

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 - Welch t-test individual vs matrixed

Stat: 1.911, P-value: 0.0693 --> Not Significant

H4 - Proportion z-test matrix vs chance

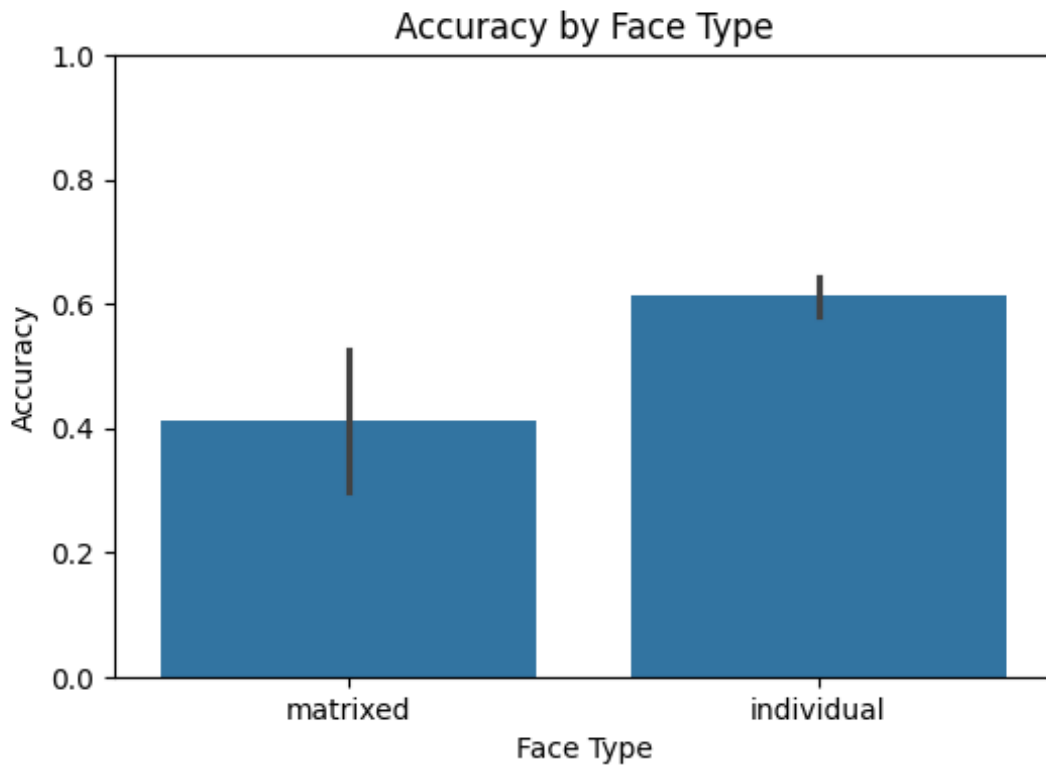
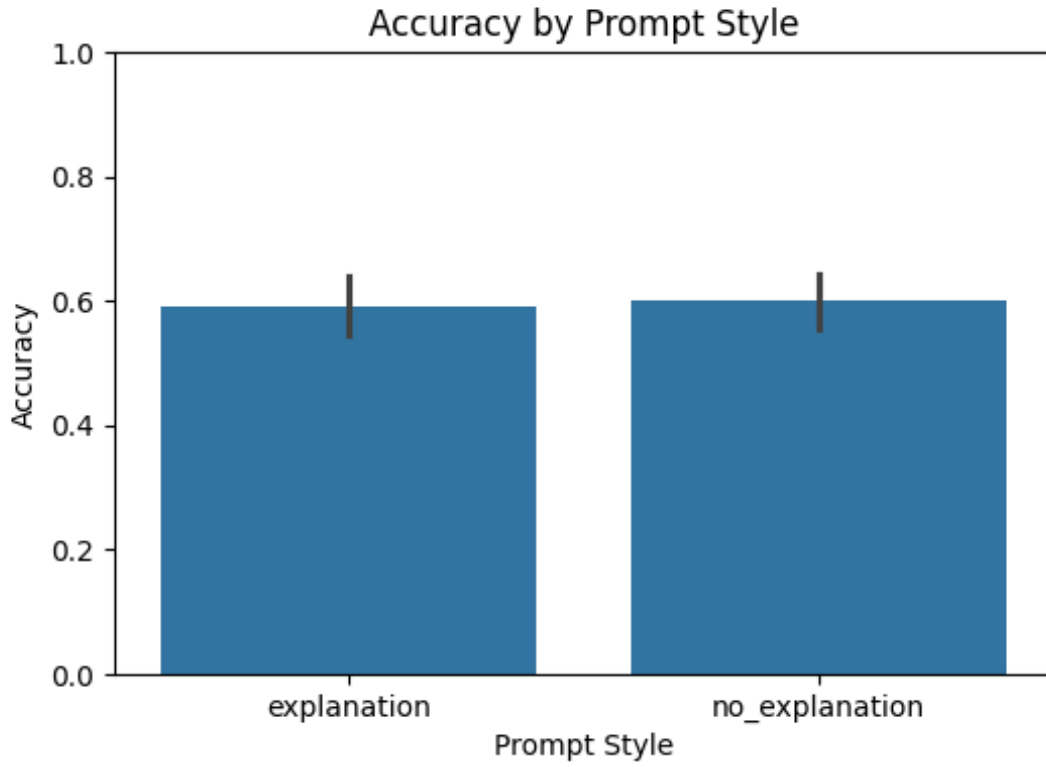
Stat: 4.899, P-value: 0.0000 --> Significant

H5 - Paired t-test explanation vs no-explanation

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

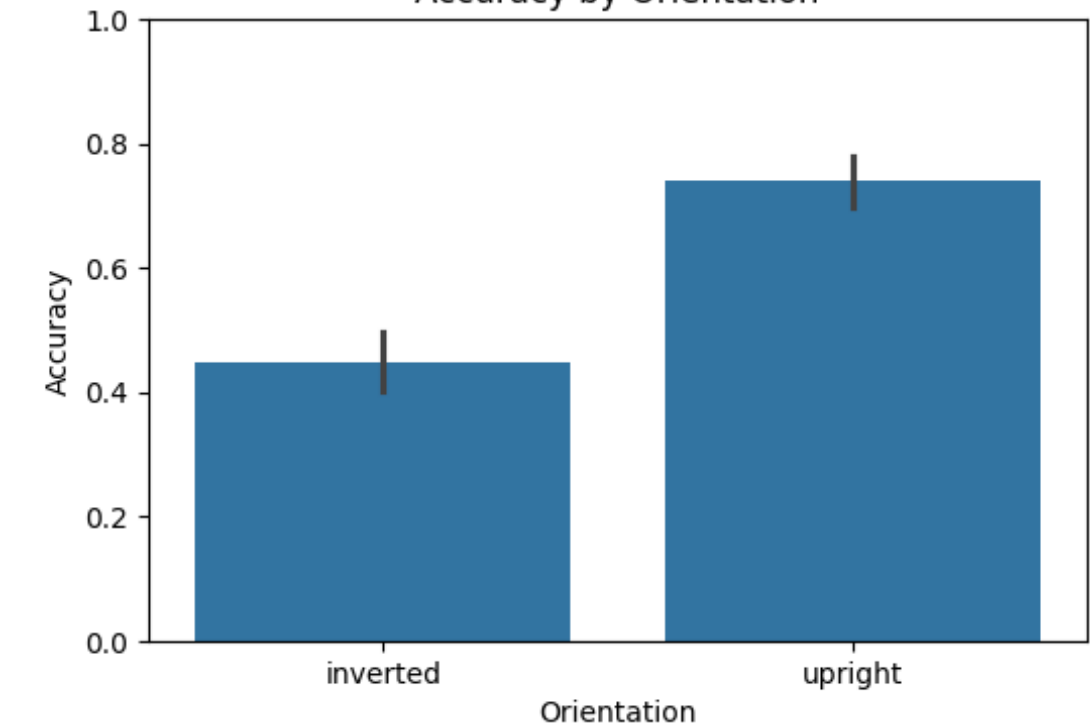
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Visualizations

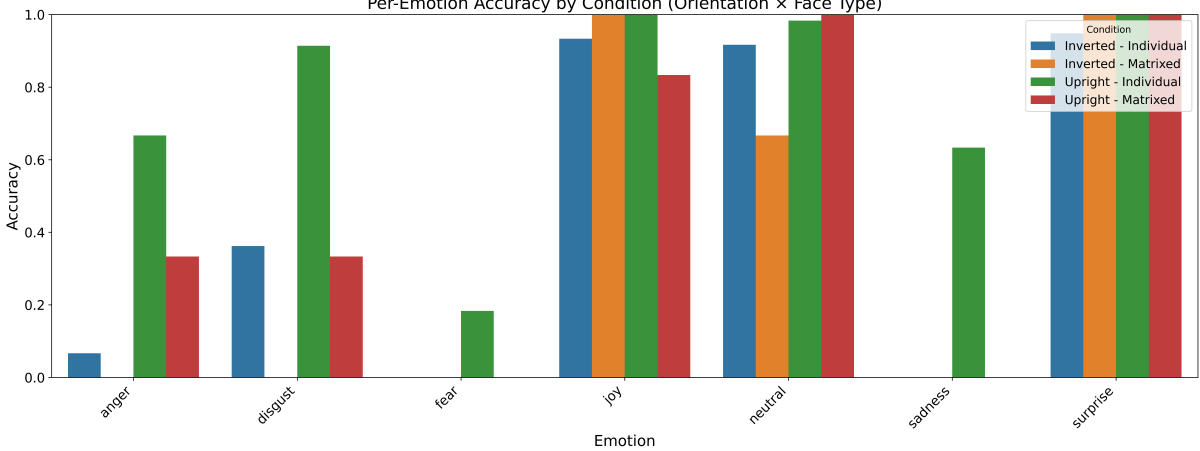


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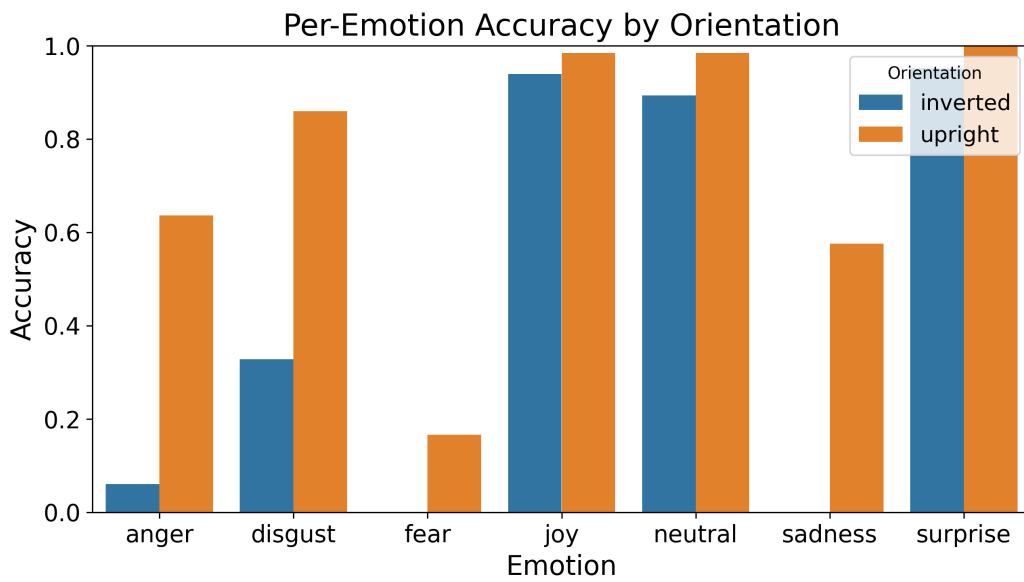
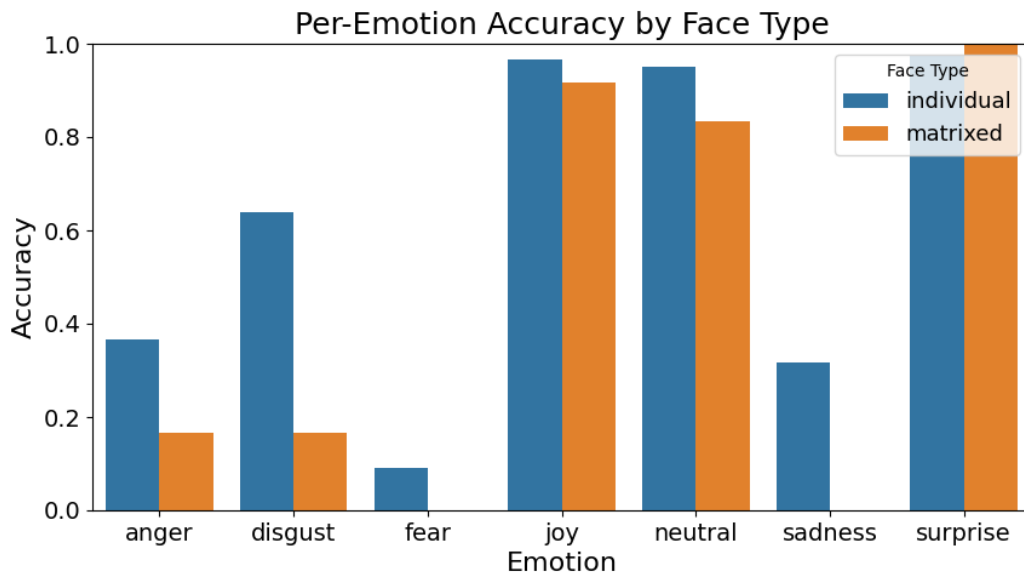
Accuracy by Orientation



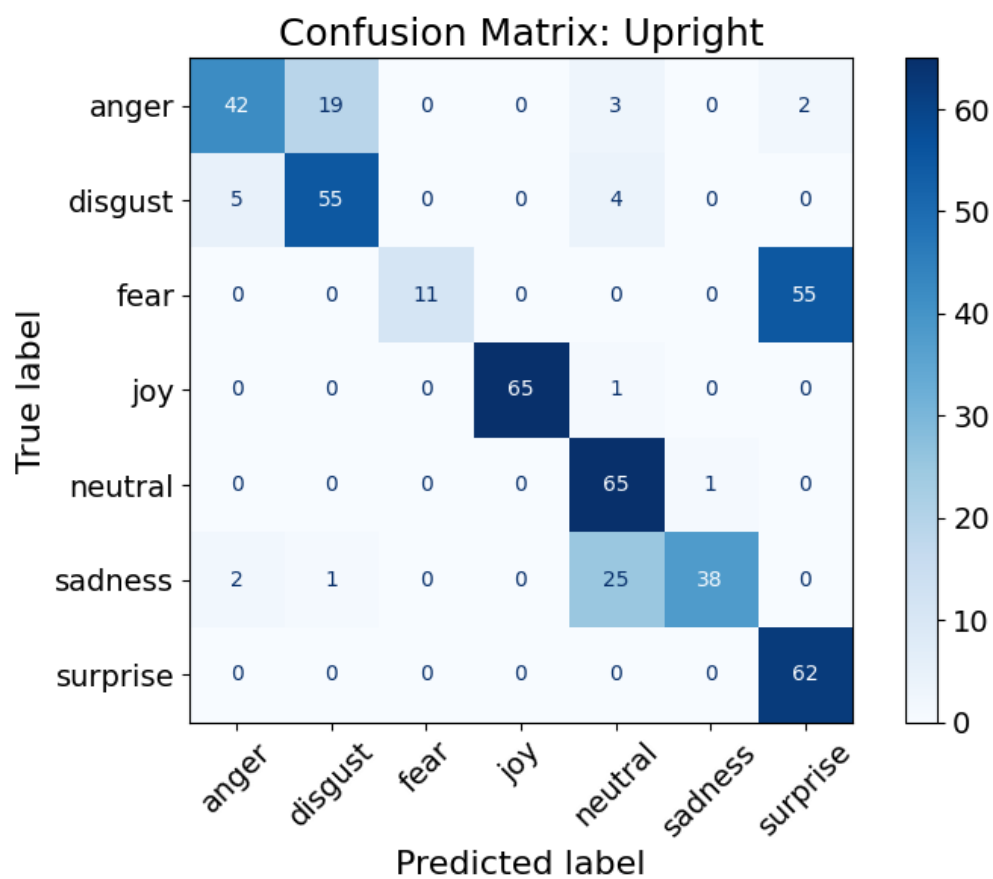
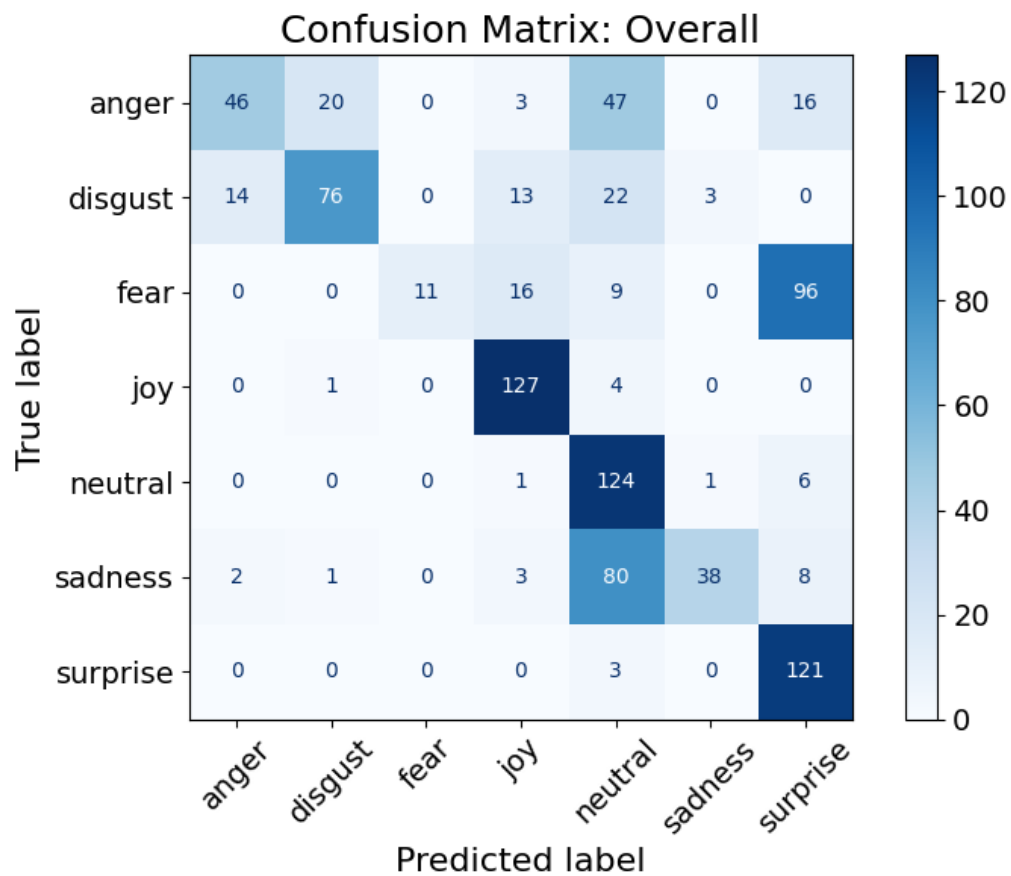
Per-Emotion Accuracy by Condition (Orientation × Face Type)



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