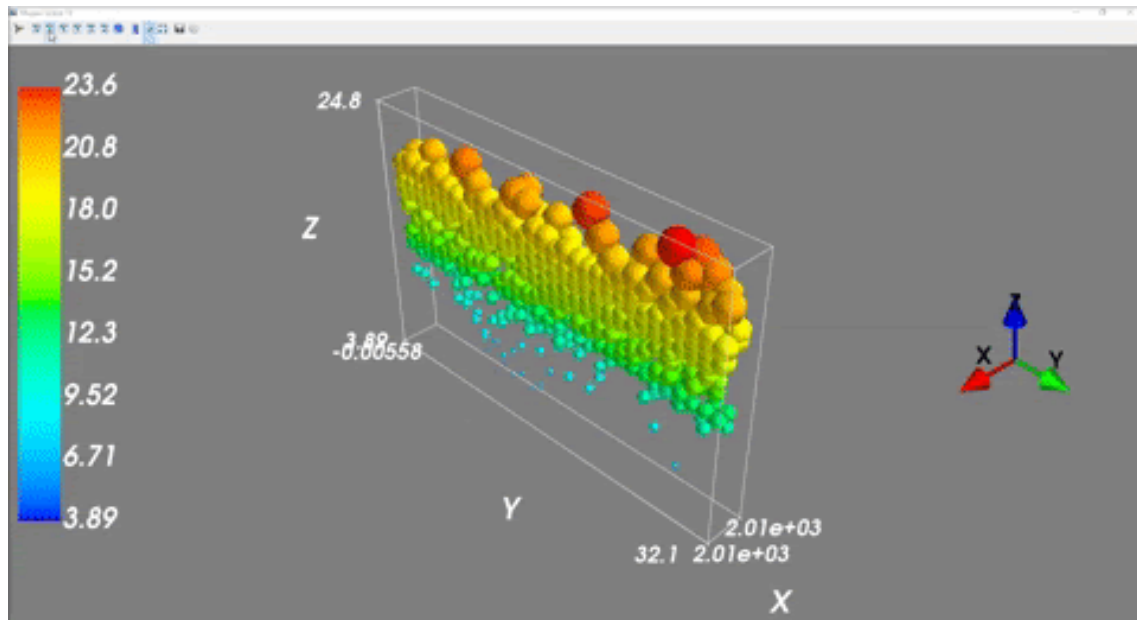
In this section the views have the following caption

x= years

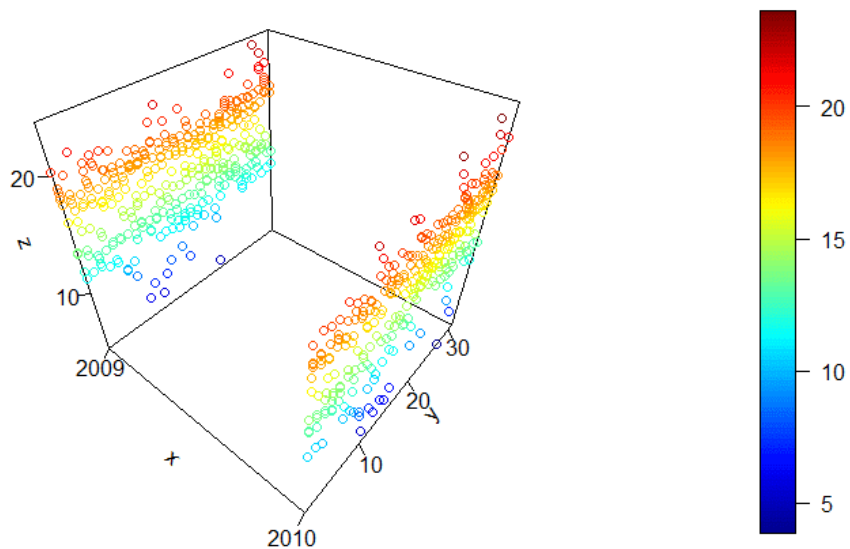
y= days

z= temperature (°C)

Python Mayavi points3d()



R plot3D



Data-Room bubble chart

Go to the Data-Room application and click on menu button 5.

34. In which of the visual representations is it easier to identify the highest temperature value? *

Mark only one oval.

- ☐ Python Mayavi points3D()
- ☐ R plot3D
- ☐ Data-Room bubble chart

35. What value did you identify? (rounded down to units) **Mark only one oval.*

- ☐ 23
- ☐ 15
- ☐ 30
- ☐ Other

36. What do you consider relevant in the visualization? **Check all that apply.*

- ☐ A. Axes for spatial dimensions (x, y and z)
- ☐ B. Color scale for temperature mapping
- ☐ C. Overview of the chart
- ☐ D. Immersive Visualization
- ☐ E. Zoom in and out
- ☐ F. Amount of data

37. Regarding the previous question, indicate the order of priorities (Example - ADB). *

38. Which environment allows for easier interaction / exploration? **Mark only one oval.*

- ☐ Python Mayavi points3D()
- ☐ R plot3D
- ☐ Data-Room bubble chart

39. Which environment is most desirable to see on a mobile phone screen? **Mark only one oval.*

- ☐ Python Mayavi points3D()
- ☐ R plot3D
- ☐ Data-Room bubble chart

Temperature in the last 10 years in Cabo Carvoeiro

Analyze the relationship of months and / or days with temperatures, using data from the past 10 years, from Cabo Carvoeiro.

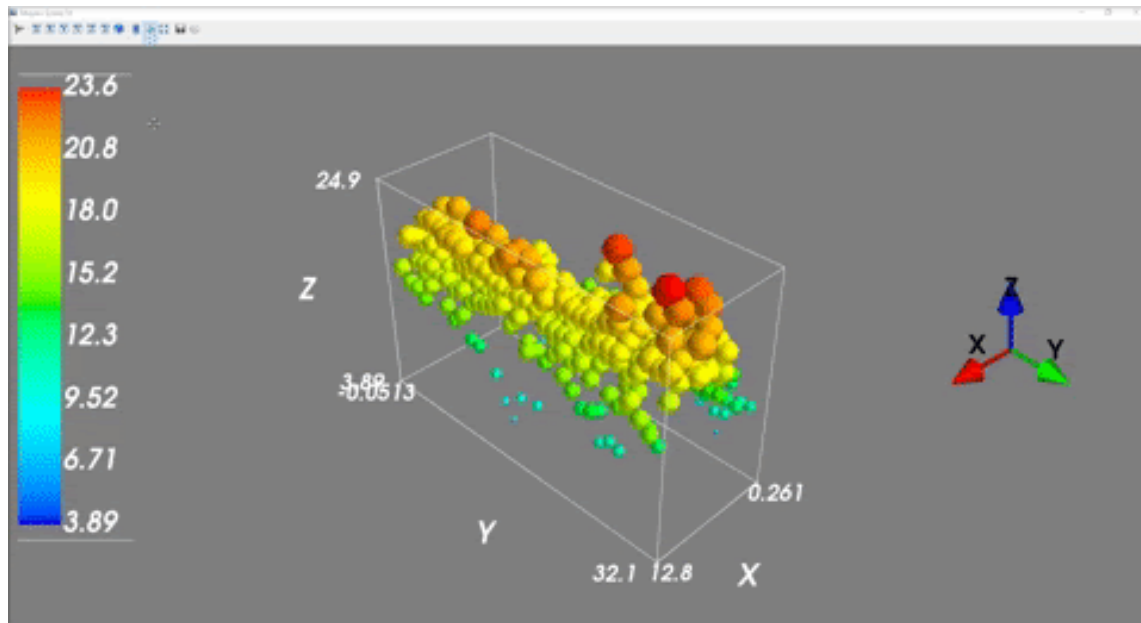
In this section the views have the following caption

x= months

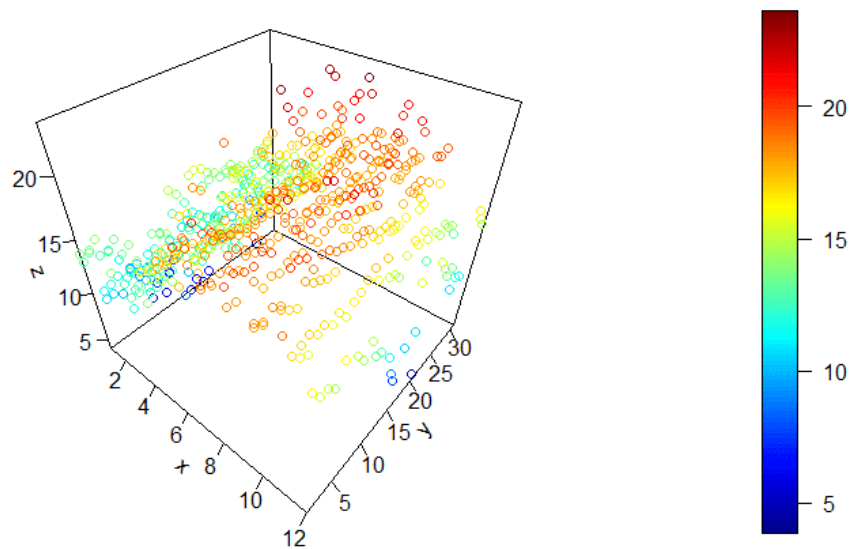
y= days

z= temperature (°C)

Python Mayavi points3d()



R plot3D



Data-Room bubble chart

Go to the Data-Room application and click on menu button 6.

40. In which of the visual representations is it easier to identify the month with the highest temperature? *

Mark only one oval.

- ☐ Python Mayavi points3D()
- ☐ R plot3D
- ☐ Data-Room bubble chart

41. What month did you identify? **Mark only one oval.*

- ☐ May
- ☐ July
- ☐ August
- ☐ October

42. What do you consider relevant in the visualization? **Check all that apply.*

- ☐ A. Axes for spatial dimensions (x, y and z)
- ☐ B. Color scale for temperature mapping
- ☐ C. Overview of the chart
- ☐ D. Immersive Visualization
- ☐ E. Zoom in and out
- ☐ F. Amount of data

43. Regarding the previous question, indicate the order of priorities (Example - ADB). *

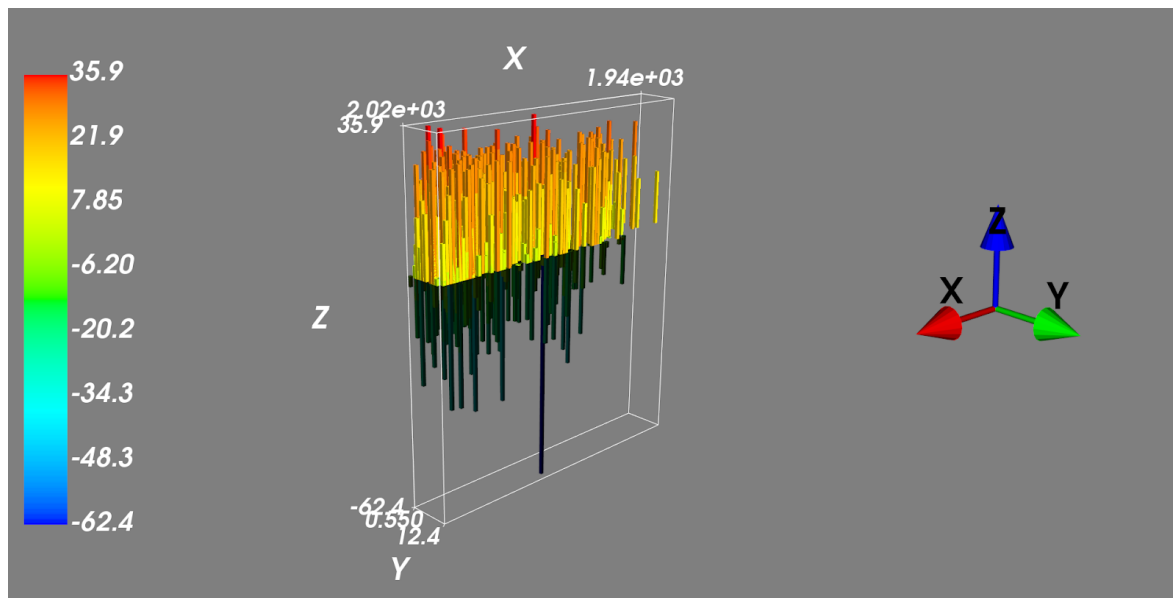
44. Which environment allows for easier interaction / exploration? **Mark only one oval.*

- ☐ Python Mayavi points3D()
- ☐ R plot3D
- ☐ Data-Room bubble chart

45. Which environment is most desirable to see on a mobile phone screen? **Mark only one oval.*

- ☐ Python Mayavi points3D()
- ☐ R plot3D
- ☐ Data-Room bubble chart

General - Python Mayavi barchart()**Python Mayavi barchart()**



46. How do you rate your level of engagement in this visualization? *

Mark only one oval.

	1	2	3	4	5	
Not engaged	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very engaged

47. How do you rate the overall visualization? *

Mark only one oval.

	1	2	3	4	5	
Horrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

48. Visualization's satisfaction level *

Mark only one oval.

	1	2	3	4	5	
No satisfaction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very satisfactory

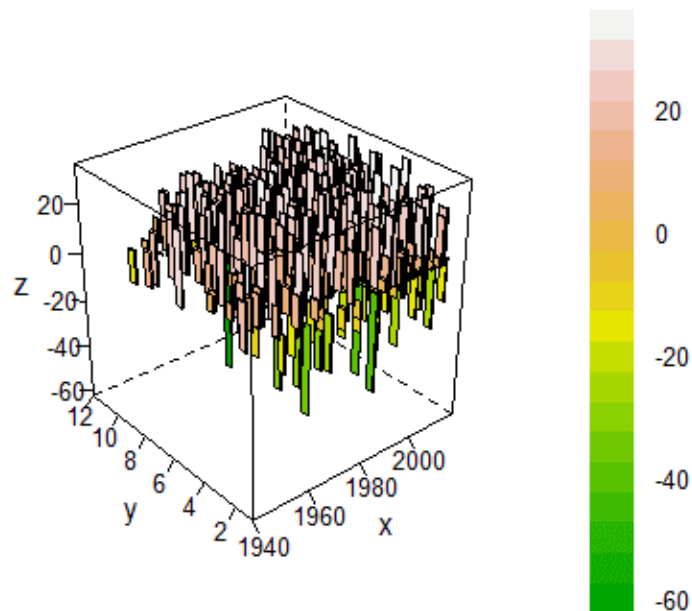
49. Easiness to focus on this visualization *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

General - R latticeExtra

R latticeExtra



50. How do you rate your level of commitment in this experiment? *

Mark only one oval.

	1	2	3	4	5	
Not engaged	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very engaged

51. How do you rate the overall view? *

Mark only one oval.

	1	2	3	4	5	
Horrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

52. Visualization's satisfaction level *

Mark only one oval.

	1	2	3	4	5	
No satisfaction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very satisfactory

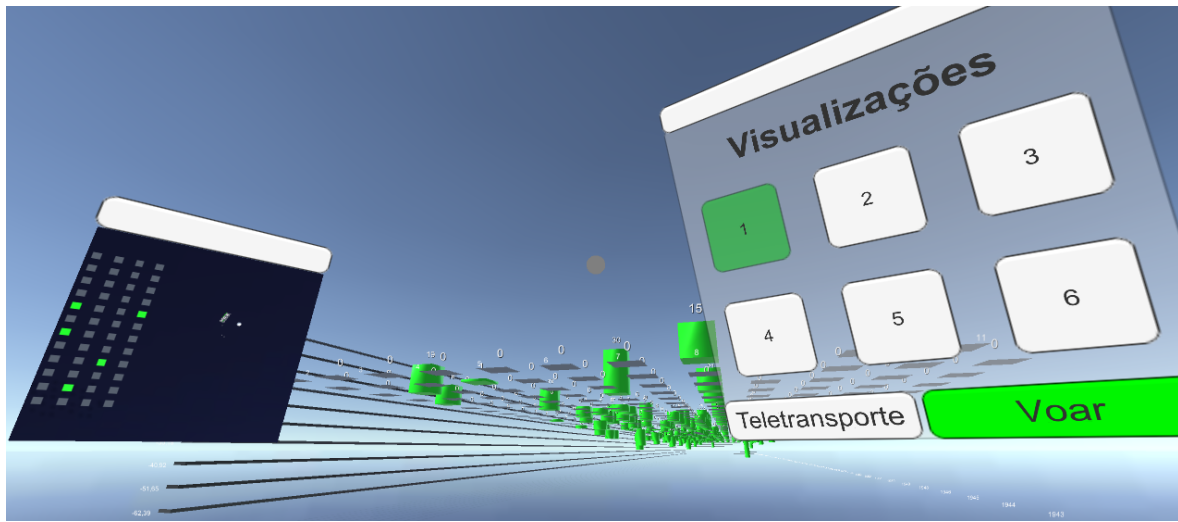
53. Easiness to focus on this visualization *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

General - Data-Room gráfico de barras

Data-Room gráfico de barras



54. How do you rate your level of commitment in this experiment? *

Mark only one oval.

	1	2	3	4	5	
Not engaged	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very engaged

55. How do you rate the overall view? *

Mark only one oval.

	1	2	3	4	5	
Horrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

56. Visualization's satisfaction level *

Mark only one oval.

	1	2	3	4	5	
No satisfaction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very satisfactory

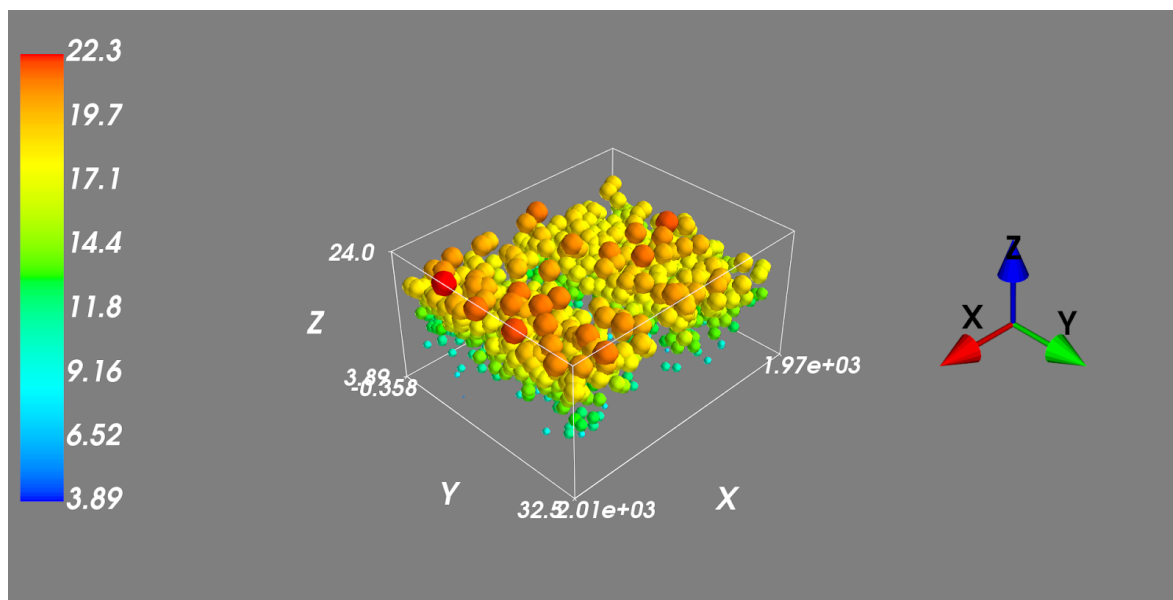
57. Easiness to focus on this visualization *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

General - Python Mayavi points3d()

Python Mayavi points3d()



58. How do you rate your level of commitment in this experiment? *

Mark only one oval.

	1	2	3	4	5	
Not engaged	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very engaged

59. How do you rate the overall view? *

Mark only one oval.

	1	2	3	4	5	
Horrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

60. Visualization's satisfaction level *

Mark only one oval.

	1	2	3	4	5	
No satisfaction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very satisfactory

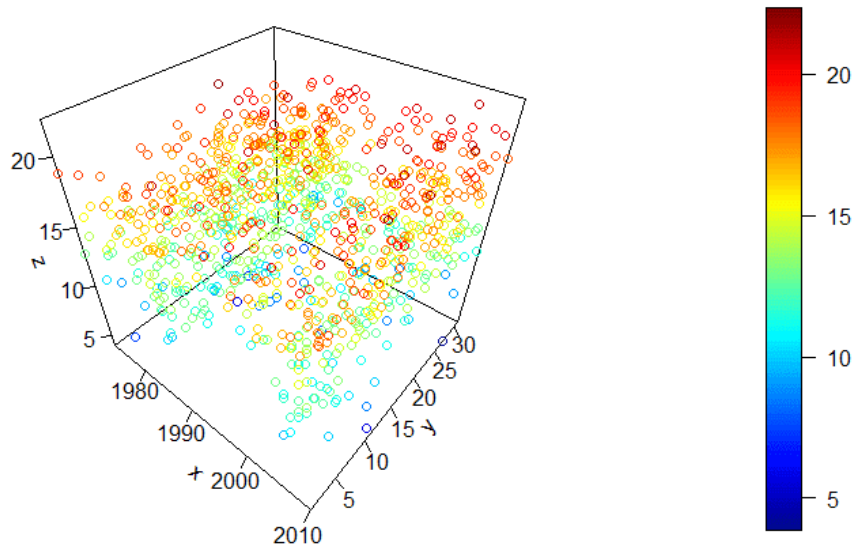
61. Easiness to focus on this visualization *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

General - R plot3D

R plot3D



62. How do you rate your level of commitment in this experiment? *

Mark only one oval.

	1	2	3	4	5	
Not engaged	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very engaged

63. How do you rate the overall view? *

Mark only one oval.

	1	2	3	4	5	
Horrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

64. Visualization's satisfaction level *

Mark only one oval.

	1	2	3	4	5	
No satisfaction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very satisfactory

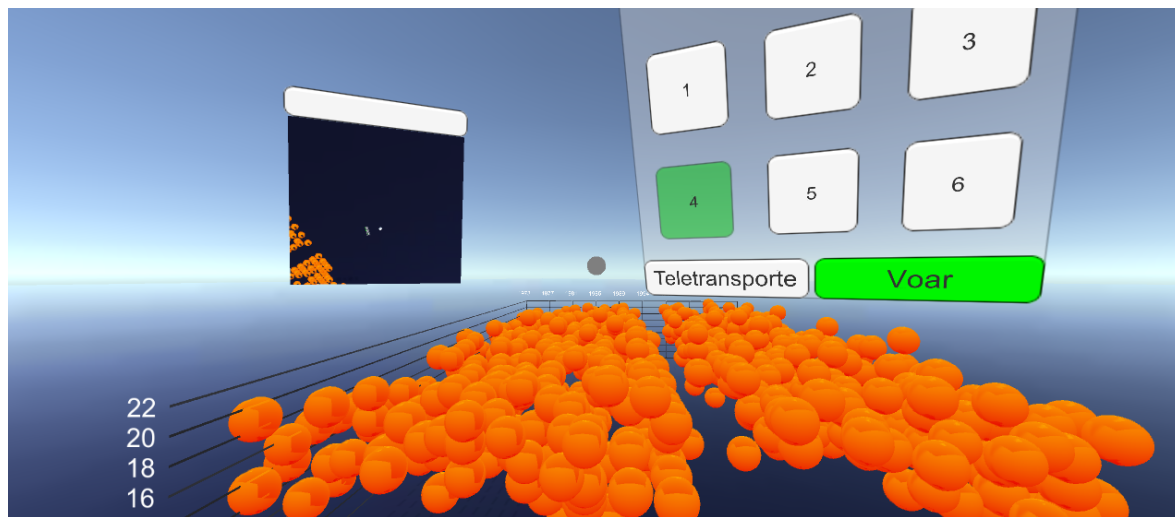
65. Easiness to focus on this visualization *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

General - Data-Room gráfico de bolhas

Data-Room gráfico de bolhas



66. How do you rate your level of commitment in this experiment? *

Mark only one oval.

	1	2	3	4	5	
Not engaged	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very engaged

67. How do you rate the overall view? *

Mark only one oval.

	1	2	3	4	5	
Horrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

68. Visualization's satisfaction level *

Mark only one oval.

	1	2	3	4	5	
No satisfaction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very satisfactory

69. Easiness to focus on this visualization *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

Conclusão


70. Ease of retaining the questions of this survey in memory *

Mark only one oval.

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

71. Would you like to have Data-Room on your mobile phone? **Mark only one oval.*☐ Yes☐ No**72. Comments or suggestions**

☐ Send me a copy of my responses.

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