

Nanopublication – Computational Image Analysis –
AQC0734

by Arnaud Quercy · E Minor – Research on Harmony – Variation 2 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0734

The artwork E Minor [1] – Research on Harmony – Variation 2 (AQC0734) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. 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]: 2913x3884 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		C7AA8A	18.9	orange	tan
2		639E70	17.9	yellow-green	mediumseagreen
3		D1B89F	14.8	orange	burlywood
4		9D9B93	12.5	gray	steel gray
5		8D8982	10.4	gray	gray
6		0B0E12	9.1	black	black
7		99B4AD	6.4	green	steel gray
8		B1A266	4.7	yellow	ochre
9		B0CAC5	3.5	green	silver
10		8B6E1D	1.9	yellow-orange	olive
11		D8E4EC	0.3	blue	gainsboro [Accent]
12		394749	0.3	blue-green	darkslategray [Accent]

Color Families:

Family	%
orange	33.6
gray	22.9
yellow-green	17.9
green	9.9
black	9.1
yellow	4.7
yellow-orange	1.9
blue	0.3
blue-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
D8E4EC	blue	gainsboro	5.8
394749	blue-green	darkslategray	6.7

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.187
Mean Local Roughness	0.02
Roughness Uniformity	0.019
Edge Density	0.089
Mean Gradient Magnitude	0.15
Gradient Variance	0.04
Gradient Smoothness	0.0
Directional Coherence	0.015
Pattern Complexity	0.131
Pattern Repetition	1.0
Detail Frequency Ratio	0.648
Spatial Variation	0.137
Texture Consistency	0.15

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.58
Brightness Variance	0.187
Brightness Uniformity	0.678
Brightness Skewness	-1.864
Brightness Entropy	6.686
Rms Contrast	0.187
Michelson Contrast	1.0
Weber Contrast	0.436
Mean Local Contrast	0.021
Contrast Uniformity	0.012
Dynamic Range	1.0
Effective Dynamic Range	0.706
Shadow Percentage	9.243
Midtone Percentage	50.991
Highlight Percentage	39.766
Shadow Clipping	0.03
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.026
Coarse Contrast	0.034
Multiscale Contrast Ratio	0.316
Edge Contrast	0.15
Contrast Clustering	0.85

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.801
Color Clustering	0.708
Color Transition Smoothness	0.626
Transition Uniformity	0.727
Sharp Transition Ratio	0.1
Transition Directionality	0.019
Mean Saturation	0.27
Saturation Variance	0.027
Low Saturation Ratio	0.6
Medium Saturation Ratio	0.375
High Saturation Ratio	0.025
Saturation Clustering	0.999
Hue Concentration	0.495
Complementary Balance	0.083
Analogous Dominance	0.592
Temperature Bias	0.176

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 (2024). E Minor - Research on Harmony - Variation 2 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0734.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/e-minor-research-on-harmony-variation-2_85o.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>

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

chromesthetic translationE minor triad

synesthetic artacrylic on wood panel

harmonic relationshipsorange yellow-green palette

Synesthetic Explorationsmusical visualization

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

8a0201f2c302de2a0b59d9fcf1c8324336b5093998606800c83c99e0cff12478

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