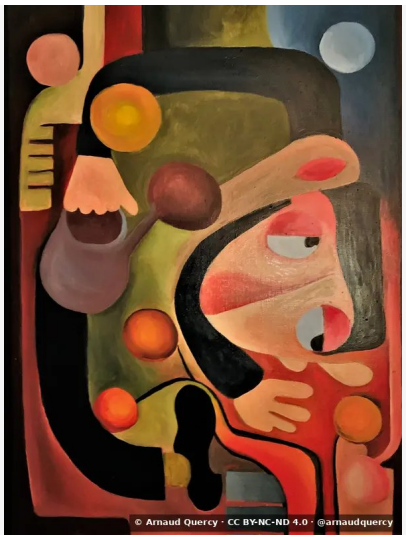
AQC0339 | NAN-COL000488

Nanopublication — Computational Image Analysis - AQC0339

by Arnaud Quercy · The Monk's garden · 2022



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0339

Computational image analysis of artwork The Monk's garden (AQC0339) [1] by Arnaud Quercy [2], performed according to IDS-CMP-2025 [3], using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 2025-10-03.

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: 2760x3681 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		090604	19.0	black	black
2		755B37	12.0	yellow-orange	dark brown
3		4D4434	11.8	yellow-orange	dark brown
4		D98F5F	10.7	orange	darksalmon
5		30271E	10.6	yellow-orange	very dark gray
6		D05E31	8.8	orange	chocolate
7		B17F3F	8.6	orange	peru
8		B43525	8.0	red-orange	brown
9		7F2C20	7.9	red-orange	russet
10		91948C	2.5	gray	gray
11		495F6A	0.3	blue	dimgray [Accent]
12		BCAA4E	0.3	yellow	ochre [Accent]

Color Families:

Family	%
yellow-orange	34.4
orange	28.1
black	19.0
red-orange	15.9
gray	2.5
blue	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
495F6A	blue	dimgray	10.3
BCAA4E	yellow	ochre	49.3

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.199
Mean Local Roughness	0.019
Roughness Uniformity	0.01
Edge Density	0.059
Mean Gradient Magnitude	0.135
Gradient Variance	0.014
Gradient Smoothness	0.116
Directional Coherence	0.026
Pattern Complexity	0.136
Pattern Repetition	1.0
Detail Frequency Ratio	0.632
Spatial Variation	0.095
Texture Consistency	0.783

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.319
Brightness Variance	0.199
Brightness Uniformity	0.375
Brightness Skewness	0.013
Brightness Entropy	7.344
Rms Contrast	0.199
Michelson Contrast	1.0
Weber Contrast	0.967
Mean Local Contrast	0.018
Contrast Uniformity	0.459
Dynamic Range	0.914
Effective Dynamic Range	0.627
Shadow Percentage	52.688
Midtone Percentage	44.59
Highlight Percentage	2.723
Shadow Clipping	0.329
Highlight Clipping	0.0
Tonal Balance	0.026
Fine Contrast	0.013
Medium Contrast	0.022
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.135
Contrast Clustering	0.217

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.701
Color Clustering	0.506
Color Transition Smoothness	0.641
Transition Uniformity	0.888
Sharp Transition Ratio	0.1
Transition Directionality	0.035
Mean Saturation	0.521
Saturation Variance	0.073
Low Saturation Ratio	0.225
Medium Saturation Ratio	0.498
High Saturation Ratio	0.276
Saturation Clustering	0.996
Hue Concentration	0.903
Complementary Balance	0.026
Analogous Dominance	0.963
Temperature Bias	0.917

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. (2022). The Monk's garden - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0339.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)

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