

# 1 Supplement Document

## 1.1 Appendix

### A Poster Image with Watching Eyes and Quote



**Fig. A1** Posters used in the study featured an image of watching eyes and a motivational quote. Displayed in the auditorium during poster intervention days.

## B Auditorium Setup Without and With Posters



**Fig. B1** Auditorium setup without any posters. (*Baseline environment before intervention.*)



**Fig. B2** Auditorium setup with watching eye posters installed. (*Environment during poster intervention phase.*)

## C Online Sound Meter Pressure Tool

The screenshot shows a web-based interface for an online decibel meter. At the top, the title "Online Decibel Meter" is displayed in blue. Below the title, there are two input fields: "Reading Interval (in seconds):" with a value of 15, and "Duration (in minutes):" with a value of 30. A link "Set Monitoring Duration[:]" is positioned between the two input fields. Below the input fields, there are three buttons: "Start", "Stop", and "Export CSV". Under the buttons, the text "Current dB Level: 67.27" is shown on the left, and "Max: 72.29" is shown on the right. A horizontal progress bar is located below the text, with a yellow segment representing the current level and a grey segment representing the remaining range. At the bottom, the text "dB Readings" is displayed, followed by a vertical line.

Online Decibel Meter

Reading Interval (in seconds):  
15

[Set Monitoring Duration\[:\]](#)

Duration (in minutes):  
30

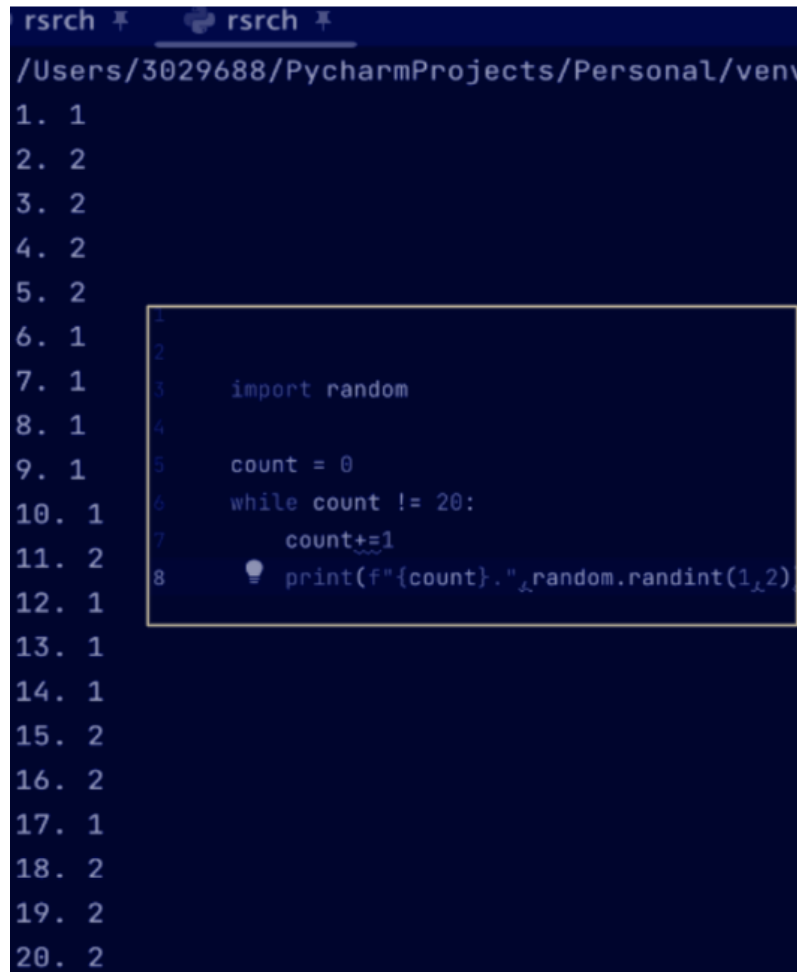
Start Stop Export CSV

Current dB Level: 67.27 Max: 72.29

dB Readings /

**Fig. C1** Screenshot of the online sound meter pressure tool used to measure noise levels in decibels (dB).

## D Python Randomizer Screenshot



```
rsrch *  rsrch *  
/Users/3029688/PycharmProjects/Personal/venv  
1. 1  
2. 2  
3. 2  
4. 2  
5. 2  
6. 1  
7. 1  
8. 1  
9. 1  
10. 1  
11. 2  
12. 1  
13. 1  
14. 1  
15. 2  
16. 2  
17. 1  
18. 2  
19. 2  
20. 2  
  
1  
2  
3     import random  
4  
5     count = 0  
6     while count != 20:  
7         count+=1  
8         print(f"{count}. {random.randint(1,2)}")
```

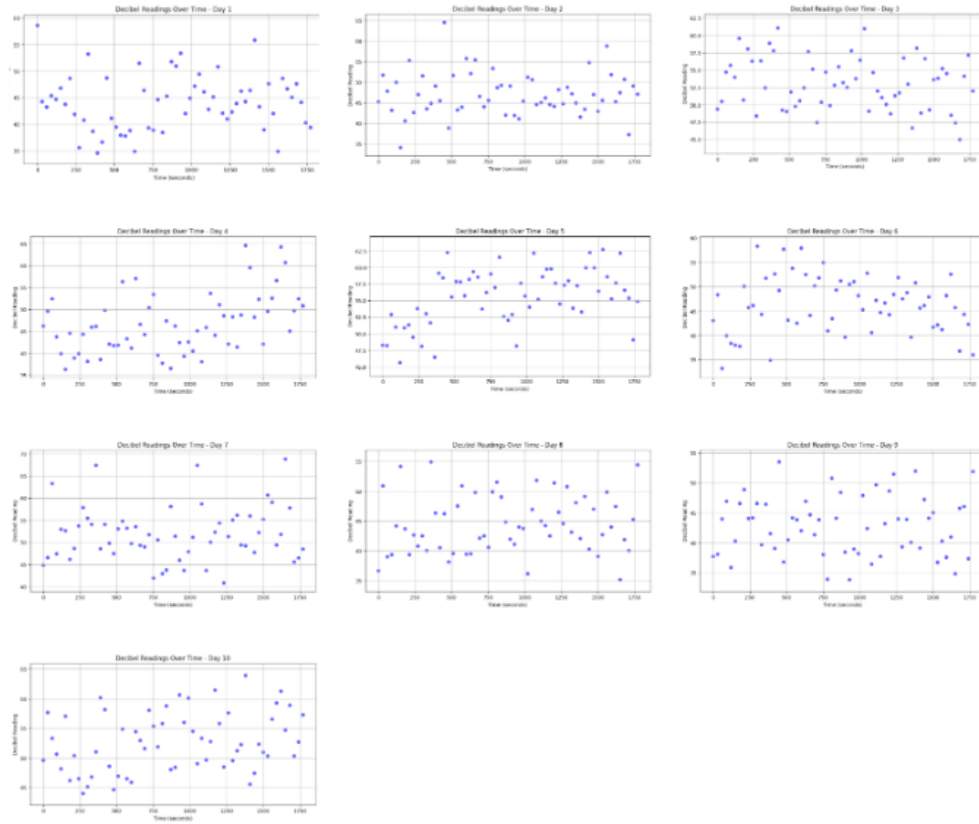
**Fig. D1** Screenshot of Python code used to assign control and poster days randomly. (*Used to ensure unbiased scheduling of observation days.*)

## E Codebook Planning Calendar Example

JANUARY							2025						
SUN	MON	TUE	WED	THU	FRI	SAT							
			1	<b>1</b> Control Day 1	<b>2</b> Poster Day 1	4							
5	<b>2</b> Poster Day 2	X	<b>2</b> Poster Day 3	<b>1</b> Control Day 2	<b>1</b> Control Day 3	11							
12	<b>1</b> Control Day 4	<b>1</b> Control Day 5	<b>1</b> Control Day 6	<b>2</b> Poster Day 4	X	18							
19	MLK day off	<b>1</b> Control Day 7	<b>1</b> Control Day 8	<b>2</b> Poster Day 5	<b>2</b> Poster Day 6	25							
26	<b>1</b> Control Day 9	<b>2</b> Poster Day 7	<b>2</b> Poster Day 8	<b>2</b> Poster Day 9	31								

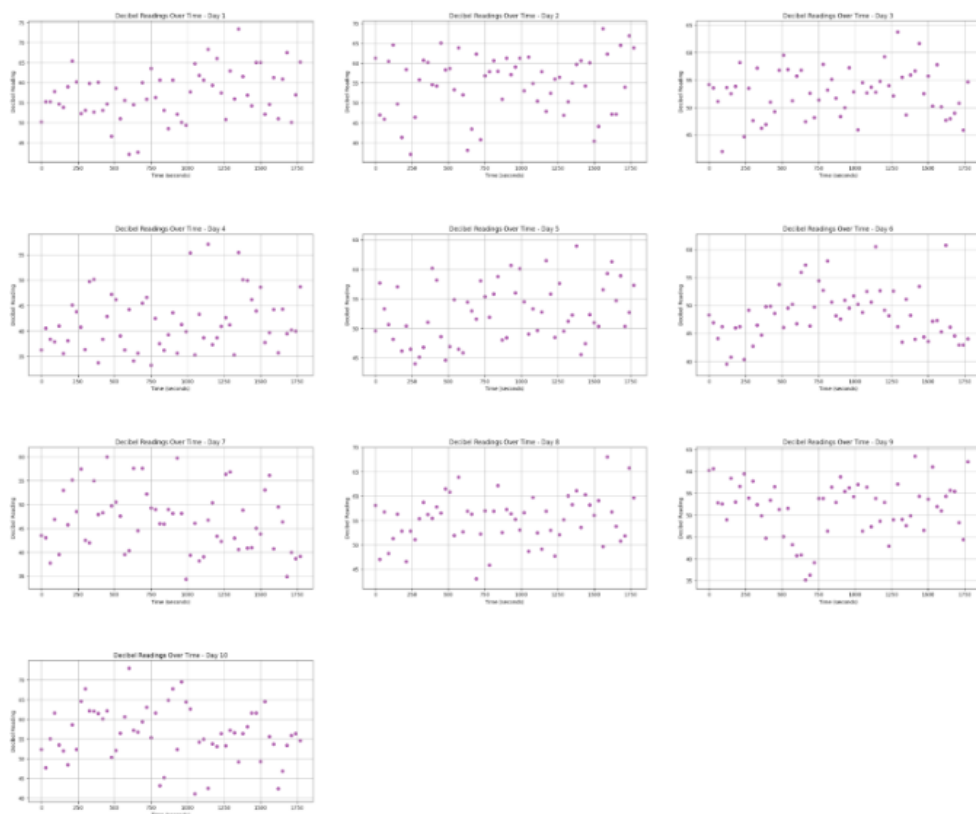
**Fig. E1** Canva calendar used as an example for planning and organizing data collection days. (*Visual breakdown for systematic data collection.*)

## F Scatterplots: Control Group (10 Days)



**Fig. F1** Scatterplots displaying daily noise levels during control days without posters. (Each scatterplot represents one day of control data, Figures F1–F10.)

## G Scatterplots: Poster Group (10 Days)



**Fig. G1** Scatterplots displaying daily noise levels during poster intervention days. (Each scatterplot represents one day of poster data, Figures G1–G10.)

## H Trial Run Base Code Example

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import matplotlib

from google.colab import drive
drive.mount('content.drive')

print(f"matplotlib version: {matplotlib.__version__}")

Drive already mounted at content.drive; to attempt to forcibly remount, call drive.mount("content.drive", force_remount=True).
matplotlib version: 3.10.0

df = pd.read_csv("/content/content.drive/MyDrive/AP RESEARCH DATA/empty
auditorium.csv")

# Drop unnecessary columns and rename for clarity
df = df.drop(columns=['S.N'])
df.columns = ['Time (15 sec)', 'Decibel Reading']

# Select only rows 20 to 80
df_selected = df.iloc[20:80].reset_index(drop=True)

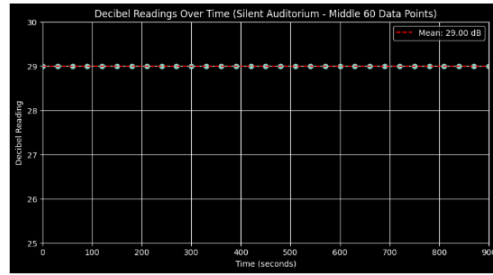
# Convert time intervals for selected data
df_selected['Time (15 sec)'] = np.arange(0, len(df_selected) * 30, 30)

# Plotting Decibel Readings Over Time (Only Middle 60 Rows)
plt.figure(figsize=(10, 5))
plt.plot(df_selected['Time (15 sec)'], df_selected['Decibel Reading'],
marker='o', linestyle='--')
plt.style.use("dark_background")
plt.title('Decibel Readings Over Time (Silent Auditorium - Middle 60 Data
Points)')
plt.xlabel('Time (seconds)')
plt.ylabel('Decibel Reading')
plt.ylim(25, 30)
plt.xlim(0, 900)
plt.axhline(mean_decibel, color='red', linestyle='--', label=f'Mean:
(mean_decibel:.2f) dB')
plt.legend()
plt.grid(True)
plt.show()

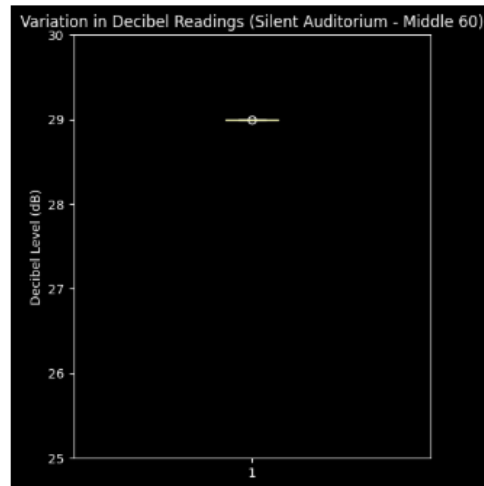
# Box Plot for Variation
plt.figure(figsize=(5, 6))
plt.boxplot(df_selected['Decibel Reading'], vert=True, patch_artist=True)
plt.title("Variation in Decibel Readings (Silent Auditorium - Middle 60)")
plt.ylabel("Decibel Level (dB)")
plt.ylim(25, 30)
plt.show()

Mean Decibel: 29.00 dB
Standard Deviation: 0.00 dB
Min Decibel: 29.00 dB
Max Decibel: 29.00 dB
```

**Fig. H1** Screenshot of base machine learning code used during the trial run. *(Trial ensured code accuracy before running full dataset analyses.)*



**Fig. H2** Scatterplot obtained through the trial run.



**Fig. H3** Box plot obtained through the trial run.

## I Paper Airplane Created During Experiment

Showcase of intervention: A paper airplane was created on the first day of the experiment.



**Fig. I1** Visual metaphor representing the subconscious influence of the environmental cues. *Refer to Figure 1, exit near the stairs to the right.*

## J Codebook Used for Qualitative Reading

Screenshot of the codebook used for qualitative reading.

*Recorded in the calendar pages of a planner for three months.*

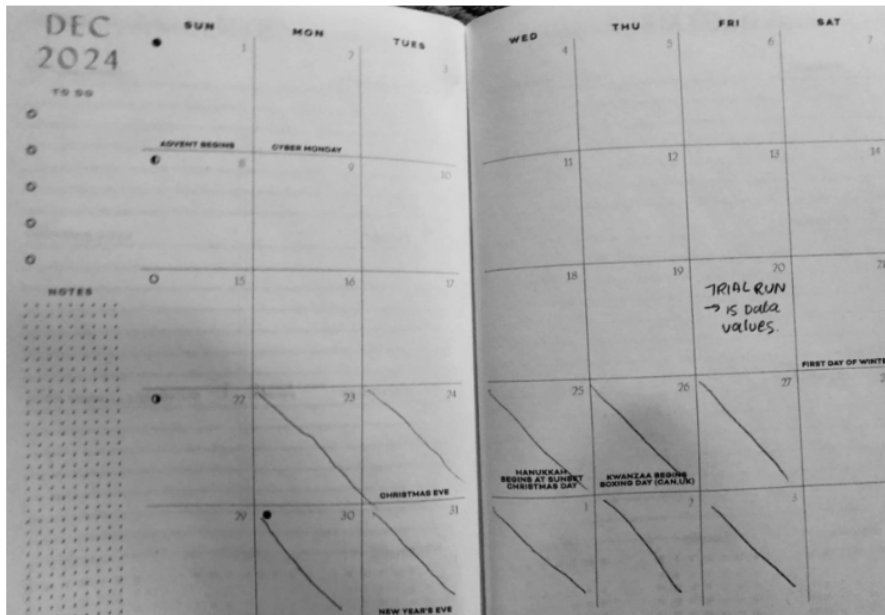
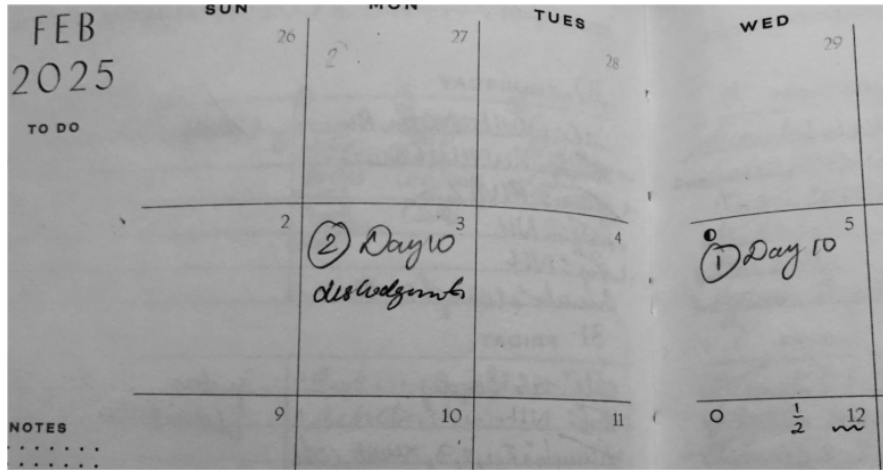


Fig. J1 December 2024 planner pages showing initial entries for codebook notes.



Fig. J2 January 2025 planner pages with compliance-to-stimulus annotations.



**Fig. J3** February 2025 planner pages continuing qualitative coding.

## K 2-Way ANOVA Test Results

Data table from 2-way ANOVA test results.

**Table 1** ANOVA results for Group, Day, and Group  $\times$  Day interaction.

	sum_sq	df	F	PR(>F)
C(Group)	2304.391038	1.0	75.478850	1.212470e-17
C(Day)	8602.589543	9.0	31.308034	1.896086e-49
C(Group):C(Day)	14970.602521	9.0	54.483609	5.430873e-83
Residual	36025.739816	1180.0	NaN	NaN