AQC0951

Nanopublication — Computational Image Analysis - AQC0951

by Arnaud Quercy · F Major 9 - Research on Harmony · 2026

Claim 1: Computational Image Analysis - AQC0951

> Computational image analysis [3] of artwork F Major [1] 9 - Research on Harmony (AQC0951) [2] by Arnaud Quercy [2] using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 2026-03-04.

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]: 1846x2769 pixels. Analysis date: 2026-03-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E8A573	17.4	orange	darksalmon
2		BABCBD	15.9	gray	silver
3		E9B2A8	14.5	red-orange	lightpink
4		ACAAA7	13.8	gray	steel gray
5		DC2E15	11.9	red-orange	firebrick
6		D07423	8.3	orange	chocolate
7		E6DDD2	8.0	yellow-orange	gainsboro
8		42364C	4.8	violet	dusty mauve
9		311D1F	2.8	red-orange	very dark gray
10		BA2034	2.6	red-orange	brown
11		8C69A1	0.3	red-violet	dusty mauve [Accent]

Color Families:

Family	%
red-orange	31.8
gray	29.7
orange	25.7
yellow-orange	8.0
violet	4.8
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
8C69A1	red-violet	dusty mauve	35.4

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.194
Mean Local Roughness	0.031
Roughness Uniformity	0.027
Edge Density	0.129
Mean Gradient Magnitude	0.219
Gradient Variance	0.071
Gradient Smoothness	0.0
Directional Coherence	0.014
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.662
Spatial Variation	0.107
Texture Consistency	0.598

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.624
Brightness Variance	0.194
Brightness Uniformity	0.689
Brightness Skewness	-0.935
Brightness Entropy	7.171
Rms Contrast	0.194
Michelson Contrast	1.0
Weber Contrast	0.585
Mean Local Contrast	0.031
Contrast Uniformity	0.115
Dynamic Range	1.0
Effective Dynamic Range	0.635
Shadow Percentage	9.856
Midtone Percentage	28.761
Highlight Percentage	61.383
Shadow Clipping	0.0
Highlight Clipping	0.086
Tonal Balance	0.0
Fine Contrast	0.018
Medium Contrast	0.038
Coarse Contrast	0.047
Multiscale Contrast Ratio	0.392
Edge Contrast	0.219
Contrast Clustering	0.402

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.742
Color Clustering	0.486
Color Transition Smoothness	0.467
Transition Uniformity	0.544
Sharp Transition Ratio	0.1

Metric	Value
Transition Directionality	0.014
Mean Saturation	0.377
Saturation Variance	0.105
Low Saturation Ratio	0.511
Medium Saturation Ratio	0.261
High Saturation Ratio	0.227
Saturation Clustering	0.999
Hue Concentration	0.878
Complementary Balance	0.001
Analogous Dominance	0.925
Temperature Bias	0.927

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 (2026). F Major 9 - Research on Harmony — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0951.html

[2] Quercy, A. (2026). F Major 9 - Research on Harmony - Gallery. https://artquaman-ima.com/en/artworks/2026/03/f-major-9-research-on-harmony_1ygn.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)

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2f6521cf2445310fd8bddd65f4b7121a157a1b-
daca2e615d51b94b73c9b4cf40
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Artist	Arnaud Quercy
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