AQC0913

Nanopublication — Computational Image Analysis - AQC0913

by Arnaud Quercy · G Major - Research on Harmony - Variations 12 · 2025

Claim 1: Computational Image Analysis - AQC0913

> The artwork G Major [1] - Research on Harmony - Variations 12 (AQC0913) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-12-11. 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]: 1936x1936 pixels. Analysis date: 2025-12-11.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E59A54	24.2	orange	sandybrown
2		E8833A	21.6	orange	peru
3		EFAE6A	13.2	orange	lightsalmon
4		5B5349	12.6	yellow-orange	dark brown
5		686056	11.0	yellow-orange	dimgray
6		E97C0D	6.1	orange	darkorange
7		B8BF59	4.4	yellow	ochre
8		F5E5D6	3.6	orange	white
9		E1CDBD	2.3	orange	lightgray
10		562C17	1.0	orange	russet
11		400C06	0.3	red-orange	very dark red [Accent]

Color Families:

Family	%
orange	72.0
yellow-orange	23.6
yellow	4.4
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
400C06	red-orange	very dark red	29.7

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.158
Mean Local Roughness	0.019
Roughness Uniformity	0.02
Edge Density	0.068
Mean Gradient Magnitude	0.152
Gradient Variance	0.043
Gradient Smoothness	0.0
Directional Coherence	0.025
Pattern Complexity	0.113
Pattern Repetition	1.0
Detail Frequency Ratio	0.64
Spatial Variation	0.121
Texture Consistency	0.553

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.59
Brightness Variance	0.158
Brightness Uniformity	0.733
Brightness Skewness	-0.434
Brightness Entropy	6.816
Rms Contrast	0.158
Michelson Contrast	0.992
Weber Contrast	0.534
Mean Local Contrast	0.022
Contrast Uniformity	0.026
Dynamic Range	0.996
Effective Dynamic Range	0.49
Shadow Percentage	5.958
Midtone Percentage	57.982
Highlight Percentage	36.06
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.026
Coarse Contrast	0.034
Multiscale Contrast Ratio	0.279
Edge Contrast	0.152
Contrast Clustering	0.447

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.764
Color Clustering	0.323
Color Transition Smoothness	0.621
Transition Uniformity	0.723
Sharp Transition Ratio	0.1
Transition Directionality	0.035
Mean Saturation	0.527

Metric	Value
Saturation Variance	0.063
Low Saturation Ratio	0.29
Medium Saturation Ratio	0.436
High Saturation Ratio	0.273
Saturation Clustering	0.999
Hue Concentration	0.987
Complementary Balance	0.0
Analogous Dominance	1.0
Temperature Bias	0.953

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 - Variations 12 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0913.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/g-major-research-on-harmony-variations-12_ieo.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)

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