AQC0942

Nanopublication — Computational Image Analysis - AQC0942

by Arnaud Quercy · Eb Major - Research on Harmony - Variations 7 · 2025

Claim 1: Computational Image Analysis - AQC0942

> The artwork Eb Major [1] - Research on Harmony - Variations 7 (AQC0942) [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]: 1878x2629 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		241E1C	16.6	gray	very dark gray
2		E5C4D6	15.4	red-violet	thistle
3		5390EB	12.9	blue-violet	cornflowerblue
4		8B5E92	10.6	red-violet	dusty mauve
5		EEE5CF	8.6	yellow-orange	antiquewhite
6		477FD6	8.1	blue-violet	royalblue
7		B26E12	8.1	orange	darkgoldenrod
8		CB7711	7.3	orange	chocolate
9		E5AB5A	6.2	yellow-orange	sandybrown
10		DA9B46	6.0	orange	peru
11		4F5674	0.3	violet	dusty mauve [Accent]
12		60848C	0.3	blue-green	blue gray [Accent]
13		796264	0.3	red	dimgray [Accent]
14		975D60	0.3	red-orange	dimgray [Accent]

Color Families:

Family	%
red-violet	26.1
orange	21.4
blue-violet	21.1
gray	16.6
yellow-orange	14.8
violet	0.3
blue-green	0.3
red	0.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
4F5674	violet	dusty mauve	18.7
60848C	blue-green	blue gray	12.8
796264	red	dimgray	9.2
975D60	red-orange	dimgray	25.3

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.237
Mean Local Roughness	0.015
Roughness Uniformity	0.014
Edge Density	0.017
Mean Gradient Magnitude	0.105
Gradient Variance	0.029
Gradient Smoothness	0.0
Directional Coherence	0.003
Pattern Complexity	0.136
Pattern Repetition	1.0
Detail Frequency Ratio	0.607
Spatial Variation	0.176
Texture Consistency	0.517

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.539
Brightness Variance	0.237
Brightness Uniformity	0.56
Brightness Skewness	-0.318
Brightness Entropy	7.035
Rms Contrast	0.237
Michelson Contrast	1.0
Weber Contrast	0.846
Mean Local Contrast	0.015
Contrast Uniformity	0.0
Dynamic Range	0.996
Effective Dynamic Range	0.792
Shadow Percentage	16.717
Midtone Percentage	51.489
Highlight Percentage	31.795
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.019
Coarse Contrast	0.026
Multiscale Contrast Ratio	0.392
Edge Contrast	0.105

Metric	Value
Contrast Clustering	0.483

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.793
Color Clustering	0.629
Color Transition Smoothness	0.72
Transition Uniformity	0.789
Sharp Transition Ratio	0.1
Transition Directionality	0.003
Mean Saturation	0.471
Saturation Variance	0.078
Low Saturation Ratio	0.357
Medium Saturation Ratio	0.463
High Saturation Ratio	0.18
Saturation Clustering	0.999
Hue Concentration	0.288
Complementary Balance	0.301
Analogous Dominance	0.546
Temperature Bias	0.248

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). Eb Major - Research on Harmony - Variations 7 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0942.html

[2] Quercy, A. (2025). Eb Major - Research on Harmony - Variations 7 - Gallery. https://artquamanima.com/en/artworks/2025/12/eb-major-research-on-harmony-variations-7_1i48.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)

b3ac745aada13dadfc4c1c19de705197b2b1ad299310ee383be8-ab50798d0a04

Artist	Arnaud Quercy
Date	2025
Collection	Synesthetic Explorations
Certificate	20251231-0137
Asset code	AQC0942
Version	1
Published	2026-01-06

Published by: Art Quam Anima Publishing New York LLC — publishing.artquamanima.com

Date of publication: 2026-04-20

Persistent URI: https://multimodal.institute/en/nanopubs/2026/01/AQC0942-computational-image-analysis-aqc0942.pdf