AQC0807

Nanopublication — Computational Image Analysis - AQC0807

by Arnaud Quercy · A Major - Research on Harmony - Variation 7 · 2025

Claim 1: Computational Image Analysis - AQC0807

> Analysis record [3]: A Major [1] - Research on Harmony - Variation 7 (AQC0807) [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]: 2374x3165 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D4CDBF	25.2	yellow-orange	lightgray
2		C5BDAF	19.3	yellow-orange	silver
3		E2DDD2	16.4	yellow-orange	gainsboro
4		ADAAA2	11.3	yellow-orange	steel gray
5		919290	9.7	gray	lightslategray
6		777877	6.2	gray	gray
7		D4C65C	3.4	yellow	ochre
8		5E9BB1	3.0	blue	cadetblue
9		3E4853	3.0	blue-violet	grayish purple
10		1F252B	2.6	gray	very dark gray
11		83BCCB	0.3	blue-green	skyblue [Accent]
12		B08774	0.3	orange	rosybrown [Accent]
13		B48579	0.3	red-orange	rosybrown [Accent]

Color Families:

Family	%
yellow-orange	72.2
gray	18.4
yellow	3.4
blue	3.0
blue-violet	3.0
blue-green	0.3
orange	0.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
83BCCB	blue-green	skyblue	19.8
B08774	orange	rosybrown	20.6
B48579	red-orange	rosybrown	21.3

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.169
Mean Local Roughness	0.032
Roughness Uniformity	0.021
Edge Density	0.206
Mean Gradient Magnitude	0.246
Gradient Variance	0.06
Gradient Smoothness	0.007
Directional Coherence	0.003
Pattern Complexity	0.118
Pattern Repetition	1.0
Detail Frequency Ratio	0.639
Spatial Variation	0.076
Texture Consistency	0.62

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.704
Brightness Variance	0.169
Brightness Uniformity	0.76
Brightness Skewness	-1.531
Brightness Entropy	7.063
Rms Contrast	0.169
Michelson Contrast	1.0
Weber Contrast	0.429
Mean Local Contrast	0.033
Contrast Uniformity	0.369
Dynamic Range	1.0
Effective Dynamic Range	0.557
Shadow Percentage	5.066
Midtone Percentage	24.532
Highlight Percentage	70.403
Shadow Clipping	0.013
Highlight Clipping	0.003
Tonal Balance	0.0
Fine Contrast	0.019
Medium Contrast	0.041
Coarse Contrast	0.058
Multiscale Contrast Ratio	0.319
Edge Contrast	0.246
Contrast Clustering	0.38

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.732
Color Clustering	0.652

Metric	Value
Color Transition Smoothness	0.394
Transition Uniformity	0.6
Sharp Transition Ratio	0.1
Transition Directionality	0.001
Mean Saturation	0.132
Saturation Variance	0.017
Low Saturation Ratio	0.902
Medium Saturation Ratio	0.096
High Saturation Ratio	0.002
Saturation Clustering	0.999
Hue Concentration	0.253
Complementary Balance	0.114
Analogous Dominance	0.576
Temperature Bias	-0.167

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). A Major - Research on Harmony - Variation 7 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0807.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/01/a-major-research-on-harmony-variation-7_8y2.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/10/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)

87f45de227df225f6ab1b072a5f1f944c502e026312f322fca05be090d-d2a65a

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