AQC1053 | NAN-COL000616

Nanopublication — Computational Image Analysis - AQC1053

by Arnaud Quercy · Watercolor Study in F Minor No. 2 · 2026

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1053

Analysis record: Watercolor Study in F Minor No. 2 (AQC1053) [1] by Arnaud Quercy [2], per IDS-CMP-2025 [3]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2026-07-13.

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: 1564x2085 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		798884	21.6	green	gray
2		707E7B	18.0	green	grey
3		535B60	15.2	gray	dimgray
4		636569	8.9	gray	grayish purple
5		474E54	7.6	blue-violet	grayish purple
6		1D0916	7.0	red-violet	very dark gray
7		4F1E07	7.0	orange	very dark orange
8		070408	6.3	black	black
9		301321	5.5	red	very dark red
10		091328	2.9	blue-violet	very dark indigo
11		A29A86	0.3	yellow-orange	rosybrown [Accent]
12		A5A08E	0.3	yellow	rosybrown [Accent]

Color Families:

Family	%
green	39.6
gray	24.1
blue-violet	10.5
red-violet	7.0
orange	7.0
black	6.3
red	5.5
yellow-orange	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
A29A86	yellow-orange	rosybrown	12.0
A5A08E	yellow	rosybrown	10.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.172
Mean Local Roughness	0.016
Roughness Uniformity	0.011
Edge Density	0.017
Mean Gradient Magnitude	0.117
Gradient Variance	0.02
Gradient Smoothness	0.0
Directional Coherence	0.01
Pattern Complexity	0.131
Pattern Repetition	1.0
Detail Frequency Ratio	0.616
Spatial Variation	0.12
Texture Consistency	0.62

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.336
Brightness Variance	0.172
Brightness Uniformity	0.489
Brightness Skewness	-0.588
Brightness Entropy	6.747
Rms Contrast	0.172
Michelson Contrast	1.0
Weber Contrast	0.886
Mean Local Contrast	0.016
Contrast Uniformity	0.275
Dynamic Range	0.722
Effective Dynamic Range	0.498
Shadow Percentage	37.516
Midtone Percentage	62.481
Highlight Percentage	0.003
Shadow Clipping	0.154
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.02
Coarse Contrast	0.028
Multiscale Contrast Ratio	0.352
Edge Contrast	0.117
Contrast Clustering	0.38

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.743
Color Clustering	0.89
Color Transition Smoothness	0.681
Transition Uniformity	0.841
Sharp Transition Ratio	0.1
Transition Directionality	0.011
Mean Saturation	0.295
Saturation Variance	0.087
Low Saturation Ratio	0.735
Medium Saturation Ratio	0.097
High Saturation Ratio	0.169
Saturation Clustering	0.996
Hue Concentration	0.519
Complementary Balance	0.092
Analogous Dominance	0.601
Temperature Bias	0.446

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 F Minor No. 2 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1053.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)

966753865b12de8f5520fee2db0f8f3be32becb3a7cb6b66ee5564c8524db70c

Artist Arnaud Quercy
Date 2026
Certificate 20260713-0105
Asset code AQC1053
Identifier NAN-COL000616
Version 1
Published 2026-07-13

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

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: 2026-09-15

Persistent URI: https://ideamorphism.org/en/nanopubs/2026/07/AQC1053-computational-image-analysis-aqc1053.pdf