

Nanopublication – Computational Image Analysis – AQC0542

by Arnaud Quercy · Meditations · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0542

The artwork *Meditations* (AQC0542) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-10-03. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

CONTEXT

Analysis performed according to IDS-CMP-2025 [3] includes four metric categories: (a) Color distribution via k-means (10 colors), (b) Texture analysis using Haralick features, (c) Brightness and contrast measurements, (d) Spatial pattern characterization. Source image: 3024x4032 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		C5AC8F	18.1	orange	tan
2		BBA084	17.8	orange	rosybrown
3		4E3133	13.7	red-orange	darkslategray
4		D1B99C	12.7	yellow-orange	burlywood
5		B09377	12.0	orange	ochre
6		5D3F40	10.7	red-orange	dark brown
7		A08269	5.6	orange	gray
8		E1CCAE	5.4	yellow-orange	wheat
9		715351	3.5	red-orange	dimgray
10		20100B	0.5	red-orange	black
11		325973	0.3	blue	grayish purple [Accent]
12		0E1737	0.3	violet	very dark purple [Accent]

Color Families:

Family	%
orange	53.5
red-orange	28.4
yellow-orange	18.0
blue	0.3
violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
325973	blue	grayish purple	19.9
0E1737	violet	very dark purple	23.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.197
Mean Local Roughness	0.009
Roughness Uniformity	0.005
Edge Density	0.009
Mean Gradient Magnitude	0.085
Gradient Variance	0.006
Gradient Smoothness	0.078
Directional Coherence	0.03
Pattern Complexity	0.112
Pattern Repetition	1.0
Detail Frequency Ratio	0.588
Spatial Variation	0.178
Texture Consistency	0.492

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.556
Brightness Variance	0.197
Brightness Uniformity	0.646
Brightness Skewness	-0.708
Brightness Entropy	6.945
Rms Contrast	0.197
Michelson Contrast	1.0
Weber Contrast	0.675
Mean Local Contrast	0.01
Contrast Uniformity	0.39
Dynamic Range	0.988
Effective Dynamic Range	0.557
Shadow Percentage	25.566
Midtone Percentage	35.781
Highlight Percentage	38.653
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.012
Coarse Contrast	0.022
Multiscale Contrast Ratio	0.213
Edge Contrast	0.085
Contrast Clustering	0.508

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.748
Color Clustering	0.836
Color Transition Smoothness	0.781
Transition Uniformity	0.961
Sharp Transition Ratio	0.1
Transition Directionality	0.037
Mean Saturation	0.306
Saturation Variance	0.005
Low Saturation Ratio	0.495
Medium Saturation Ratio	0.502
High Saturation Ratio	0.003
Saturation Clustering	1.0
Hue Concentration	0.959
Complementary Balance	0.002
Analogous Dominance	0.997
Temperature Bias	0.995

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 Ideamorphic Studies' computational imaging systems.

REFERENCES

[1] Quercy, A. (2024). Meditations - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0542.html>

[2] Quercy, A. (2025). ORCID <https://orcid.org/0009-0000-2662-7790>

[3] Quercy, A. (2026). Computational Image Analysis Standard. <https://ideamorphism.org/en/measurements/2025/09/ids-cmp-2025-computational-image-analysis-standard-5dq9.html>

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

531804c809b3a51a03a4dd6427ab2893d26a1c7b1a2af0802895ab152ab9b5a3

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