AQC0870

Nanopublication — Computational Image Analysis - AQC0870

by Arnaud Quercy · C Major - Research on Harmony - Variations 13 · 2025

Claim 1: Computational Image Analysis - AQC0870

> The artwork C Major [1] - Research on Harmony - Variations 13 (AQC0870) [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]: 1895x2843 pixels. Analysis date: 2025-12-11.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		CD8B6E	22.4	orange	darksalmon
2		3C3433	17.4	gray	darkslategray
3		DC9E91	15.2	red-orange	tan
4		D23527	11.8	red-orange	firebrick
5		DD5B5F	8.8	red-orange	indianred
6		DB5E18	7.0	orange	chocolate
7		E0CDCA	6.4	red-orange	lightgray
8		E3B352	4.0	yellow-orange	sandybrown
9		2B120F	3.7	red-orange	very dark gray
10		8B4A34	3.1	red-orange	burnt sienna
11		FBE36A	0.3	yellow	khaki [Accent]
12		6B545B	0.3	red	dimgray [Accent]

Color Families:

Family	%
red-orange	49.1
orange	29.4
gray	17.4
yellow-orange	4.0
yellow	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
FBE36A	yellow	khaki	61.3
6B545B	red	dimgray	11.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.202
Mean Local Roughness	0.021
Roughness Uniformity	0.02
Edge Density	0.081
Mean Gradient Magnitude	0.171
Gradient Variance	0.055
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.122
Pattern Repetition	1.0
Detail Frequency Ratio	0.618
Spatial Variation	0.11
Texture Consistency	0.758

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.502
Brightness Variance	0.202
Brightness Uniformity	0.597
Brightness Skewness	-0.328
Brightness Entropy	7.442
Rms Contrast	0.202
Michelson Contrast	1.0
Weber Contrast	0.722
Mean Local Contrast	0.023
Contrast Uniformity	0.056
Dynamic Range	1.0
Effective Dynamic Range	0.627
Shadow Percentage	22.613
Midtone Percentage	55.14
Highlight Percentage	22.247
Shadow Clipping	0.0
Highlight Clipping	0.001
Tonal Balance	0.129
Fine Contrast	0.012
Medium Contrast	0.028
Coarse Contrast	0.045
Multiscale Contrast Ratio	0.258
Edge Contrast	0.171
Contrast Clustering	0.242

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.727
Color Clustering	0.467

Metric	Value
Color Transition Smoothness	0.564
Transition Uniformity	0.618
Sharp Transition Ratio	0.1
Transition Directionality	0.012
Mean Saturation	0.469
Saturation Variance	0.071
Low Saturation Ratio	0.288
Medium Saturation Ratio	0.486
High Saturation Ratio	0.226
Saturation Clustering	0.999
Hue Concentration	0.976
Complementary Balance	0.0
Analogous Dominance	0.999
Temperature Bias	1.0

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). C Major - Research on Harmony - Variations 13 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0870.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/c-major-research-on-harmony-variations-13_hzi.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)

6fb4a662cd9cd3cba6bf34172af43370eae2621f2edd9-ab5b338438cf89597b0

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