AQC0814

Nanopublication — Computational Image Analysis - AQC0814

by Arnaud Quercy · B Minor - Research on Harmony - Variation 5 · 2025

Claim 1: Computational Image Analysis - AQC0814

> The artwork B Minor [1] - Research on Harmony - Variation 5 (AQC0814) [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]: 2243x2991 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D4D6C3	19.6	yellow-green	lightgray
2		C4C7B4	19.3	yellow-green	silver
3		B5B7A4	17.1	yellow-green	steel gray
4		A4A692	13.9	yellow-green	steel gray
5		E3E5D6	10.6	yellow-green	white
6		91917F	9.5	yellow	gray
7		767767	3.8	yellow	dimgray
8		C5913A	2.3	yellow-orange	peru
9		DBC097	2.0	yellow-orange	burlywood
10		2B2823	2.0	gray	very dark gray
11		AC6F1B	0.3	orange	darkgoldenrod [Accent]

Color Families:

Family	%
yellow-green	80.4
yellow	13.2
yellow-orange	4.4
gray	2.0
orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
AC6F1B	orange	darkgoldenrod	55.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.141
Mean Local Roughness	0.032
Roughness Uniformity	0.019
Edge Density	0.222
Mean Gradient Magnitude	0.274
Gradient Variance	0.059
Gradient Smoothness	0.118
Directional Coherence	0.002
Pattern Complexity	0.123
Pattern Repetition	1.0
Detail Frequency Ratio	0.618
Spatial Variation	0.053
Texture Consistency	0.797

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.719
Brightness Variance	0.141
Brightness Uniformity	0.804
Brightness Skewness	-1.466
Brightness Entropy	6.976
Rms Contrast	0.141
Michelson Contrast	1.0
Weber Contrast	0.362
Mean Local Contrast	0.035
Contrast Uniformity	0.456
Dynamic Range	1.0
Effective Dynamic Range	0.396
Shadow Percentage	2.127
Midtone Percentage	26.821
Highlight Percentage	71.052
Shadow Clipping	0.002
Highlight Clipping	0.005
Tonal Balance	0.0
Fine Contrast	0.018
Medium Contrast	0.043
Coarse Contrast	0.067
Multiscale Contrast Ratio	0.261
Edge Contrast	0.274
Contrast Clustering	0.203

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.679
Color Clustering	0.573
Color Transition Smoothness	0.333
Transition Uniformity	0.63
Sharp Transition Ratio	0.1
Transition Directionality	0.002

Metric	Value
Mean Saturation	0.134
Saturation Variance	0.013
Low Saturation Ratio	0.957
Medium Saturation Ratio	0.029
High Saturation Ratio	0.014
Saturation Clustering	1.0
Hue Concentration	0.906
Complementary Balance	0.004
Analogous Dominance	0.96
Temperature Bias	0.591

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). B Minor - Research on Harmony - Variation 5 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0814.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/b-minor-research-on-harmony-variation-5_90s.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)

a4b0683631d6f63604872eef8913a51c4255e4c206a8f2d67f2c-c2a6c08de657

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