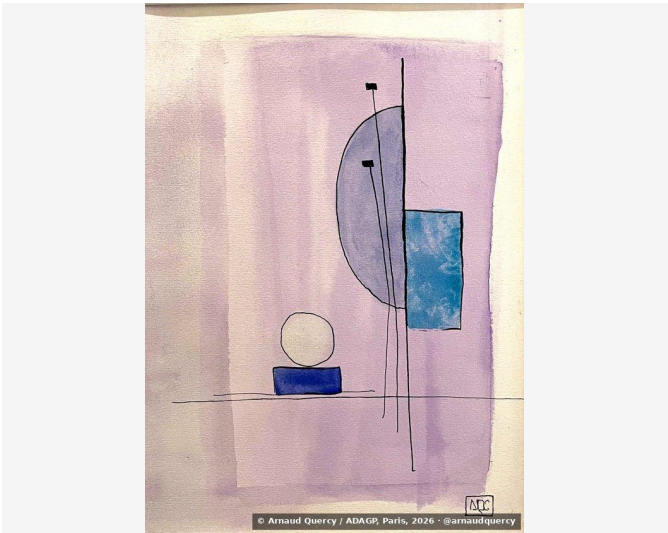


AQC1135

Nanopublication – Computational Image Analysis – AQC1135

by Arnaud Quercy · Watercolor Study in Ab Octaves No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1135

K-means clustering (10 colors) performed on artwork Watercolor Study in Ab Octaves No. 1 (AQC1135) [1] by Arnaud Quercy [2] on 2026-10-02, according to IDS-CMP-2025 [3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

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: 2026-10-02.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		867A74	23.3	orange	gray
2		7A6E6B	20.4	red-orange	dimgray
3		92897D	14.3	yellow-orange	grey
4		A0998A	13.3	yellow-orange	rosybrown
5		AEA795	12.3	yellow	steel gray
6		696066	6.8	red-violet	dusty mauve
7		B8B5A6	6.4	yellow	steel gray
8		304962	1.4	blue-violet	grayish purple
9		554B42	1.1	orange	dark brown
10		0A060B	0.7	black	black
11		162151	0.3	violet	very dark purple [Accent]

Color Families:

Family	%
yellow-orange	27.7
orange	24.3
red-orange	20.4
yellow	18.7
red-violet	6.8
blue-violet	1.4
black	0.7
violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
162151	violet	very dark purple	34.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.108
Mean Local Roughness	0.018
Roughness Uniformity	0.009
Edge Density	0.011
Mean Gradient Magnitude	0.108
Gradient Variance	0.014
Gradient Smoothness	0.0
Directional Coherence	0.004
Pattern Complexity	0.137
Pattern Repetition	1.0
Detail Frequency Ratio	0.647
Spatial Variation	0.076
Texture Consistency	0.74

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.524
Brightness Variance	0.108
Brightness Uniformity	0.795
Brightness Skewness	-0.599
Brightness Entropy	6.614
Rms Contrast	0.108
Michelson Contrast	1.0
Weber Contrast	0.38
Mean Local Contrast	0.016
Contrast Uniformity	0.371
Dynamic Range	0.965
Effective Dynamic Range	0.31
Shadow Percentage	2.861
Midtone Percentage	86.004
Highlight Percentage	11.135
Shadow Clipping	0.048
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.02
Coarse Contrast	0.025
Multiscale Contrast Ratio	0.538
Edge Contrast	0.108
Contrast Clustering	0.26

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.714
Color Clustering	0.83
Color Transition Smoothness	0.721
Transition Uniformity	0.899
Sharp Transition Ratio	0.1
Transition Directionality	0.003
Mean Saturation	0.152
Saturation Variance	0.006
Low Saturation Ratio	0.974
Medium Saturation Ratio	0.02
High Saturation Ratio	0.006
Saturation Clustering	0.999
Hue Concentration	0.401
Complementary Balance	0.086
Analogous Dominance	0.677
Temperature Bias	0.441

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. (2026). Watercolor Study in Ab Octaves No. 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1135.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/2025/11/ids-cmp-2025-computational-image-analysis-standard-5dq9.html>

WHERE THIS WORK LIVES

Series: Octaves
Collection: Harmonic Crossing

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

372235147d52d6e483b70e8815153d9627ca0722ca0cf799cd72847ac0d43293

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Artist Arnaud Quercy
Date 2026
Collection Harmonic Crossing
Certificate 20261002-0186
Asset code AQC1135
Version 1
Published 2026-10-02

ISSN: applied for – U.S. ISSN Center, Library of Congress

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Published by Art Quam Anima Publishing New York,
an assumed name of AQA Publishing LLC

c/o Northwest Registered Agent, 418 Broadway Ste N
Albany, NY 12207, USA
+1 917-764-5470

NY DOS ID 7624376 · Assumed Name ID 7658709

publishing.artquamanima.com

Last updated: 2026-10-12

Persistent URI: <https://ideamorphism.org/en/nanopubs/2026/10/AQC1135-computational-image-analysis-aqc1135.pdf>