**Comments:**

For your version 1, implement the sensory parameter survey. I suggest using plot-likert and Streamlit for this (see example files and my video). The sentiment analysis should be simple there are many example on the web. I'm a bit confused/concerned about the Viz part. If its non-standard "artistic" it's unlikely to be of use in a standard analysis way where typical plots are better, and in fact plot-likert is great for that. I guess you could add some summary starts that you make using pandas. An Artistic plot on the other hand could be something that adds to your gallery as art piece that maybe get updated over time. Or you just loop over each participants data. One caveat, I don't know much about p5.js but I know somebody who might be helpful if needed.

Chris Harding, Jun 6 at 5pm

BTW the Viz part (and maybe the sentiment analysis) would be your version 2. You could also do a word cloud from your comments

Chris Harding, Jun 6 at 5:02pm

Please see attached files.

[2024-06-06 17-03-25.mp4](https://canvas.iastate.edu/courses/109604/assignments/2267062/submissions/156338?comment_id=8036940&download=27242157)

[Likert\_viz.ipynb](https://canvas.iastate.edu/courses/109604/assignments/2267062/submissions/156338?comment_id=8036940&download=27242158)

[Likert\_streamlit.py](https://canvas.iastate.edu/courses/109604/assignments/2267062/submissions/156338?comment_id=8036940&download=27242159)

[Likert\_streamlit2.py](https://canvas.iastate.edu/courses/109604/assignments/2267062/submissions/156338?comment_id=8036940&download=27242160)

**Comments:**

Summary of our conversation: - option 3 - Create a web app that allows input of sensory parameters via sliders (i.e. resulting in a numeric value from say 1 to 10), possibly with an optional text input, which is then run through a sentiment analysis to get a numeric value - to get the input you should first just use a laptop (could be a simple tkInter form where the user types in their name, inputs their values and hits Done, where the values are then saved into a csv file. Or it could be a simple webapp with a html form. Later this could be run on pythonamywhere so users could connect to that on their mobile devices. - think about ways to create some sort of artistic interpretation of these types of values (I assume you want to aggregate/average) values from all participants, or you could just pull one participant randomly ...) - I did not find a truly free API for AI images so I suggest generating graphics with p5.js. As per copilot there are 3 ways to run a p5.js script and either show it in the browser or within a Flask template or just have the java script save the graphics into a file and then read the file into python (see attached pdf) - To present the graphics you could scan in a floor plan, show that as a background image in Flask and then use CSS to position the smaller images at the correct pixel coordinates (I had to look this up but it seems pretty simple with just straight HTML/CSS)

[How\_to\_run\_p5.js\_from\_python.pdf](https://canvas.iastate.edu/courses/109604/assignments/2267040/submissions/156338?comment_id=8029661&download=27203329)