AQC0677

Nanopublication — Computational Image Analysis - AQC0677

by Arnaud Quercy · C Octaves - Reflexions 13 · 2024

Claim 1: Computational Image Analysis - AQC0677

> Analysis record [3]: C Octaves [1] - Reflexions 13 (AQC0677) [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]: 2379x3568 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D1C2BE	23.6	red-orange	silver
2		D8D4D5	18.1	white	lightgray
3		ADAFB1	13.8	gray	steel gray
4		D0ACA3	10.5	red-orange	tan
5		959799	9.5	gray	steel gray
6		BD6D46	6.8	orange	peru
7		A15236	6.1	orange	burnt sienna
8		CB8D73	4.7	orange	rosybrown
9		7C706F	3.8	gray	dimgray
10		3B383A	3.1	gray	dusty mauve
11		171B24	0.3	blue-violet	very dark gray [Accent]

Color Families:

Family	%
red-orange	34.2
gray	30.2
white	18.1
orange	17.6
blue-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
171B24	blue-violet	very dark gray	7.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.155
Mean Local Roughness	0.016
Roughness Uniformity	0.015
Edge Density	0.067
Mean Gradient Magnitude	0.134
Gradient Variance	0.031
Gradient Smoothness	0.0
Directional Coherence	0.016
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.607
Spatial Variation	0.094
Texture Consistency	0.699

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.674
Brightness Variance	0.155
Brightness Uniformity	0.771
Brightness Skewness	-1.1
Brightness Entropy	7.046
Rms Contrast	0.155
Michelson Contrast	1.0
Weber Contrast	0.462
Mean Local Contrast	0.017
Contrast Uniformity	0.072
Dynamic Range	1.0
Effective Dynamic Range	0.471
Shadow Percentage	3.13
Midtone Percentage	34.447
Highlight Percentage	62.422
Shadow Clipping	0.002
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.021
Coarse Contrast	0.034
Multiscale Contrast Ratio	0.248
Edge Contrast	0.134
Contrast Clustering	0.301

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.717
Color Clustering	0.601
Color Transition Smoothness	0.662
Transition Uniformity	0.791
Sharp Transition Ratio	0.1
Transition Directionality	0.019
Mean Saturation	0.18
Saturation Variance	0.043

Metric	Value
Low Saturation Ratio	0.804
Medium Saturation Ratio	0.164
High Saturation Ratio	0.032
Saturation Clustering	1.0
Hue Concentration	0.974
Complementary Balance	0.005
Analogous Dominance	0.987
Temperature Bias	0.978

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 Octaves - Reflexions 13 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0677.html

[2] Quercy, A. (2024). C Octaves - Reflexions 13 - Gallery. https://artquamanima.com/en/artworks/2024/01/c-octaves-reflexions-13_7ji.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)

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