AQC0775

Nanopublication — Computational Image Analysis - AQC0775

by Arnaud Quercy · C Major - Research on Harmony - Variation 8 · 2024

Claim 1: Computational Image Analysis - AQC0775

> Analysis record [3]: C Major [1] - Research on Harmony - Variation 8 (AQC0775) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2026-02-04.

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]: 2186x3280 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		C6AFA4	16.0	orange	tan
2		B0A296	13.9	orange	steel gray
3		9B9183	12.2	yellow-orange	gray
4		A13C27	12.0	red-orange	brown
5		C04B27	10.7	red-orange	burnt sienna
6		1F191C	9.7	gray	very dark gray
7		8B4B49	9.0	red-orange	burnt sienna
8		DBB5C0	7.2	red	thistle
9		39363A	6.5	gray	dusty mauve
10		DB7214	2.9	orange	chocolate
11		756934	0.3	yellow	dark brown [Accent]
12		E6DBE4	0.3	red-violet	gainsboro [Accent]

Color Families:

Family	%
orange	32.7
red-orange	31.7
gray	16.2
yellow-orange	12.2
red	7.2
yellow	0.3
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
756934	yellow	dark brown	31.1
E6DBE4	red-violet	gainsboro	5.8

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.205
Mean Local Roughness	0.013
Roughness Uniformity	0.014
Edge Density	0.048
Mean Gradient Magnitude	0.13
Gradient Variance	0.039
Gradient Smoothness	0.0
Directional Coherence	0.018
Pattern Complexity	0.109
Pattern Repetition	1.0
Detail Frequency Ratio	0.578
Spatial Variation	0.122
Texture Consistency	0.63

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.488
Brightness Variance	0.205
Brightness Uniformity	0.581
Brightness Skewness	-0.394
Brightness Entropy	7.329
Rms Contrast	0.205
Michelson Contrast	1.0
Weber Contrast	0.774
Mean Local Contrast	0.016
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.643
Shadow Percentage	20.331
Midtone Percentage	53.501
Highlight Percentage	26.168
Shadow Clipping	0.005
Highlight Clipping	0.001
Tonal Balance	0.051
Fine Contrast	0.006
Medium Contrast	0.02
Coarse Contrast	0.038
Multiscale Contrast Ratio	0.165
Edge Contrast	0.13
Contrast Clustering	0.37

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.73
Color Clustering	0.663
Color Transition Smoothness	0.656
Transition Uniformity	0.715

Metric	Value
Sharp Transition Ratio	0.1
Transition Directionality	0.024
Mean Saturation	0.362
Saturation Variance	0.084
Low Saturation Ratio	0.606
Medium Saturation Ratio	0.15
High Saturation Ratio	0.244
Saturation Clustering	0.999
Hue Concentration	0.925
Complementary Balance	0.004
Analogous Dominance	0.966
Temperature Bias	0.963

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 (2024). C Major - Research on Harmony - Variation 8 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0775.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/c-major-research-on-harmony-variation-8_8lm.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)

606aa2943cf57a6988a7792ada521033fc700033a9df6-fa7b01039152f95554f

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