AQC0906

Nanopublication — Computational Image Analysis - AQC0906

by Arnaud Quercy · E Minor - Research on Harmony - Variations 8 · 2025

Claim 1: Computational Image Analysis - AQC0906

> The artwork E Minor [1] - Research on Harmony - Variations 8 (AQC0906) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-12-11. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

CONTEXT

Analysis performed according to MMIDS-CMP-2025 [3] includes four metric categories: (1) Color distribution via k-means (10 colors), (2) Texture analysis using Haralick features, (3) Brightness and contrast measurements, (4) Spatial pattern characterization. Source image [5]: 1946x1946 pixels. Analysis date: 2025-12-11.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E4D29E	17.1	yellow-orange	palegoldenrod
2		E4AB63	16.2	orange	sandybrown
3		484030	15.2	yellow-orange	darkslategray
4		AFAF03	12.9	yellow	darkgoldenrod
5		D2C50F	11.9	yellow	goldenrod
6		E36B01	10.7	orange	chocolate
7		61574A	5.9	yellow-orange	dark brown
8		EBE4CC	5.3	yellow	antiquewhite
9		B2B749	2.8	yellow	ochre
10		2C2013	1.9	orange	very dark gray
11		501000	0.3	red-orange	very dark red [Accent]
12		B9C673	0.3	yellow-green	ochre [Accent]

Color Families:

Family	%
yellow-orange	38.2
yellow	33.0
orange	28.8
red-orange	0.3
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
501000	red-orange	very dark red	37.5
B9C673	yellow-green	ochre	43.5

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.211
Mean Local Roughness	0.021
Roughness Uniformity	0.026
Edge Density	0.085
Mean Gradient Magnitude	0.161
Gradient Variance	0.066
Gradient Smoothness	0.0
Directional Coherence	0.045
Pattern Complexity	0.113
Pattern Repetition	1.0
Detail Frequency Ratio	0.652
Spatial Variation	0.164
Texture Consistency	0.465

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.602
Brightness Variance	0.211
Brightness Uniformity	0.649
Brightness Skewness	-0.66
Brightness Entropy	7.292
Rms Contrast	0.211
Michelson Contrast	1.0
Weber Contrast	0.695
Mean Local Contrast	0.023
Contrast Uniformity	0.0
Dynamic Range	0.996
Effective Dynamic Range	0.643
Shadow Percentage	19.31
Midtone Percentage	29.616
Highlight Percentage	51.074
Shadow Clipping	0.024
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.028
Coarse Contrast	0.038
Multiscale Contrast Ratio	0.301
Edge Contrast	0.161
Contrast Clustering	0.535

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.822
Color Clustering	0.421
Color Transition Smoothness	0.569
Transition Uniformity	0.516

Metric	Value
Sharp Transition Ratio	0.1
Transition Directionality	0.05
Mean Saturation	0.587
Saturation Variance	0.098
Low Saturation Ratio	0.216
Medium Saturation Ratio	0.415
High Saturation Ratio	0.369
Saturation Clustering	0.998
Hue Concentration	0.977
Complementary Balance	0.0
Analogous Dominance	0.999
Temperature Bias	0.864

Methodology

This analysis employs standardized computational methods for objective image characterization. Color extraction uses k-means clustering algorithm. Texture analysis applies Haralick feature extraction. Brightness metrics include mean, variance, and distribution analysis. Spatial patterns are characterized through coherence and clustering measurements. All methods are deterministic and reproducible. Analysis performed by Multimodal Institute's computational imaging systems.

REFERENCES

[1] Arnaud Quercy (2025). E Minor - Research on Harmony - Variations 8 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0906.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/e-minor-research-on-harmony-variations-8_ici.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

b5d2c810190085ce3de59dc56d69e1248f53f85661069d665d3993264-faee83f

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