AQC0866

Nanopublication — Computational Image Analysis - AQC0866

by Arnaud Quercy · G Minor - Research on Harmony - Variation 8 · 2025

Claim 1: Computational Image Analysis - AQC0866

> The artwork G Minor [1] - Research on Harmony - Variation 8 (AQC0866) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-12-09. 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]: 2264x3019 pixels. Analysis date: 2025-12-09.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		EC9930	22.0	orange	goldenrod
2		8E6FCC	16.1	violet	mediumpurple
3		E47F1A	14.8	orange	chocolate
4		7959B8	11.5	violet	slateblue
5		A585E0	10.3	violet	mediumslateblue
6		F2AF4E	8.5	yellow-orange	sandybrown
7		562866	6.2	red-violet	darkslateblue
8		6B3C8F	5.2	violet	dimgray
9		472C28	3.4	red-orange	darkslategray
10		886059	2.1	red-orange	dimgrey
11		A57E8C	0.3	red	dusty mauve [Accent]

Color Families:

Family	%
violet	43.0
orange	36.9
yellow-orange	8.5
red-violet	6.2
red-orange	5.5
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
A57E8C	red	dusty mauve	17.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.145
Mean Local Roughness	0.025
Roughness Uniformity	0.014
Edge Density	0.167
Mean Gradient Magnitude	0.201
Gradient Variance	0.029
Gradient Smoothness	0.159
Directional Coherence	0.005
Pattern Complexity	0.121
Pattern Repetition	1.0
Detail Frequency Ratio	0.631
Spatial Variation	0.103
Texture Consistency	0.709

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.533
Brightness Variance	0.145
Brightness Uniformity	0.728
Brightness Skewness	-0.807
Brightness Entropy	7.089
Rms Contrast	0.145
Michelson Contrast	0.969
Weber Contrast	0.568
Mean Local Contrast	0.026
Contrast Uniformity	0.458
Dynamic Range	0.98
Effective Dynamic Range	0.482
Shadow Percentage	12.371
Midtone Percentage	71.029
Highlight Percentage	16.599
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.015
Medium Contrast	0.032
Coarse Contrast	0.046
Multiscale Contrast Ratio	0.317
Edge Contrast	0.201
Contrast Clustering	0.291

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.717
Color Clustering	0.31
Color Transition Smoothness	0.49
Transition Uniformity	0.806
Sharp Transition Ratio	0.1

Metric	Value
Transition Directionality	0.001
Mean Saturation	0.63
Saturation Variance	0.034
Low Saturation Ratio	0.022
Medium Saturation Ratio	0.558
High Saturation Ratio	0.42
Saturation Clustering	0.999
Hue Concentration	0.46
Complementary Balance	0.0
Analogous Dominance	0.506
Temperature Bias	0.517

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). G Minor - Research on Harmony - Variation 8 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0866.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/g-minor-research-on-harmony-variation-8_9l0.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)

0df4647b60714e35449a7757d-c55870888ba71a74b23b1e069f41b449d48924a

Artist	Arnaud Quercy
Date	2025
Collection	Synesthetic Explorations
Certificate	20250125-0062
Asset code	AQC0866
Version	1
Published	2026-04-19

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

Date of publication: 2026-04-19

Persistent URI: https://multimodal.institute/en/nanopubs/2025/11/AQC0866-computational-image-analysis-aqc0866.pdf