

# GPT-4 Facial Emotion Analysis

## Summary of Hypothesis Tests

H1 - One-sample t-test vs human average

Stat: -14.026, P-value: 0.0000 --> Significant

H2 - Paired t-test upright vs inverted

Stat: 13.141, P-value: 0.0000 --> Significant

H3 - Independent t-test individual vs matrixed

Stat: 3.509, P-value: 0.0005 --> Significant

H4 - Proportion z-test matrix vs chance

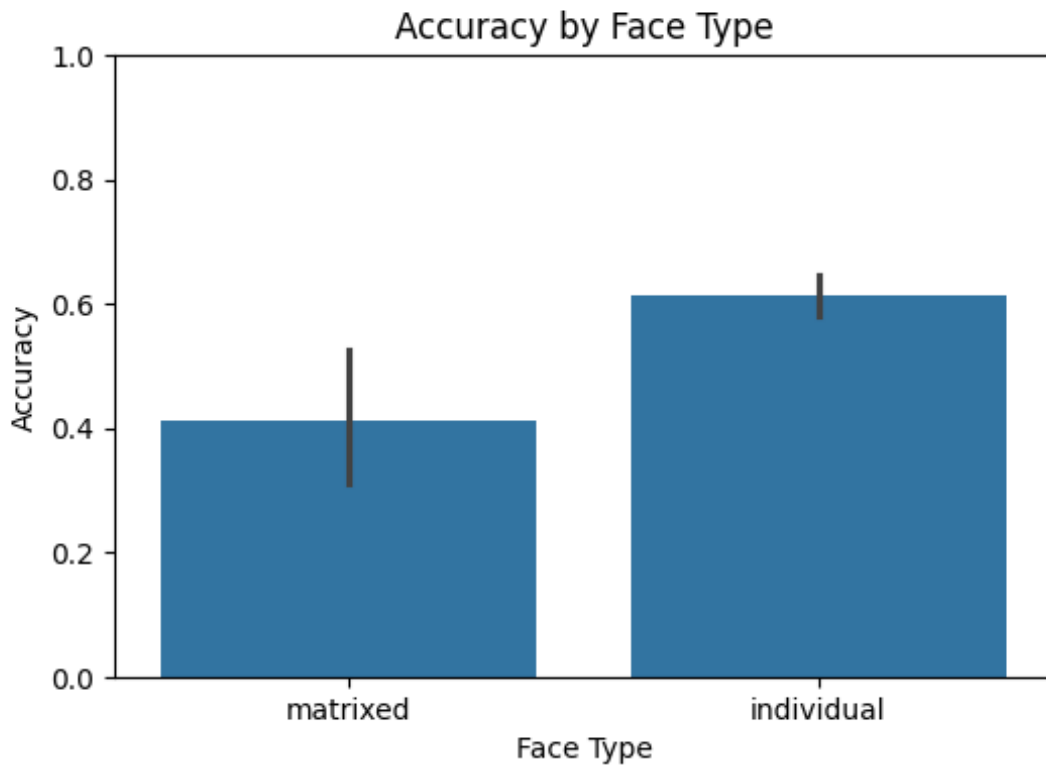
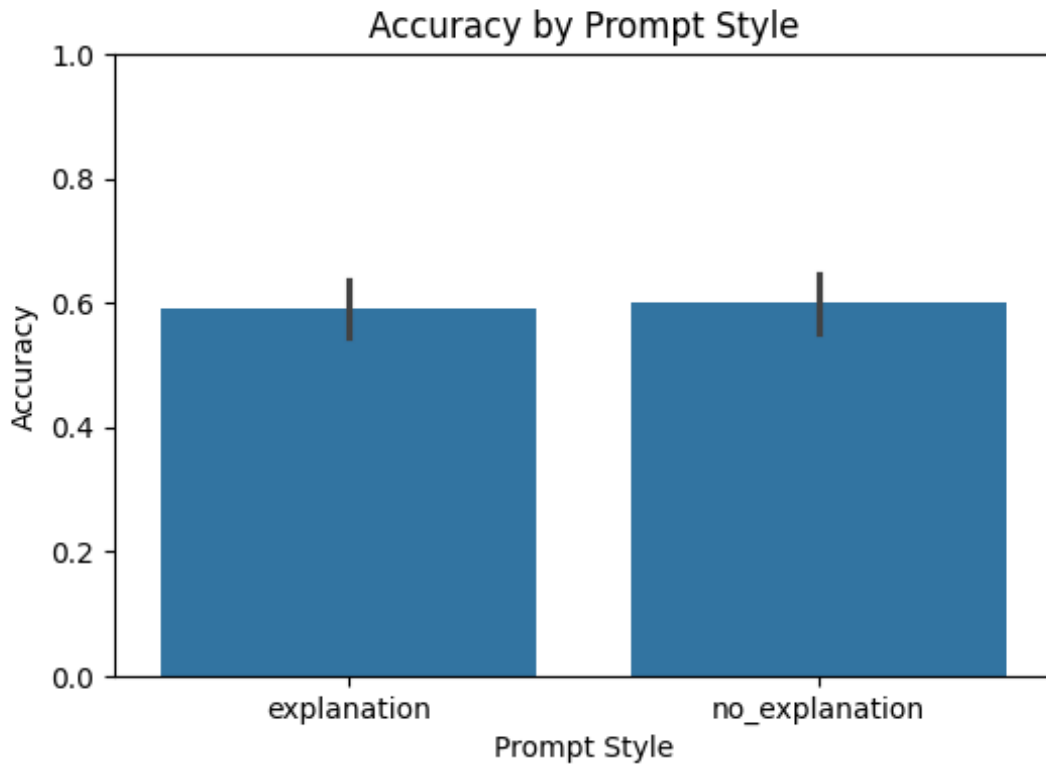
Stat: 4.899, P-value: 0.0000 --> Significant

H5 - Paired t-test explanation vs no-explanation

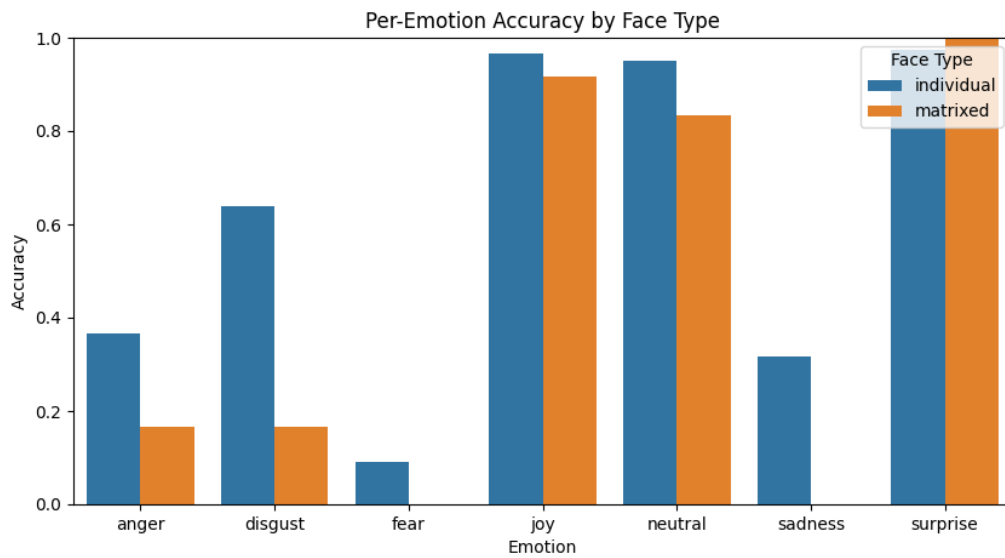
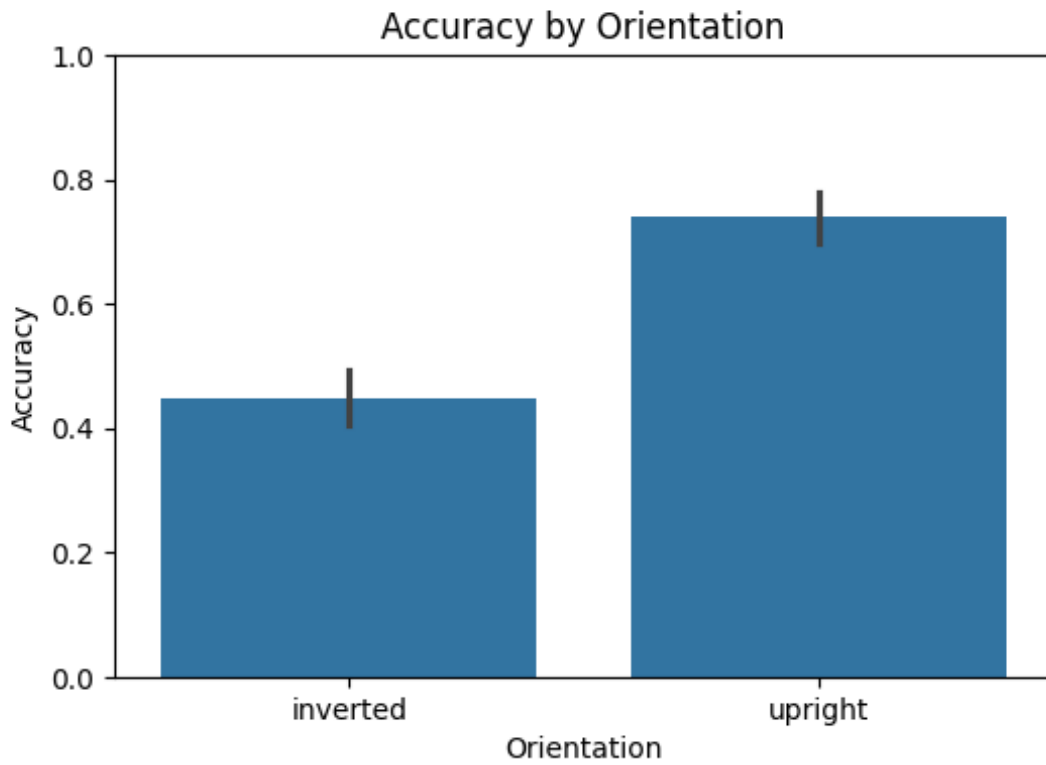
Stat: -0.962, P-value: 0.3365 --> Not Significant

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## Visualizations



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