

Reaction Time - Sight vs. Sound



Miss School, Miss Out!

Reaction Time - Sight vs. Sound

Question: Does sight or hearing provide faster reaction times?

Hypothesis:

Procedure: follow instructions

Observations/Data:

Analysis: Graph

Conclusion:

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| Personal Data | | |
|------------------|--------------------------|---------|
| Trial | Distance Ruler Falls (m) | |
| | Sight | Hearing |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| Average Distance | | |
| Reaction Time | | |

$$t = \sqrt{\frac{2d}{a}}$$

d = distance (m)

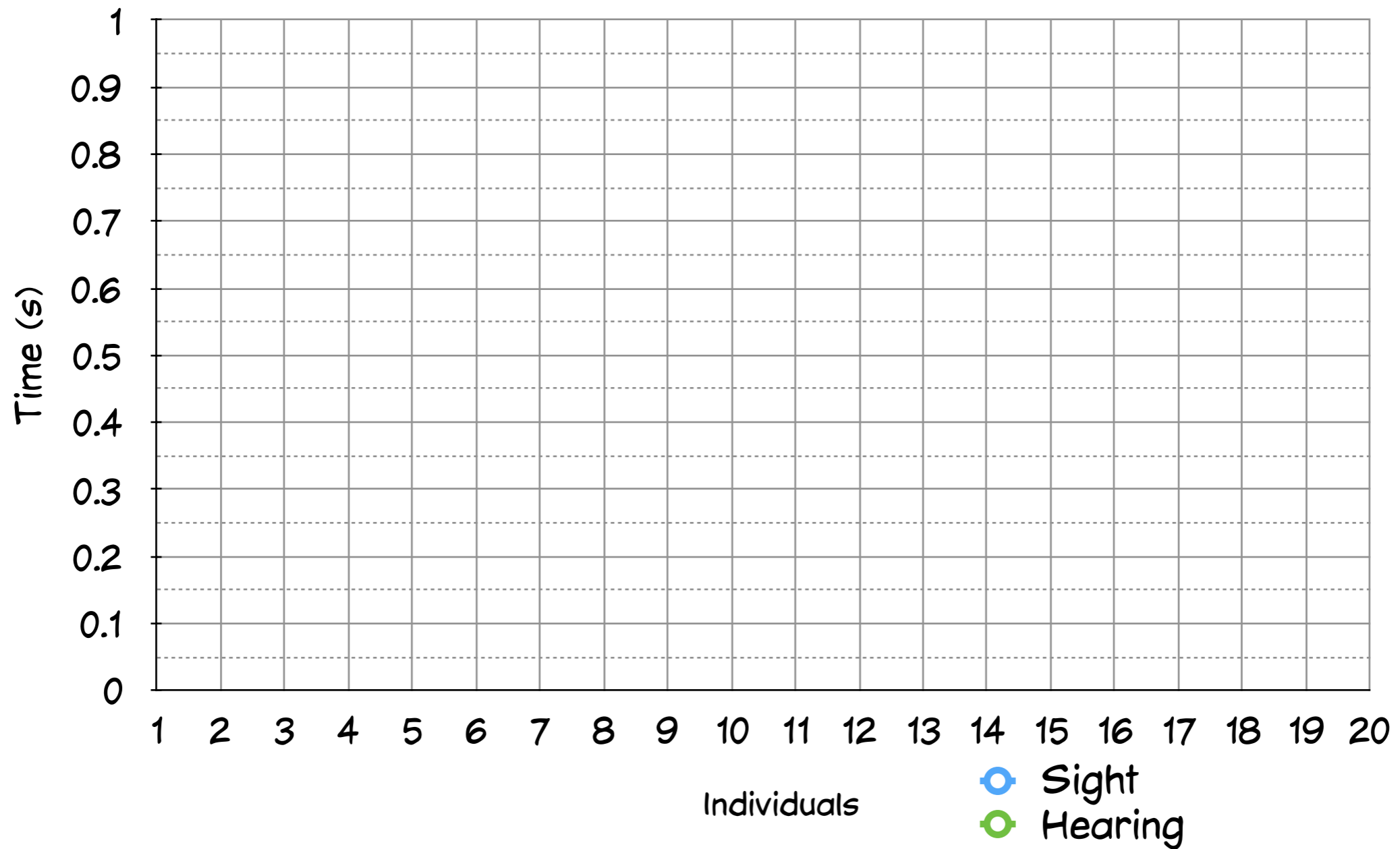
a = acceleration (9.8 m/s²)

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| Class Data | | |
|------------|----------|---------|
| Trial | Time (s) | |
| | Sight | Hearing |
| 1 | 0.20 | 0.26 |
| 2 | 0.22 | 0.36 |
| 3 | 0.16 | 0.25 |
| 4 | 0.15 | 0.18 |
| 5 | 0.19 | 0.21 |
| 6 | 0.19 | 0.13 |
| 7 | 0.19 | 0.20 |
| 8 | 0.22 | 0.24 |
| 9 | 0.15 | 0.16 |
| 10 | 0.22 | 0.22 |
| 11 | 0.15 | 0.18 |
| 12 | 0.16 | 0.18 |
| 13 | 0.19 | 0.24 |
| 14 | 0.22 | 0.65 |
| 15 | 0.20 | 0.26 |
| 16 | 0.19 | 0.16 |
| 17 | 0.30 | 0.21 |
| 18 | 0.21 | 0.25 |
| 19 | 0.31 | 0.48 |
| 20 | 0.22 | 0.32 |
| Average | 0.20 | 0.26 |

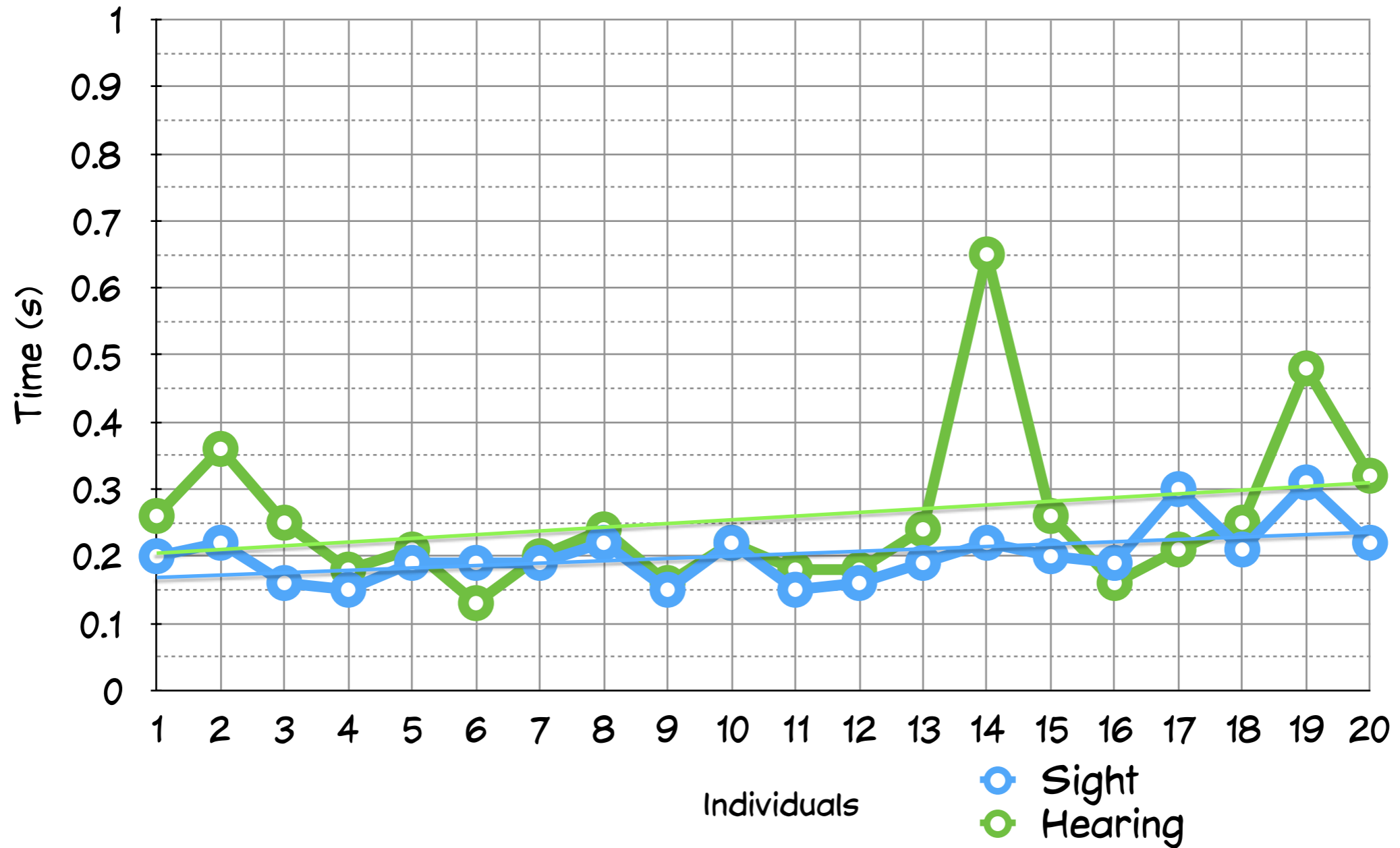
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Reaction Time Sight vs. Hearing



***Overall average sight
0.20***

***Overall average sound
0.26***

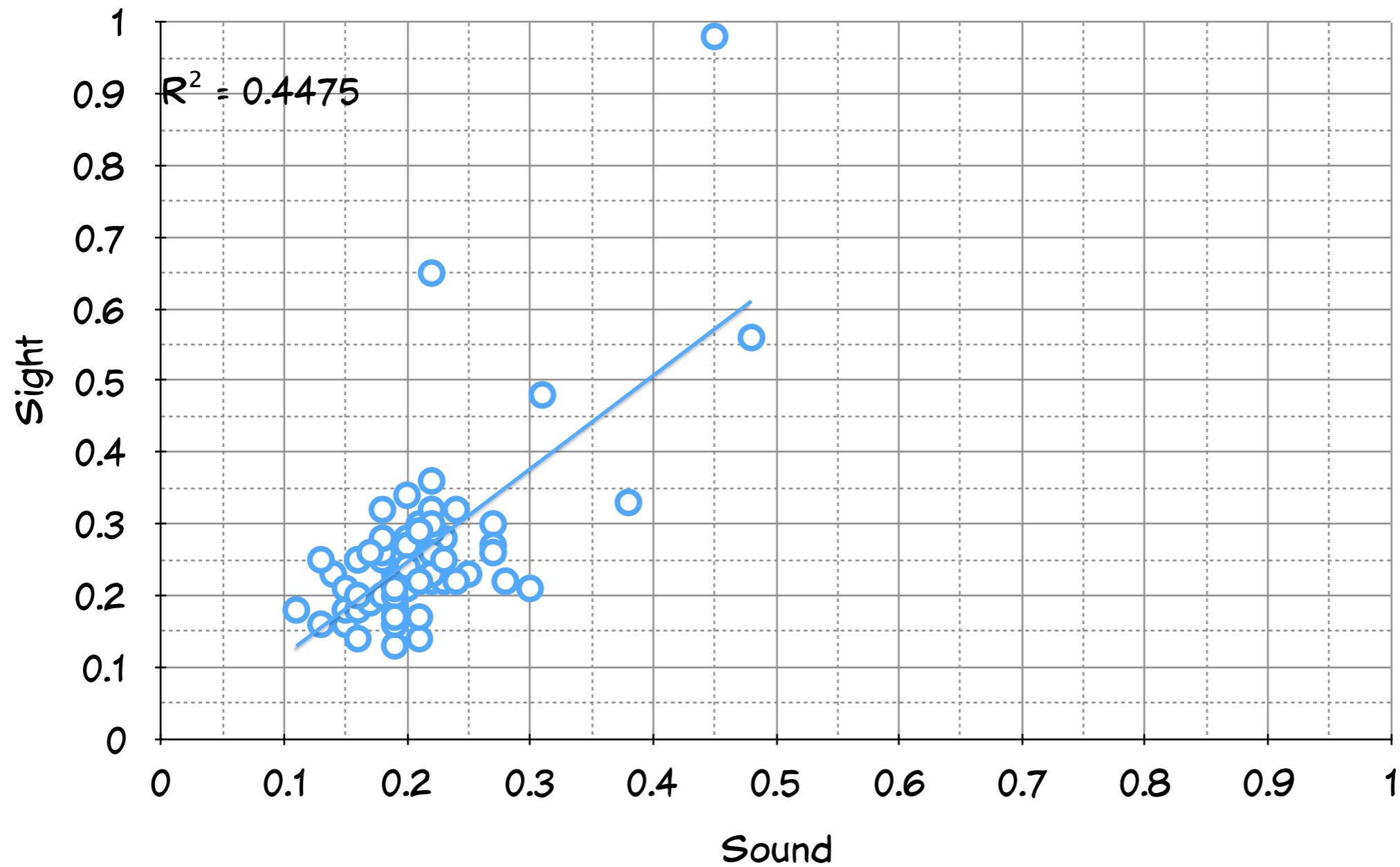
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R = 0.079 (last year)

Correlation Graph

R = 0.669

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| | Sight | Sound |
|------------------|-------|-------|
| Overall Average: | 0.21 | 0.26 |

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