AQC0840

Nanopublication — Computational Image Analysis - AQC0840

by Arnaud Quercy · G Major - Research on Harmony - Variation 7 · 2025

Claim 1: Computational Image Analysis - AQC0840

> The artwork G Major [1] - Research on Harmony - Variation 7 (AQC0840) [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]: 2467x3290 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		B6CC75	25.8	yellow-green	ochre
2		C1D681	20.5	yellow-green	ochre
3		ABC06C	18.9	yellow-green	ochre
4		9DAE63	10.8	yellow-green	ochre
5		8A9A54	7.4	yellow-green	gray
6		D1E393	6.3	yellow-green	khaki
7		875414	3.2	orange	russet
8		72823F	3.1	yellow-green	olivedrab
9		A77326	2.1	orange	burnt sienna
10		2B2F16	1.9	yellow-green	very dark green
11		BBA633	0.3	yellow-orange	goldenrod [Accent]
12		BAAB3E	0.3	yellow	peru [Accent]

Color Families:

Family	%
yellow-green	94.7
orange	5.3
yellow-orange	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
BBA633	yellow-orange	goldenrod	59.2
BAAB3E	yellow	peru	56.4

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.131
Mean Local Roughness	0.025
Roughness Uniformity	0.019
Edge Density	0.153
Mean Gradient Magnitude	0.202
Gradient Variance	0.041
Gradient Smoothness	0.0
Directional Coherence	0.004
Pattern Complexity	0.118
Pattern Repetition	1.0
Detail Frequency Ratio	0.634
Spatial Variation	0.073
Texture Consistency	0.585

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.682
Brightness Variance	0.131
Brightness Uniformity	0.808
Brightness Skewness	-1.788
Brightness Entropy	6.682
Rms Contrast	0.131
Michelson Contrast	1.0
Weber Contrast	0.36
Mean Local Contrast	0.027
Contrast Uniformity	0.314
Dynamic Range	0.996
Effective Dynamic Range	0.42
Shadow Percentage	2.617
Midtone Percentage	26.556
Highlight Percentage	70.828
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.014
Medium Contrast	0.033
Coarse Contrast	0.048
Multiscale Contrast Ratio	0.3
Edge Contrast	0.202
Contrast Clustering	0.415

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.698
Color Clustering	0.462
Color Transition Smoothness	0.508
Transition Uniformity	0.74
Sharp Transition Ratio	0.1

Metric	Value
Transition Directionality	0.006
Mean Saturation	0.446
Saturation Variance	0.012
Low Saturation Ratio	0.022
Medium Saturation Ratio	0.925
High Saturation Ratio	0.054
Saturation Clustering	0.999
Hue Concentration	0.984
Complementary Balance	0.0
Analogous Dominance	1.0
Temperature Bias	0.066

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 7 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0840.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/g-major-research-on-harmony-variation-7_9aw.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)

a984d6703c424585c26737619fe36a5a1457539dda11a640aef5ebdddb-f3c0b7

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