Initial Survey * Required

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 No	1.					
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	2.					
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 * 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 Yes		Yes, I accept that the data I submit will be considered for dissertation purposes.				
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 Mark only one oval. Yes	3.	Full Name *				
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	4.	Age *				
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	5.					
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 Yes Yes						
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 Yes	6.	Mark only one oval. Basic Secondary				
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		Master				
Mark only one oval. Yes No No Are you experienced with mobile virtual immersive environments, virtual reality or augmented reality? * Mark only one oval. Yes	7.	Nationality *				
augmented reality? * Mark only one oval. Yes	8.	Mark only one oval. Yes				
Yes	9.	augmented reality? *				

Temperature over the years

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

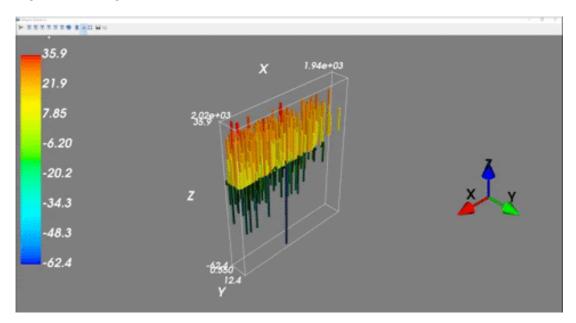
In this section the views have the following caption

x= years

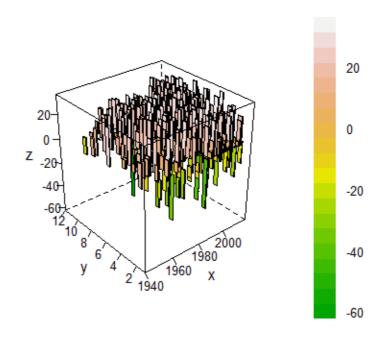
y= months

z= temperature (°C)

Python Mayavi barchart()



R latticeExtra



Data-Room bar chart

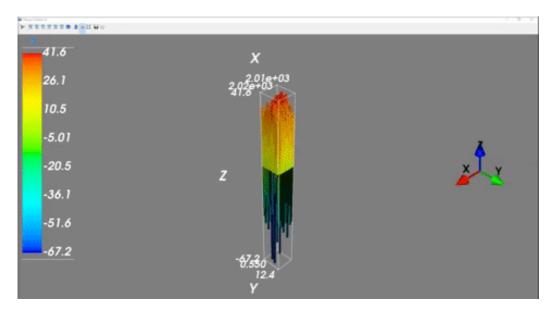
Go to the Data-Room application and click on menu button 1.

0. 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
1. What value did you identify? (rounded down to units) *
Mark only one oval.
35
43
34
Other
2. 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
3. Regarding the previous question, indicate the order of priorities (Example - ADB). *
4. Which environment allows for easier interaction / exploration? * Mark only one oval.
Python Mayavi barchart()
R latticeExtra
Data-Room bar chart
5. 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
emperature in the last 10 years palyze the relationship of years and / or months with temperatures, using data from the past 10

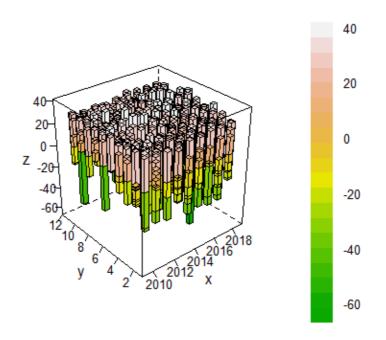
Analyze the relationship of years and / or months with temperatures, using data from the past 10 years, from stations around the world.

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()

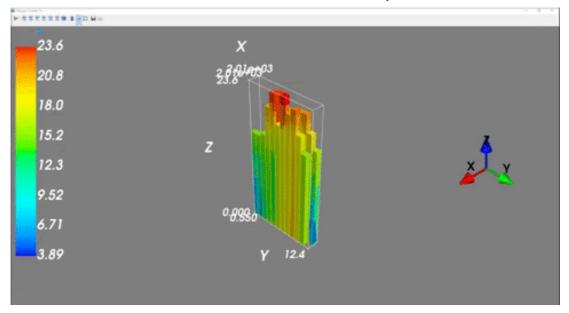
R latticeExtra

Data-Room bar chart

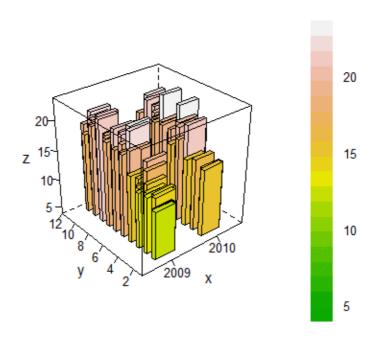
17. What value did you identify? (rounded down to units) * Mark only one oval.	
-81	
-61	
-67	
Other	
18. What do you consider relevant in the visualization? * Check all that apply.	
A. Axes for spatial dimensions (x, y and z)	
B. Color scale for temperature mapping	
C. Overview of the chart	
D. Immersive Visualization	
E. Zoom in and out	
F. Amount of data	
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	
Data-Room par chart	
Temperature in the last 10 years in Cabo Carvoeiro Analyze the relationship of years and / or months with temperatures, using data from the pas years, in Cabo Carvoeiro.	t 10

Python Mayavi barchart()

z= temperature (°C)



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()
--	--------	--------	------------

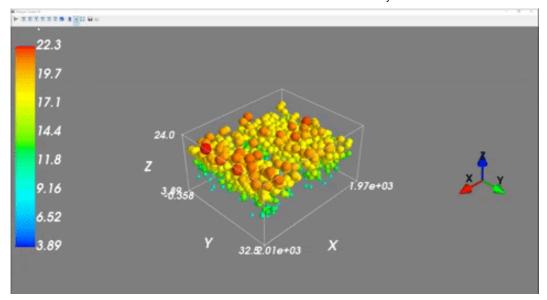
R latticeExtra

Data-Room bar chart

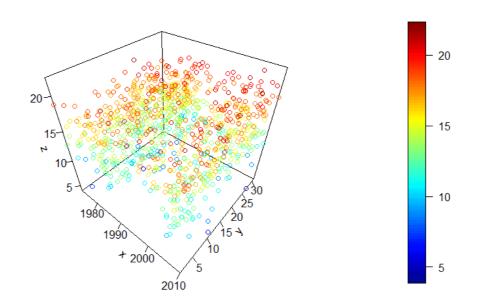
Initial Survey 29/12/2019

a. Jan 13
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
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)



R plot3D



Data-Room bubble chart

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

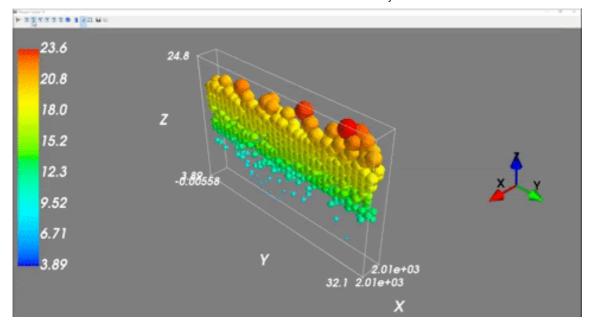
28. In which of the visual representations is it easier to identify temperature variation? * Mark only one oval.

	Python	Mayavi	points3D()
--	--------	--------	------------

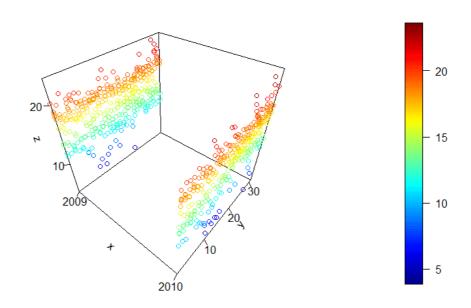
R plot3D

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
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



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.

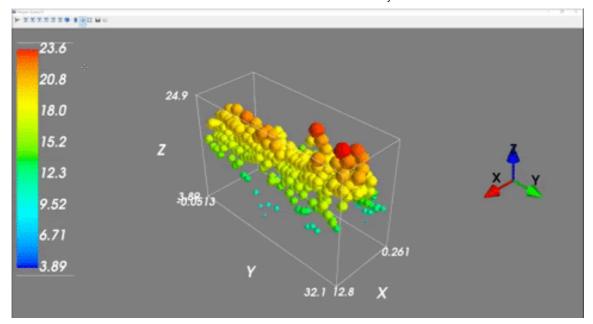
R plot3D

Data-Room bubble chart

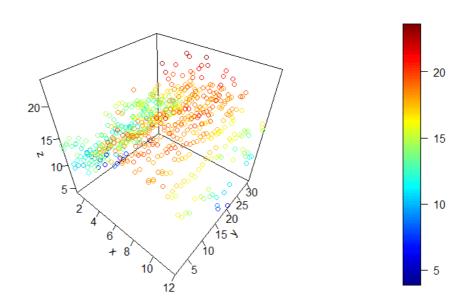
35. What value <i>Mark only of</i>	did you identify? (rounded down to units) * ne oval.
23	
<u></u>	
30	
Othe	er
36. What do yo	ou consider relevant in the visualization? * at apply.
A. Axe	es for spatial dimensions (x, y and z)
B. Cole	or scale for temperature mapping
C. Ove	erview of the chart
D. Imn	nersive Visualization
E. Zoo	m in and out
F. Amo	ount of data
38. Which envi <i>Mark only of</i>	ronment allows for easier interaction / exploration? * ne oval.
O Pyth	on Mayavi points3D()
R plo	ot3D
Data	-Room bubble chart
39. Which envi	ronment is most desirable to see on a mobile phone screen? * ne oval.
Pyth	on Mayavi points3D()
R plo	pt3D
O Data	-Room bubble chart
	re in the last 10 years in Cabo Carvoeiro tionship of months and / or days with temperatures, using data from the past 10 o Carvoeiro.
In this section the	e views have the following caption

In this section the views have the following caption x= months y= days

z= temperature (°C)



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.

)

R plot3D

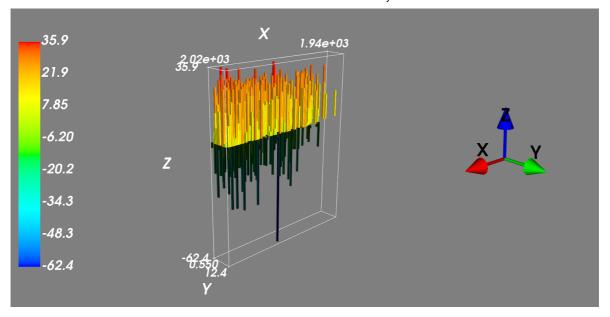
Data-Room bubble chart

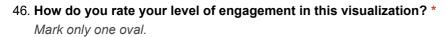
Initial Survey 29/12/2019

	ilitial Survey
	What month did you identify? * Mark only one oval.
	May
	July
	August
	October
	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
	Regarding the previous question, indicate the order of priorities (Example - ADB). *
	Which environment allows for easier interaction / exploration? * Mark only one oval.
	Python Mayavi points3D()
	R plot3D
	Data-Room bubble chart
	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
G۵	neral - Python Mayayi harchart()

General - Python Mayavi barchart()

Python Mayavi barchart()





	1	2	3	4	5	
Not engaged						Very engaged

47. How do you rate the overall visualization? *

Mark only one oval.

	1	2	3	4	5	
Horrible						Excellent

48. Visualization's satisfaction level *

Mark only one oval.

	1	2	3	4	5	
No satisfaction						Very satisfactory

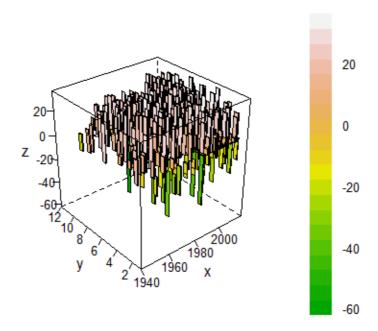
49. Easiness to focus on this visualization *

Mark only one oval.

	1	2	3	4	5	
Very difficult						Very easy

General - R latticeExtra

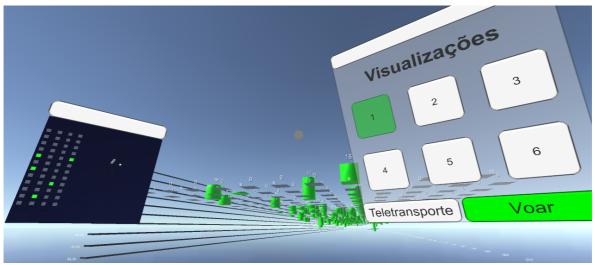
R latticeExtra



		1	2	3	4	5	
Not engag	ed (Very engaged
1. How do y Mark only			erall vie	w? *			
	1	2	3	4	5		
Horrible						Exc	ellent
2. Visualizat Mark only			ion leve	el *			
		1	2	3	4	5	
	ction						Very satisfacto
No satisfa							
3. Easiness Mark only			is visua	alization	ı *		

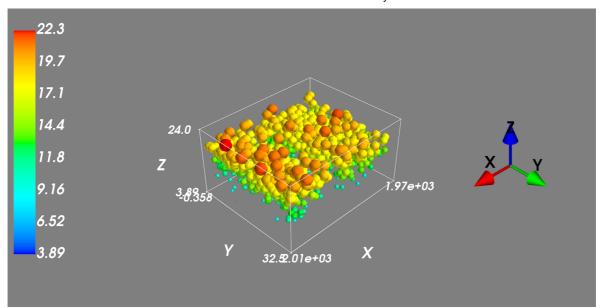
General - Data-Room gráfico de barras

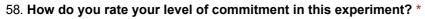
Data-Room gráfico de barras



	42,00
54.	How do you rate your level of commitment in this experiment? * Mark only one oval.
	1 2 3 4 5
	Not engaged Very engaged
55.	How do you rate the overall view? * Mark only one oval.
	1 2 3 4 5
	Horrible Excellent
56.	Visualization's satisfaction level * Mark only one oval.
	1 2 3 4 5
	No satisfaction Very satisfactory
57.	Easiness to focus on this visualization * Mark only one oval.
	1 2 3 4 5
	Very difficult Very easy

General - Python Mayavi points3d()





Mark only one oval.

	1	2	3	4	5	
Not engaged						Very engaged

59. How do you rate the overall view? *

Mark only one oval.

	1	2	3	4	5	
Horrible						Excellent

60. Visualization's satisfaction level *

Mark only one oval.

	1	2	3	4	5	
No satisfaction						Very satisfactory

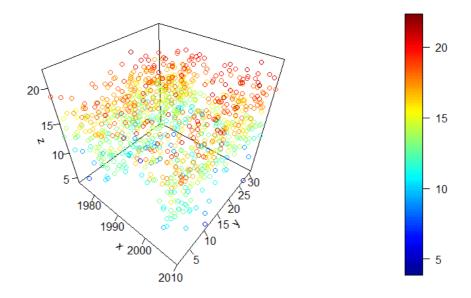
61. Easiness to focus on this visualization *

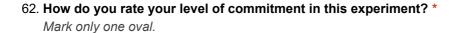
Mark only one oval.

	1	2	3	4	5	
Very difficult						Very easy

General - R plot3D

R plot3D







63. How do you rate the overall view? *

Mark only one oval.

	1	2	3	4	5	
Horrible						Excellent

64. Visualization's satisfaction level *

Mark only one oval.

	1	2	3	4	5	
No satisfaction						Very satisfactory

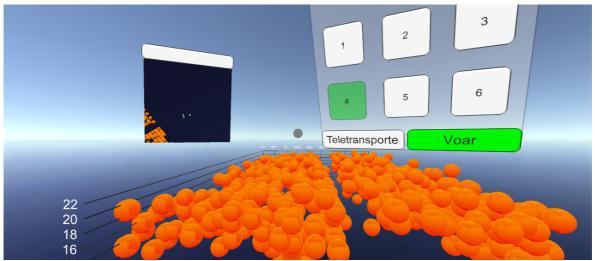
65. Easiness to focus on this visualization *

Mark only one oval.

	1	2	3	4	5	
Very difficult						Very easy

General - Data-Room gráfico de bolhas

Data-Room gráfico de bolhas



How do you I	_	level o	of comm	nitment	in this e	xperiment? *
	1	2	3	4	5	
Not engaged						Very engage
How do you i Mark only one	e oval.			4 - 5	-	
Horrible						cellent
Visualization Mark only one		ction l	evel *			
Wark Only Offe	1	2	3	4	5	
No satisfactio		2	3	4	5) Very satisfa
No satisfactio	ocus on)			5) Very satisfa
No satisfactio	ocus on)			5) Very satisfa
No satisfactio	ocus on	this vis	sualizat	ion *		Very satisfa
No satisfactio Easiness to f Mark only one Very difficult	focus on a oval.	this vis	sualizat 3	ion *	5	Very easy
No satisfaction Easiness to f Mark only one Very difficult Onclusão Ease of retain	focus on a oval.	this vis	sualizat 3	ion *	5	Very easy

	you like to have Inly one oval.)ata-Room on y	our mobile pho	ne? *	
	Yes				
	No				
72. Comm	ents or suggestio	ns			
Send me	e a copy of my resp	onses.			
Powered by Google	Forms				