

(1/14) Initial Survey

* Required

1. Email address *

2. Full Name *

3. Age *

4. Gender *

Mark only one oval.

☐ Male

☐ Female

5. Degree of literacy *

Mark only one oval.

☐ Basic

☐ Secondary

☐ Bachelor

☐ Master

☐ Other

6. Nationality *

7. Do you have experience visualizing information? *

Mark only one oval.

☐ Yes

☐ No

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

Mark only one oval.

☐ Yes

☐ No

(2/14) Temperature over the years

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

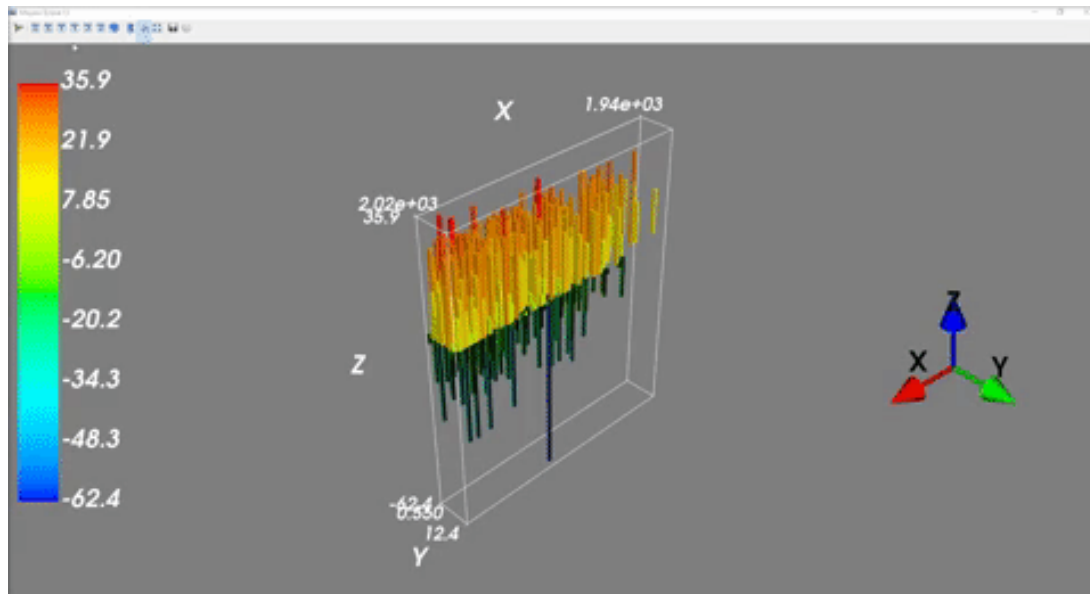
In this section the views have the following caption

x= years

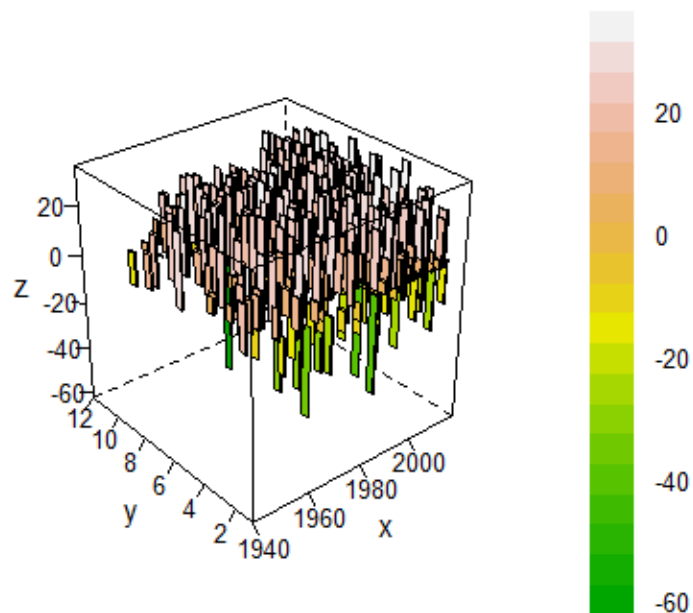
y= months

z= temperature (°C)

Python Mayavi barchart()



R latticeExtra



Data-Room bar chart

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

9. 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

10. What value did you identify? *

Mark only one oval.

- ☐ 35,94
- ☐ 43,28
- ☐ 43,33
- ☐ Other

11. 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

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

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

Mark only one oval.

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

14. 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

(3/14) 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.

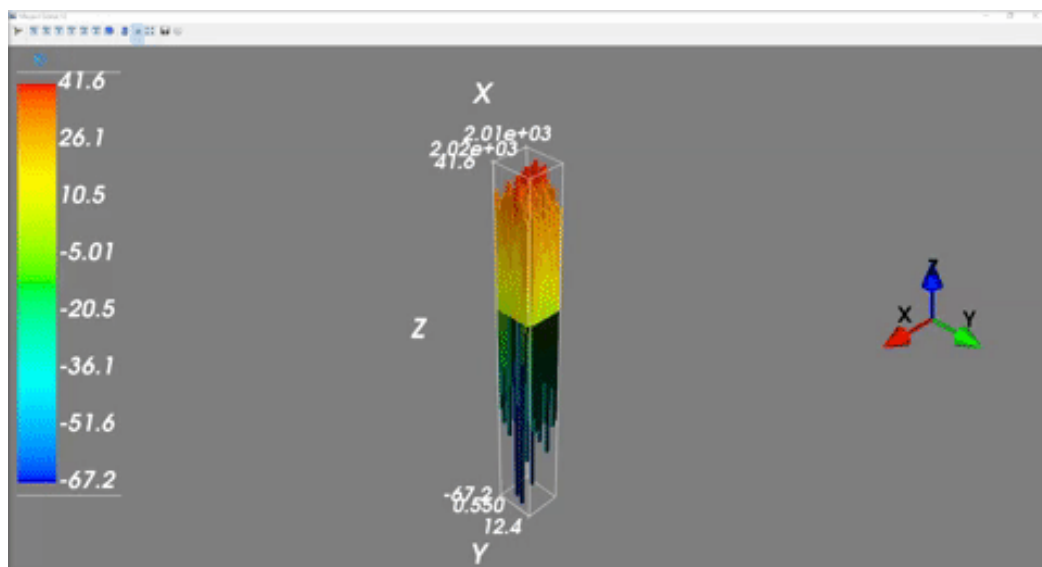
In this section the views have the following caption

x= years

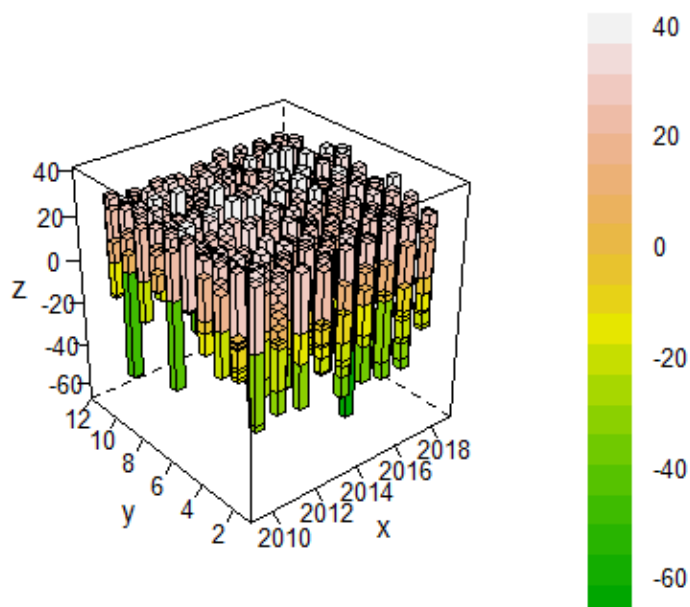
y= months

z= temperature (°C)

Python Mayavi barchart()



R latticeExtra



Data-Room bar chart

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

15. 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

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

- ☐ -81,50
- ☐ -77,83
- ☐ -67,17
- ☐ Other

17. 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

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

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

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

20. 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

(4/14) 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.

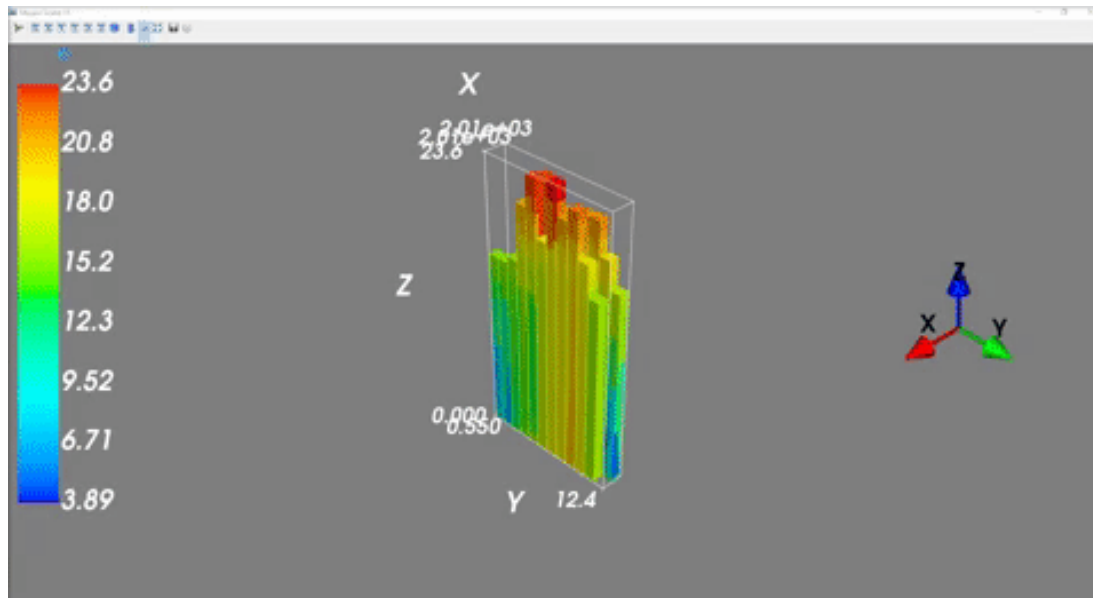
In this section the views have the following caption

x= years

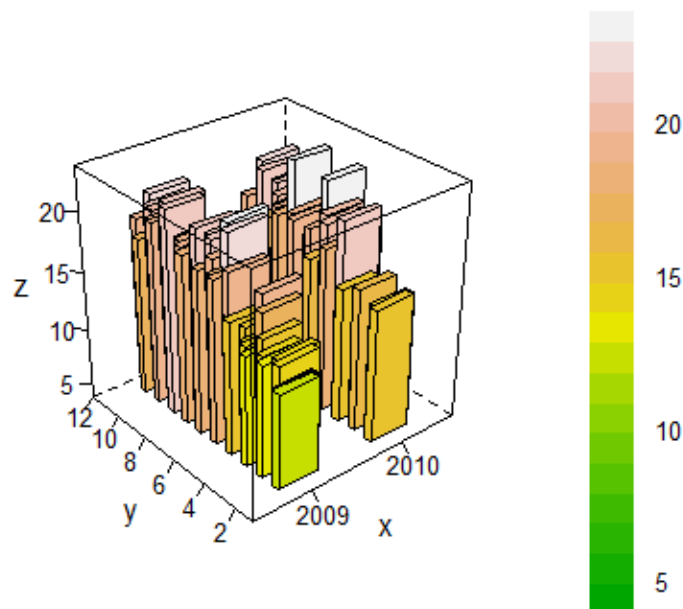
y= months

z= temperature (°C)

Python Mayavi barchart()



R latticeExtra



Data-Room bar chart

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

21. 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

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

- ☐ 2009
- ☐ 2010
- ☐ 2013
- ☐ Other

23. 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

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

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

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

26. 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

(5/14) Temperature over the years in Cabo Carvoeiro

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

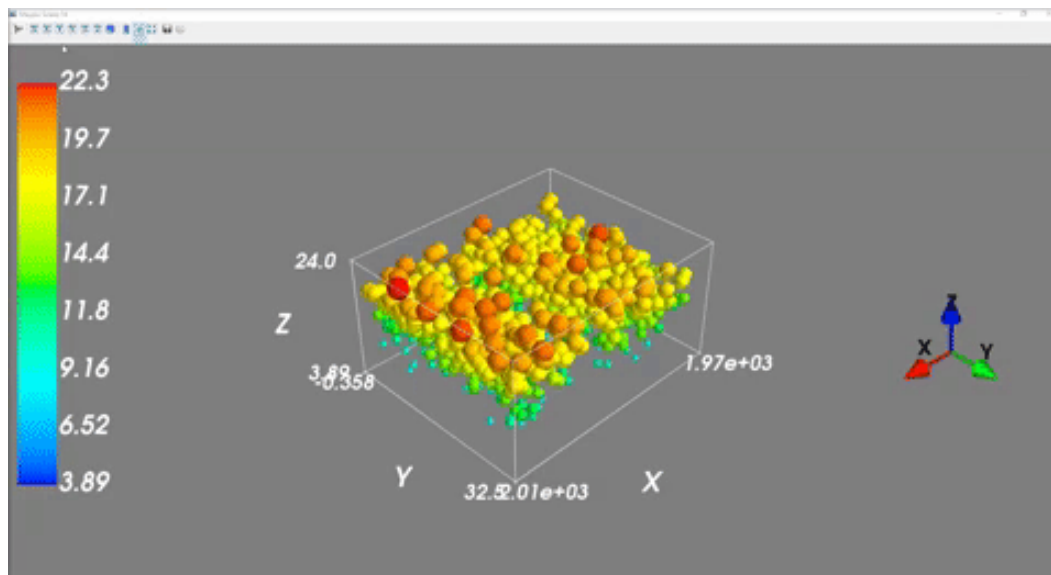
In this section the views have the following caption

x= years

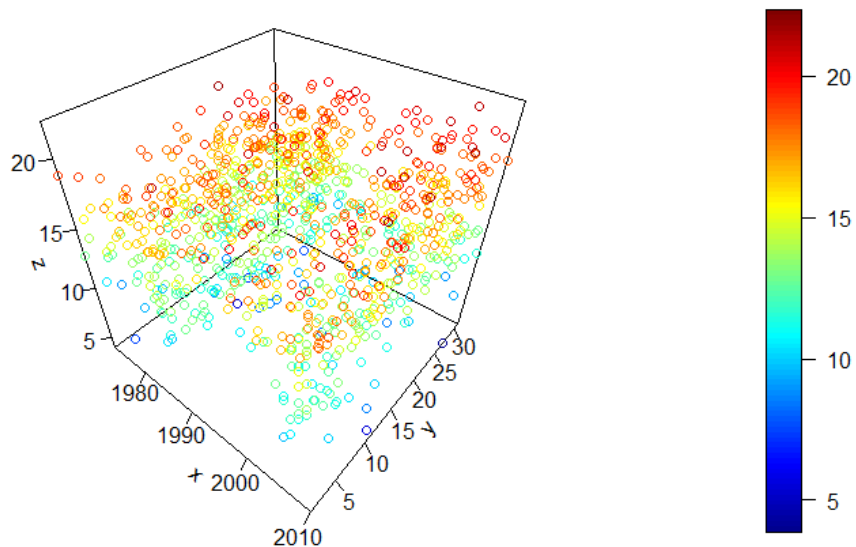
y= days

z= temperature (°C)

Python Mayavi points3d()



R plot3D



Data-Room bubble chart

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

27. 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

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

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

29. 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

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

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

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

32. 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

(6/14) 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.

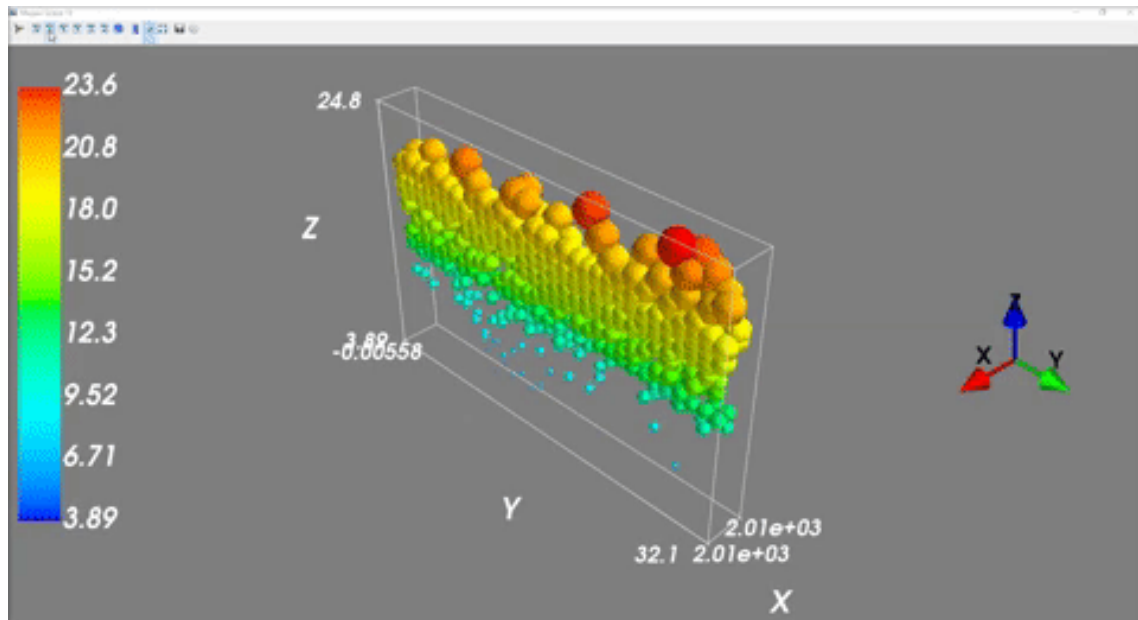
In this section the views have the following caption

x= years

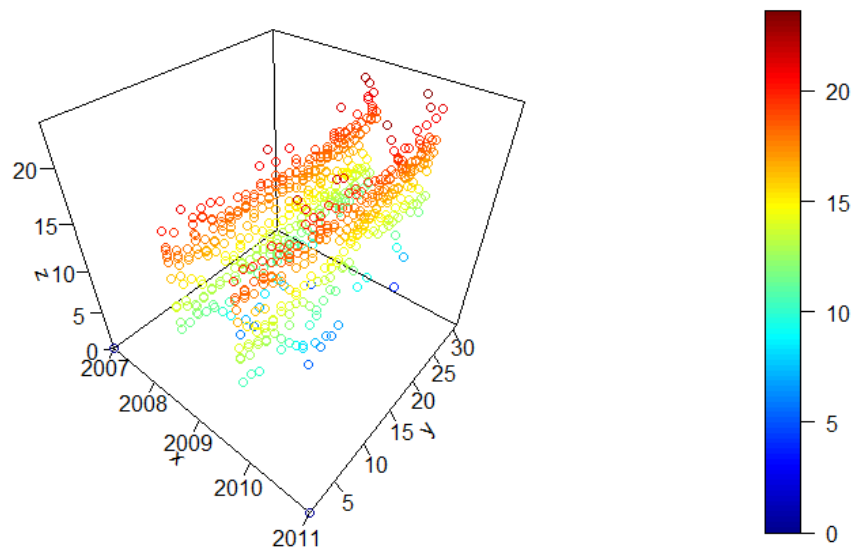
y= days

z= temperature (°C)

Python Mayavi points3d()



R plot3D



Data-Room bubble chart

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

33. 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

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

- ☐ 23,61
- ☐ 15,24
- ☐ 30,41
- ☐ Other

35. 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

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

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

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

38. 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

(7/14) 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.

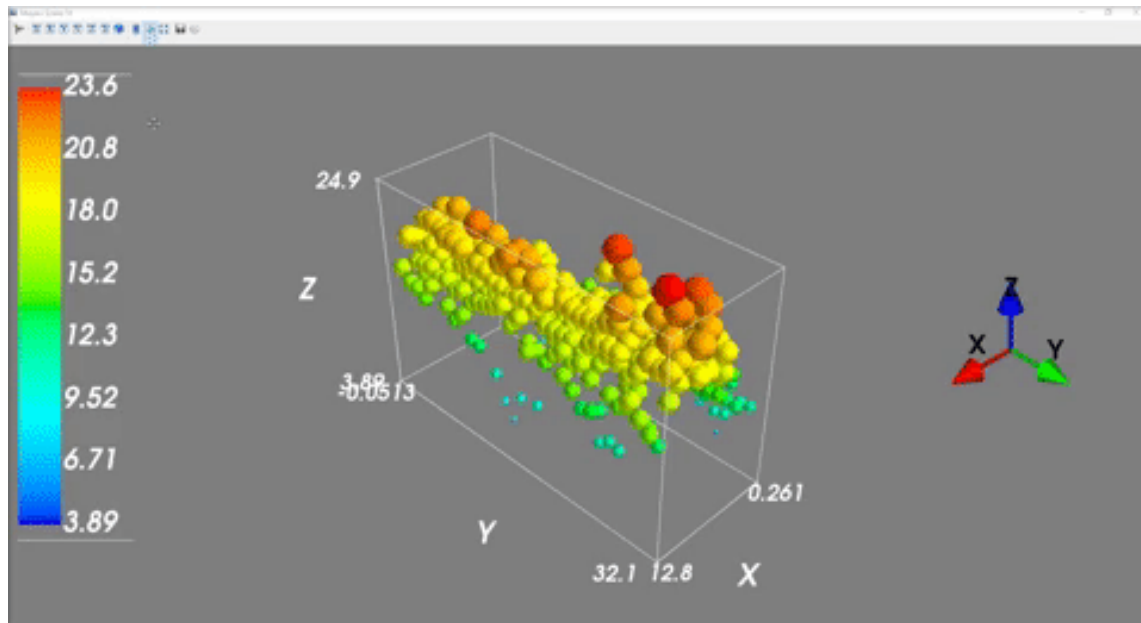
In this section the views have the following caption

x= months

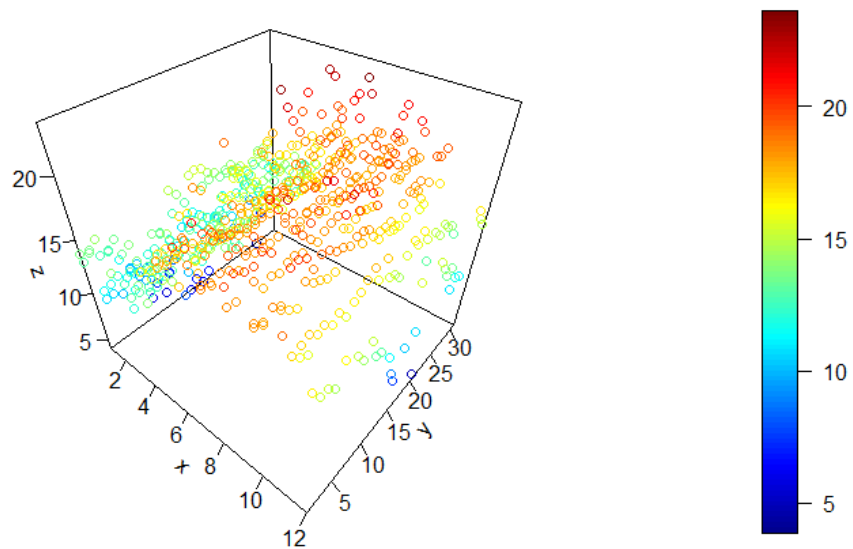
y= days

z= temperature (°C)

Python Mayavi points3d()



R plot3D



Data-Room bubble chart

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

39. 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

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

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

41. 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

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

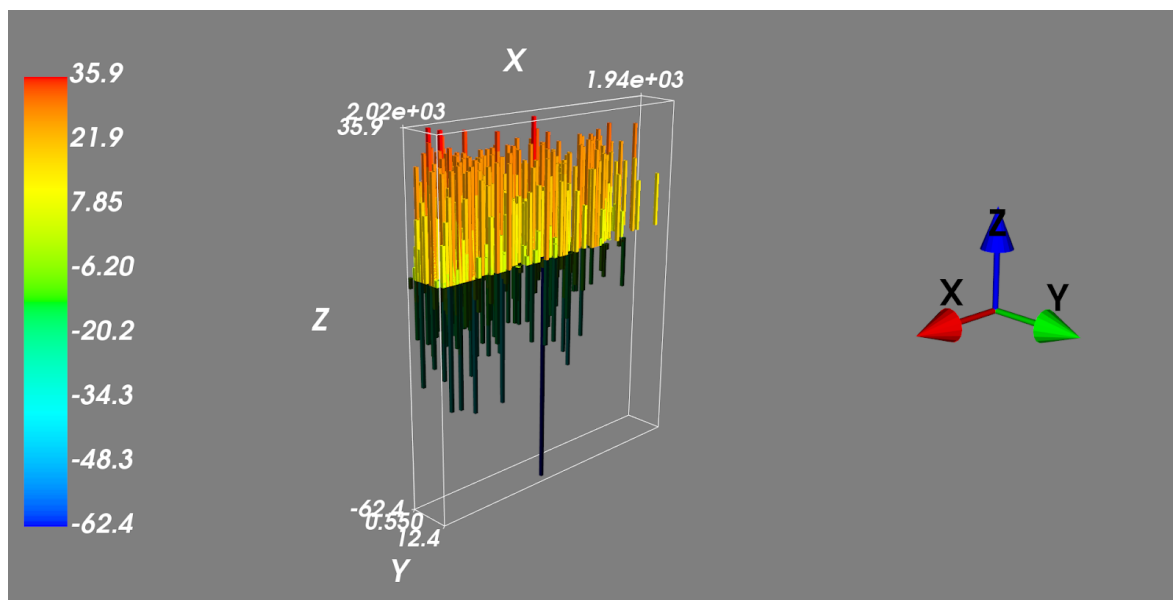
43. Which environment allows for easier interaction / exploration? **Mark only one oval.*

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

44. 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

(8/14) General - Python Mayavi barchart()**Python Mayavi barchart()**



45. 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

46. 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

47. 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

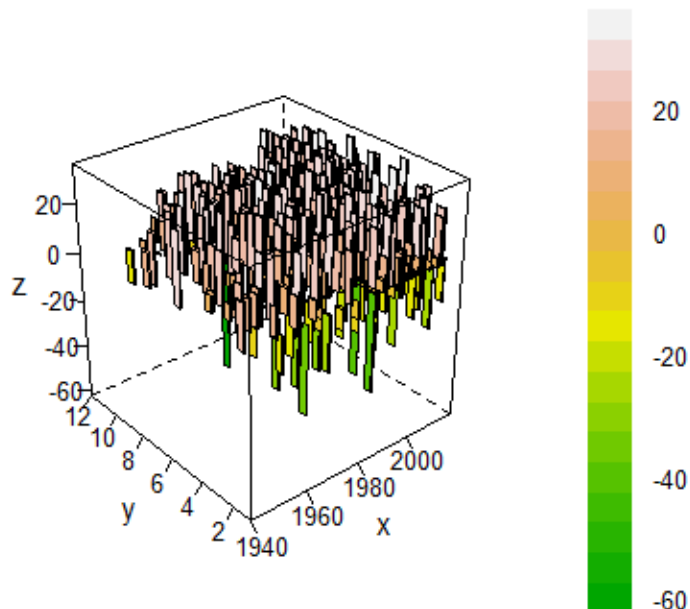
48. Easiness to focus on this visualization *

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

(9/14) General - R latticeExtra

R latticeExtra



49. 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

50. 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

51. 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

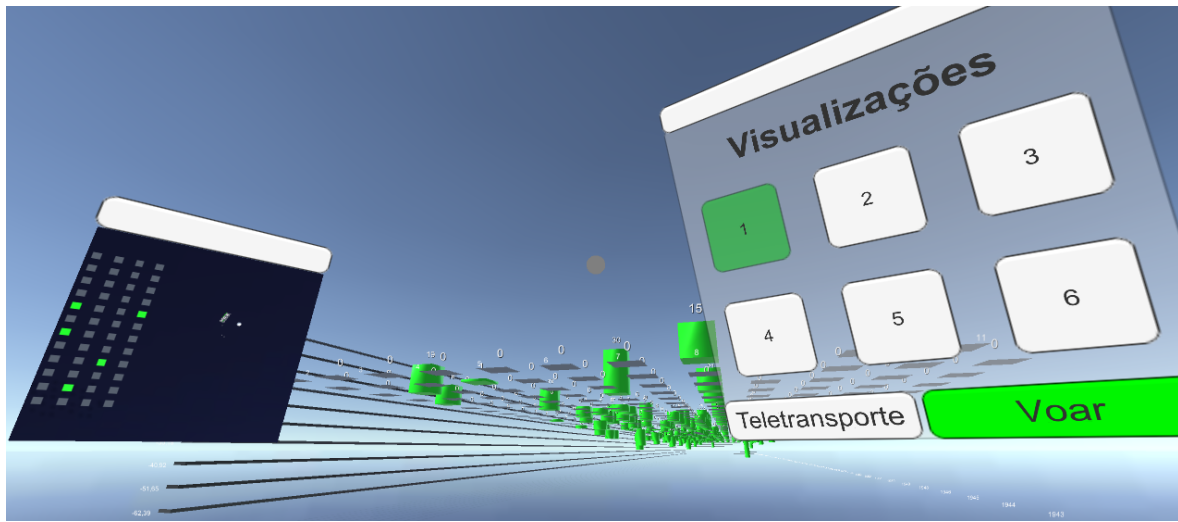
52. Easiness to focus on this visualization *

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

(10/14) General - Data-Room gráfico de barras

Data-Room gráfico de barras



53. 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

54. 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

55. 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

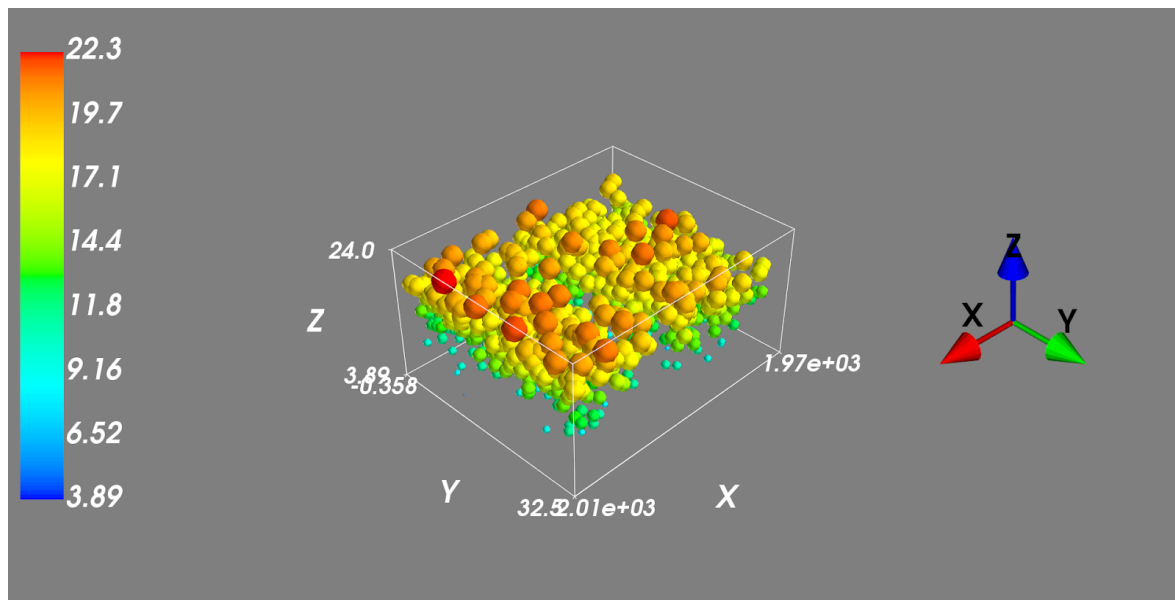
56. Easiness to focus on this visualization *

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

(11/14) General - Python Mayavi points3d()

Python Mayavi points3d()



57. 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

58. 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

59. 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

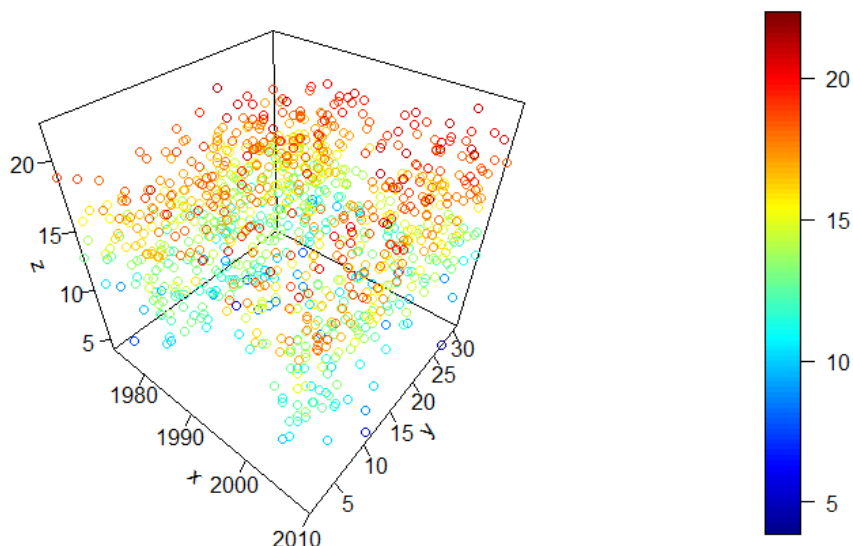
60. Easiness to focus on this visualization *

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

(12/14) General - R plot3D

R plot3D



61. 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

62. 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

63. 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

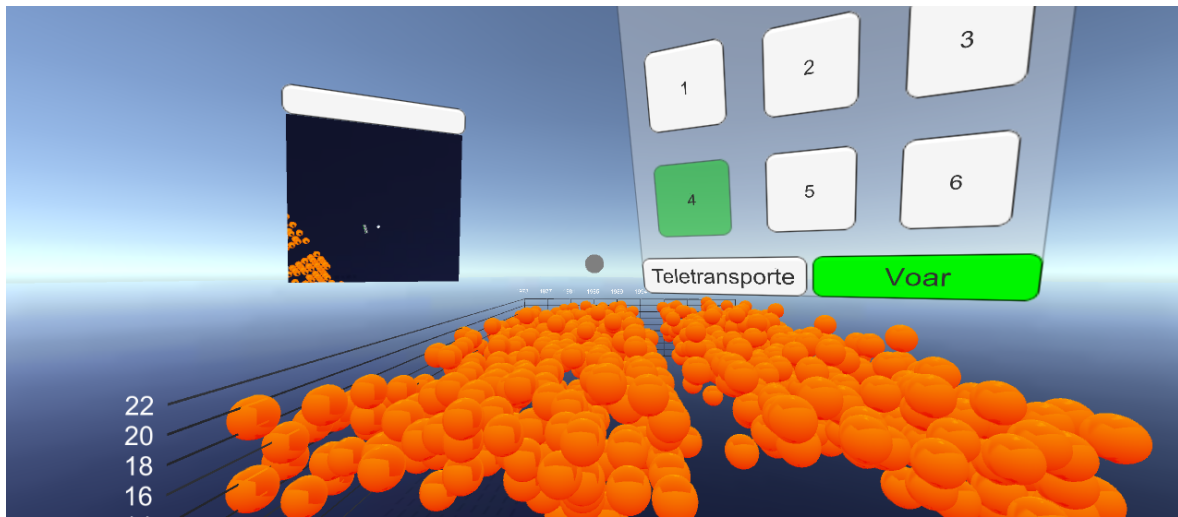
64. Easiness to focus on this visualization *

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

(13/14) General - Data-Room gráfico de bolhas

Data-Room gráfico de bolhas



65. 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

66. 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

67. 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

68. 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

(14/14) Conclusão

69. 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

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

72. 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.☐ Send me a copy of my responses.

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