AQC0892

Nanopublication — Computational Image Analysis - AQC0892

by Arnaud Quercy · B Major - Research on Harmony - Variations 8 · 2025

Claim 1: Computational Image Analysis - AQC0892

> The artwork B Major [1] - Research on Harmony - Variations 8 (AQC0892) [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]: 1953x2930 pixels. Analysis date: 2025-12-11.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		CE8DB1	16.4	red-violet	rosybrown
2		8EACD6	15.0	blue-violet	skyblue
3		EDD8AA	14.4	yellow-orange	wheat
4		BB7C9C	13.8	red	palevioletred
5		E4B7C2	11.1	red	thistle
6		544B32	9.9	yellow-orange	dark brown
7		D0CBDE	9.7	violet	lightgray
8		6E6C54	4.0	yellow	dimgray
9		80B250	3.0	yellow-green	yellowgreen
10		281C18	2.5	orange	very dark gray
11		F9DADC	0.3	red-orange	mistyrose [Accent]

Color Families:

Family	%
red	25.0
yellow-orange	24.4
red-violet	16.4
blue-violet	15.0
violet	9.7
yellow	4.0
yellow-green	3.0
orange	2.5
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
F9DADC	red-orange	mistyrose	11.4

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.185
Mean Local Roughness	0.022
Roughness Uniformity	0.023
Edge Density	0.101
Mean Gradient Magnitude	0.187
Gradient Variance	0.068
Gradient Smoothness	0.0
Directional Coherence	0.004
Pattern Complexity	0.128
Pattern Repetition	1.0
Detail Frequency Ratio	0.622
Spatial Variation	0.11
Texture Consistency	0.841

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.641
Brightness Variance	0.185
Brightness Uniformity	0.712
Brightness Skewness	-0.954
Brightness Entropy	7.2
Rms Contrast	0.185
Michelson Contrast	1.0
Weber Contrast	0.62
Mean Local Contrast	0.025
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.604
Shadow Percentage	10.746
Midtone Percentage	42.015
Highlight Percentage	47.239
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.012
Medium Contrast	0.031
Coarse Contrast	0.049
Multiscale Contrast Ratio	0.242
Edge Contrast	0.187
Contrast Clustering	0.159

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.763
Color Clustering	0.727

Metric	Value
Color Transition Smoothness	0.529
Transition Uniformity	0.544
Sharp Transition Ratio	0.1
Transition Directionality	0.009
Mean Saturation	0.301
Saturation Variance	0.014
Low Saturation Ratio	0.433
Medium Saturation Ratio	0.561
High Saturation Ratio	0.006
Saturation Clustering	0.999
Hue Concentration	0.457
Complementary Balance	0.057
Analogous Dominance	0.684
Temperature Bias	0.524

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 Major - Research on Harmony - Variations 8 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0892.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/b-major-research-on-harmony-variations-8_i7g.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)

151b22ca70adb757da1b3d35abd8f1e9eb63860cec52e4e91e26a43dd-f9b8e61

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