AQC0865

Nanopublication — Computational Image Analysis - AQC0865

by Arnaud Quercy · G Major - Research on Harmony - Variation 9 · 2025

Claim 1: Computational Image Analysis - AQC0865

> Analysis record [3]: G Major [1] - Research on Harmony - Variation 9 (AQC0865) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2025-11-24.

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]: 2200x2933 pixels. Analysis date: 2025-11-24.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DF9348	18.5	orange	peru
2		E2A260	17.8	orange	sandybrown
3		D6750F	13.7	orange	chocolate
4		DD882C	12.5	orange	goldenrod
5		E9B377	12.5	orange	burlywood
6		D4C6A3	8.7	yellow-orange	tan
7		E2D6BF	6.7	yellow-orange	wheat
8		A4AC7C	3.4	yellow-green	ochre
9		8A8051	3.3	yellow	dimgray
10		47382C	3.0	orange	darkslategray
11		725752	0.3	red-orange	dimgray [Accent]

Color Families:

Family	%
orange	77.9
yellow-orange	15.4
yellow-green	3.4
yellow	3.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
725752	red-orange	dimgray	12.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.121
Mean Local Roughness	0.019
Roughness Uniformity	0.012
Edge Density	0.063
Mean Gradient Magnitude	0.145
Gradient Variance	0.022
Gradient Smoothness	0.0
Directional Coherence	0.003
Pattern Complexity	0.126
Pattern Repetition	1.0
Detail Frequency Ratio	0.618
Spatial Variation	0.045
Texture Consistency	0.522

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.648
Brightness Variance	0.121
Brightness Uniformity	0.813
Brightness Skewness	-1.015
Brightness Entropy	6.834
Rms Contrast	0.121
Michelson Contrast	0.984
Weber Contrast	0.345
Mean Local Contrast	0.019
Contrast Uniformity	0.329
Dynamic Range	0.992
Effective Dynamic Range	0.349
Shadow Percentage	2.846
Midtone Percentage	52.089
Highlight Percentage	45.064
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.012
Medium Contrast	0.023
Coarse Contrast	0.034
Multiscale Contrast Ratio	0.346
Edge Contrast	0.145
Contrast Clustering	0.478

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.73
Color Clustering	0.414
Color Transition Smoothness	0.64
Transition Uniformity	0.849
Sharp Transition Ratio	0.1
Transition Directionality	0.002
Mean Saturation	0.58
Saturation Variance	0.056

Metric	Value
Low Saturation Ratio	0.178
Medium Saturation Ratio	0.503
High Saturation Ratio	0.318
Saturation Clustering	0.999
Hue Concentration	0.982
Complementary Balance	0.0
Analogous Dominance	0.998
Temperature Bias	0.955

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 Major - Research on Harmony - Variation 9 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0865.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/g-major-research-on-harmony-variation-9_9km.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)

9c9488175d5c66011f992b156860505d19a3887761914a268d7e22b64d527f-b0

Artist	Arnaud Quercy
Date	2025
Collection	Synesthetic Explorations
Certificate	20250125-0061
Asset code	AQC0865
Version	1
Published	2026-04-09

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

Date of publication: 2026-04-09

Persistent URI: https://multimodal.institute/en/nanopubs/2025/11/AQC0865-computational-image-analysis-aqc0865.pdf