AQC0923

Nanopublication — Computational Image Analysis - AQC0923

by Arnaud Quercy · C Major - Research on Harmony - Variations 16 · 2025

Claim 1: Computational Image Analysis - AQC0923

> Analysis record [3]: C Major [1] - Research on Harmony - Variations 16 (AQC0923) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2025-12-11.

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]: 1802x2703 pixels. Analysis date: 2025-12-11.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E99F5A	17.7	orange	sandybrown
2		DF904C	17.4	orange	peru
3		D84539	15.0	red-orange	indianred
4		EA5F3E	14.8	red-orange	tomato
5		E2B0B6	12.0	red	lightpink
6		EA790C	11.7	orange	darkorange
7		F0DFD3	4.5	orange	antiquewhite
8		574842	3.7	orange	dark brown
9		431B13	2.1	red-orange	very dark red
10		ECDC4F	1.1	yellow	khaki
11		F1D87B	0.3	yellow-orange	khaki [Accent]

Color Families:

Family	%
orange	55.0
red-orange	31.9
red	12.0
yellow	1.1
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
F1D87B	yellow-orange	khaki	49.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.148
Mean Local Roughness	0.016
Roughness Uniformity	0.022
Edge Density	0.037
Mean Gradient Magnitude	0.128
Gradient Variance	0.054
Gradient Smoothness	0.0
Directional Coherence	0.049
Pattern Complexity	0.112
Pattern Repetition	1.0
Detail Frequency Ratio	0.627
Spatial Variation	0.058
Texture Consistency	0.586

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.593
Brightness Variance	0.148
Brightness Uniformity	0.75
Brightness Skewness	-0.474
Brightness Entropy	7.079
Rms Contrast	0.148
Michelson Contrast	1.0
Weber Contrast	0.441
Mean Local Contrast	0.018
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.525
Shadow Percentage	5.507
Midtone Percentage	62.656
Highlight Percentage	31.836
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.022
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.128
Contrast Clustering	0.414

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.72
Color Clustering	0.331
Color Transition Smoothness	0.683
Transition Uniformity	0.638
Sharp Transition Ratio	0.1
Transition Directionality	0.06
Mean Saturation	0.616
Saturation Variance	0.057

Metric	Value
Low Saturation Ratio	0.197
Medium Saturation Ratio	0.447
High Saturation Ratio	0.356
Saturation Clustering	0.999
Hue Concentration	0.97
Complementary Balance	0.0
Analogous Dominance	1.0
Temperature Bias	1.0

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). C Major - Research on Harmony - Variations 16 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0923.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/c-major-research-on-harmony-variations-16_iia.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

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4a73204b89ce5758ef6bf729078b-f92c6574447c019c77687ad9865f356cde54

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