AQC0561

Nanopublication — Computational Image Analysis - AQC0561

by Arnaud Quercy · C Major9 - Research on Harmony - Variation 13 · 2024

Claim 1: Computational Image Analysis - AQC0561

> The artwork C Major9 - Research [1] on Harmony - Variation 13 (AQC0561) [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]: 3024x4032 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		332A2F	17.9	red-violet	very dark gray
2		D89679	13.7	orange	darksalmon
3		494044	12.7	gray	dusty mauve
4		1C151D	11.7	red-violet	black
5		EAA98C	11.2	orange	burlywood
6		EA7649	11.1	orange	coral
7		D7653A	8.8	orange	chocolate
8		675E62	5.8	gray	dusty mauve
9		D5CDC0	4.4	yellow-orange	lightgray
10		928B8D	2.6	gray	gray
11		F0ECDB	0.3	yellow	white [Accent]
12		A74E31	0.3	red-orange	burnt sienna [Accent]

Color Families:

Family	%
orange	44.9
red-violet	29.7
gray	21.0
yellow-orange	4.4
yellow	0.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
F0ECDB	yellow	white	9.1
A74E31	red-orange	burnt sienna	48.8

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.237
Mean Local Roughness	0.024
Roughness Uniformity	0.027
Edge Density	0.105
Mean Gradient Magnitude	0.223
Gradient Variance	0.084
Gradient Smoothness	0.0
Directional Coherence	0.02
Pattern Complexity	0.116
Pattern Repetition	1.0
Detail Frequency Ratio	0.611
Spatial Variation	0.188
Texture Consistency	0.498

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.431
Brightness Variance	0.237
Brightness Uniformity	0.449
Brightness Skewness	-0.023
Brightness Entropy	7.534
Rms Contrast	0.237
Michelson Contrast	1.0
Weber Contrast	0.821
Mean Local Contrast	0.027
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.667
Shadow Percentage	42.678
Midtone Percentage	35.121
Highlight Percentage	22.201
Shadow Clipping	0.034
Highlight Clipping	0.019
Tonal Balance	0.228
Fine Contrast	0.013
Medium Contrast	0.034
Coarse Contrast	0.061
Multiscale Contrast Ratio	0.209
Edge Contrast	0.223
Contrast Clustering	0.502

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.745
Color Clustering	0.767

Metric	Value
Color Transition Smoothness	0.391
Transition Uniformity	0.385
Sharp Transition Ratio	0.1
Transition Directionality	0.024
Mean Saturation	0.36
Saturation Variance	0.049
Low Saturation Ratio	0.439
Medium Saturation Ratio	0.442
High Saturation Ratio	0.119
Saturation Clustering	0.998
Hue Concentration	0.798
Complementary Balance	0.0
Analogous Dominance	0.865
Temperature Bias	0.865

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). C Major9 - Research on Harmony - Variation 13 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0561.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/c-major9-research-on-harmony-variation-13_6ae.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/10/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)

5d8694d4360c67273-fae36ed53cf354d442971d391eff30c9e6ac66d458038a2

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