AQC0476

Nanopublication — Computational Image Analysis - AQC0476

by Arnaud Quercy · Reveries · 2023

Claim 1: Computational Image Analysis - AQC0476

> Analysis record [3]: Reveries [1] (AQC0476) [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]: 526x701 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		3F4E5A	15.5	blue-violet	grayish purple
2		28353B	14.6	blue	darkslategray
3		B4C1AC	10.7	yellow-green	silver
4		9B8C7A	10.7	yellow-orange	gray
5		646F79	10.2	blue	grayish purple
6		B2D4E2	9.9	blue	lightblue
7		653427	8.8	red-orange	russet
8		884D41	7.6	red-orange	burnt sienna
9		7A98B7	6.2	blue-violet	lightslategray
10		B56057	5.9	red-orange	indianred
11		C98F95	0.3	red	rosybrown [Accent]
12		0D2021	0.3	blue-green	very dark gray [Accent]
13		A3A7D9	0.3	violet	lightsteelblue [Accent]
14		B2AF72	0.3	yellow	ochre [Accent]
15		3E251C	0.3	orange	very dark gray [Accent]

Color Families:

Family	%
blue	34.7
red-orange	22.2
blue-violet	21.7
yellow-green	10.7
yellow-orange	10.7
red	0.3
blue-green	0.3
violet	0.3
yellow	0.3
orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
C98F95	red	rosybrown	23.8
0D2021	blue-green	very dark gray	8.5
A3A7D9	violet	lightsteelblue	27.5
B2AF72	yellow	ochre	33.0
3E251C	orange	very dark gray	14.9

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.204
Mean Local Roughness	0.036
Roughness Uniformity	0.03
Edge Density	0.145
Mean Gradient Magnitude	0.252
Gradient Variance	0.119
Gradient Smoothness	0.0
Directional Coherence	0.048
Pattern Complexity	0.122
Pattern Repetition	1.0
Detail Frequency Ratio	0.608
Spatial Variation	0.092
Texture Consistency	0.738

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.45
Brightness Variance	0.204
Brightness Uniformity	0.547
Brightness Skewness	0.439
Brightness Entropy	7.488
Rms Contrast	0.204
Michelson Contrast	0.961
Weber Contrast	0.721
Mean Local Contrast	0.035
Contrast Uniformity	0.159
Dynamic Range	0.965
Effective Dynamic Range	0.624
Shadow Percentage	37.15
Midtone Percentage	43.063
Highlight Percentage	19.788
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.235
Fine Contrast	0.023
Medium Contrast	0.045
Coarse Contrast	0.071
Multiscale Contrast Ratio	0.325

Metric	Value
Edge Contrast	0.252
Contrast Clustering	0.262

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.673
Color Clustering	0.754
Color Transition Smoothness	0.31
Transition Uniformity	0.217
Sharp Transition Ratio	0.1
Transition Directionality	0.036
Mean Saturation	0.334
Saturation Variance	0.036
Low Saturation Ratio	0.5
Medium Saturation Ratio	0.46
High Saturation Ratio	0.039
Saturation Clustering	0.999
Hue Concentration	0.056
Complementary Balance	0.242
Analogous Dominance	0.496
Temperature Bias	-0.068

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 (2023). Reveries — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0476.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2023/01/reveries_5dc.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)

20677b295a7755730aeb41343f3ded32a669c3ecef13a452cd-d2288d6d8b9053

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