AQC0898

Nanopublication — Computational Image Analysis - AQC0898

by Arnaud Quercy · B Major - Research on Harmony - Variations 9 · 2025

Claim 1: Computational Image Analysis - AQC0898

> The artwork B Major [1] - Research on Harmony - Variations 9 (AQC0898) [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]: 2084x3126 pixels. Analysis date: 2025-12-11.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		655935	15.7	yellow-orange	dark brown
2		99ACC7	13.6	blue-violet	steel gray
3		7D93B7	13.1	blue-violet	lightslategray
4		CB86A3	12.5	red	rosybrown
5		97BE42	11.5	yellow-green	yellowgreen
6		D5B48D	9.2	yellow-orange	tan
7		F0CAAD	8.6	orange	wheat
8		836667	8.3	red-orange	dimgray
9		D6D457	4.6	yellow	ochre
10		312312	3.1	yellow-orange	very dark gray
11		995797	0.3	red-violet	gray [Accent]
12		3A3747	0.3	violet	dusty mauve [Accent]
13		76938A	0.3	green	lightslategray [Accent]

Color Families:

Family	%
yellow-orange	27.9
blue-violet	26.7
red	12.5
yellow-green	11.5
orange	8.6
red-orange	8.3
yellow	4.6
red-violet	0.3
violet	0.3
green	0.3

Accent Colors:

Hex	Family	Name	Chroma
995797	red-violet	gray	44.1
3A3747	violet	dusty mauve	11.2
76938A	green	lightslategray	12.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.171
Mean Local Roughness	0.026
Roughness Uniformity	0.026
Edge Density	0.111
Mean Gradient Magnitude	0.213
Gradient Variance	0.082
Gradient Smoothness	0.0
Directional Coherence	0.024
Pattern Complexity	0.125
Pattern Repetition	1.0
Detail Frequency Ratio	0.63
Spatial Variation	0.092
Texture Consistency	0.738

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.586
Brightness Variance	0.171
Brightness Uniformity	0.709
Brightness Skewness	-0.673
Brightness Entropy	7.299
Rms Contrast	0.171
Michelson Contrast	1.0
Weber Contrast	0.568
Mean Local Contrast	0.029
Contrast Uniformity	0.032
Dynamic Range	1.0
Effective Dynamic Range	0.533
Shadow Percentage	9.342
Midtone Percentage	55.815
Highlight Percentage	34.843
Shadow Clipping	0.003
Highlight Clipping	0.001
Tonal Balance	0.0
Fine Contrast	0.014
Medium Contrast	0.035
Coarse Contrast	0.054
Multiscale Contrast Ratio	0.261
Edge Contrast	0.213
Contrast Clustering	0.262

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.722
Color Clustering	0.576
Color Transition Smoothness	0.458
Transition Uniformity	0.446
Sharp Transition Ratio	0.1
Transition Directionality	0.025
Mean Saturation	0.401
Saturation Variance	0.025
Low Saturation Ratio	0.255
Medium Saturation Ratio	0.699
High Saturation Ratio	0.046
Saturation Clustering	0.998
Hue Concentration	0.361
Complementary Balance	0.167
Analogous Dominance	0.518
Temperature Bias	0.347

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 9 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0898.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/b-major-research-on-harmony-variations-9_i9m.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)

80094e1fbae717e20353505a32af0c20d-f935ff8283f9acd8e37b8ade4c03851

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