AQC0808

Nanopublication — Computational Image Analysis - AQC0808

by Arnaud Quercy · A Major - Research on Harmony - Variation 5 · 2025

Claim 1: Computational Image Analysis - AQC0808

> Analysis record [3]: A Major [1] - Research on Harmony - Variation 5 (AQC0808) [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]: 2407x3210 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DEC8AE	22.6	yellow-orange	wheat
2		CECEC6	13.0	white	lightgray
3		BAA594	12.9	orange	rosybrown
4		BEB9B0	12.7	yellow-orange	silver
5		A09082	12.4	orange	gray
6		D9B73C	7.0	yellow-orange	goldenrod
7		191616	6.8	black	black
8		322E2E	4.8	gray	darkslategray
9		827569	4.6	orange	grey
10		E4E3E0	3.3	white	gainsboro
11		709591	0.3	green	lightslategray [Accent]

Color Families:

Family	%
yellow-orange	42.2
orange	29.9
white	16.4
black	6.8
gray	4.8
green	0.3

Accent Colors:

Hex	Family	Name	Chroma
709591	green	lightslategray	14.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.214
Mean Local Roughness	0.016
Roughness Uniformity	0.02
Edge Density	0.063
Mean Gradient Magnitude	0.134
Gradient Variance	0.046
Gradient Smoothness	0.0
Directional Coherence	0.025
Pattern Complexity	0.116
Pattern Repetition	1.0
Detail Frequency Ratio	0.616
Spatial Variation	0.147
Texture Consistency	0.562

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.651
Brightness Variance	0.214
Brightness Uniformity	0.672
Brightness Skewness	-1.571
Brightness Entropy	7.048
Rms Contrast	0.214
Michelson Contrast	1.0
Weber Contrast	0.768
Mean Local Contrast	0.017
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.729
Shadow Percentage	11.566
Midtone Percentage	24.393
Highlight Percentage	64.041
Shadow Clipping	0.01
Highlight Clipping	0.073
Tonal Balance	0.0
Fine Contrast	0.009
Medium Contrast	0.022
Coarse Contrast	0.036
Multiscale Contrast Ratio	0.245
Edge Contrast	0.134
Contrast Clustering	0.438

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.722
Color Clustering	0.746
Color Transition Smoothness	0.661
Transition Uniformity	0.697
Sharp Transition Ratio	0.1
Transition Directionality	0.033
Mean Saturation	0.204

Metric	Value
Saturation Variance	0.031
Low Saturation Ratio	0.844
Medium Saturation Ratio	0.111
High Saturation Ratio	0.045
Saturation Clustering	0.999
Hue Concentration	0.891
Complementary Balance	0.039
Analogous Dominance	0.945
Temperature Bias	0.898

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 5 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0808.html

[2] Quercy, A. (2025). A Major - Research on Harmony - Variation 5 - Gallery. https://artquamanima.com/en/artworks/2025/01/a-major-research-on-harmony-variation-5_8yg.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)

c8846e748d816ae8095c4b-f59753b6b408793383613865143ad3370ee969e543

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