AQC0543

Nanopublication — Computational Image Analysis - AQC0543

by Arnaud Quercy · Meditations - Variation 1 · 2024

Claim 1: Computational Image Analysis - AQC0543

> The artwork Meditations [1] - Variation 1 (AQC0543) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

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]: 1185x1580 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		DE975C	29.6	orange	sandybrown
2		055B8C	19.0	blue-violet	grayish purple
3		D9824D	12.5	orange	peru
4		DAA385	11.1	orange	tan
5		898175	9.9	yellow-orange	gray
6		DFAD99	8.2	orange	burlywood
7		2879A3	5.7	blue	grayish purple
8		573E33	1.5	orange	dark brown
9		18141A	1.5	black	black
10		B34947	0.9	red-orange	burnt sienna
11		558690	0.3	blue-green	blue gray [Accent]
12		003678	0.3	violet	indigo [Accent]
13		B1A580	0.3	yellow	rosybrown [Accent]

Color Families:

Family	%
orange	63.0
blue-violet	19.0
yellow-orange	9.9
blue	5.7
black	1.5
red-orange	0.9
blue-green	0.3
violet	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
558690	blue-green	blue gray	17.8
003678	violet	indigo	44.0
B1A580	yellow	rosybrown	21.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.17
Mean Local Roughness	0.016
Roughness Uniformity	0.024
Edge Density	0.044
Mean Gradient Magnitude	0.124
Gradient Variance	0.055
Gradient Smoothness	0.0
Directional Coherence	0.03
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.624
Spatial Variation	0.136
Texture Consistency	0.503

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.54
Brightness Variance	0.17
Brightness Uniformity	0.685
Brightness Skewness	-0.835
Brightness Entropy	6.874
Rms Contrast	0.17
Michelson Contrast	1.0
Weber Contrast	0.619
Mean Local Contrast	0.017
Contrast Uniformity	0.0
Dynamic Range	0.957
Effective Dynamic Range	0.471
Shadow Percentage	20.68
Midtone Percentage	54.453
Highlight Percentage	24.867
Shadow Clipping	0.03
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.009
Medium Contrast	0.022
Coarse Contrast	0.035
Multiscale Contrast Ratio	0.27
Edge Contrast	0.124
Contrast Clustering	0.497

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.779
Color Clustering	0.418
Color Transition Smoothness	0.666
Transition Uniformity	0.608
Sharp Transition Ratio	0.1
Transition Directionality	0.036
Mean Saturation	0.588
Saturation Variance	0.063
Low Saturation Ratio	0.126
Medium Saturation Ratio	0.624
High Saturation Ratio	0.25
Saturation Clustering	0.998
Hue Concentration	0.423
Complementary Balance	0.284
Analogous Dominance	0.713
Temperature Bias	0.428

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). Meditations - Variation 1 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0543.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/meditations-variation-1_63e.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)

b56614db9b93d58c9f35c857768a8ae27664ad4746558d-b43d9a5f72c9801582

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