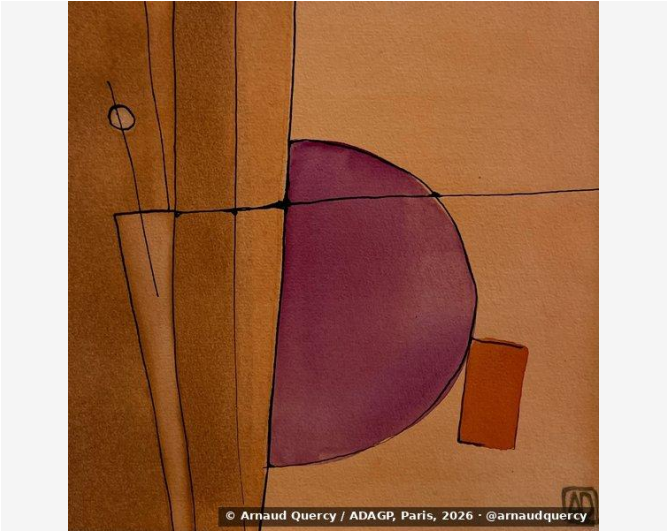


Nanopublication – Computational Image Analysis – AQC1069

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1069

Computational image analysis of artwork Watercolor Study in F Major No. 2 (AQC1069) [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 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: 1773x1773 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		A96B3C	19.0	orange	burnt sienna
2		B47546	18.1	orange	peru
3		7F3E0D	14.0	orange	russet
4		6F2734	10.1	red-orange	russet
5		6E3506	9.8	orange	russet
6		9F5E29	9.2	orange	burnt sienna
7		8C4D19	9.0	orange	russet
8		7C383E	7.8	red-orange	russet
9		170301	1.9	red-orange	black
10		4A1E14	1.2	red-orange	very dark red

Color Families:

Family	%
orange	79.1
red-orange	20.9

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.114
Mean Local Roughness	0.017
Roughness Uniformity	0.011
Edge Density	0.02
Mean Gradient Magnitude	0.122
Gradient Variance	0.021
Gradient Smoothness	0.0
Directional Coherence	0.006
Pattern Complexity	0.129
Pattern Repetition	1.0
Detail Frequency Ratio	0.622
Spatial Variation	0.079
Texture Consistency	0.607

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.372
Brightness Variance	0.114
Brightness Uniformity	0.694
Brightness Skewness	-0.401
Brightness Entropy	6.494
Rms Contrast	0.114
Michelson Contrast	1.0
Weber Contrast	0.515
Mean Local Contrast	0.017
Contrast Uniformity	0.21
Dynamic Range	0.675
Effective Dynamic Range	0.302
Shadow Percentage	43.762
Midtone Percentage	56.238
Highlight Percentage	0.0
Shadow Clipping	0.007
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.021
Coarse Contrast	0.03
Multiscale Contrast Ratio	0.364
Edge Contrast	0.122
Contrast Clustering	0.393

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.724
Color Clustering	0.35
Color Transition Smoothness	0.671
Transition Uniformity	0.822
Sharp Transition Ratio	0.1
Transition Directionality	0.008
Mean Saturation	0.726
Saturation Variance	0.019
Low Saturation Ratio	0.001
Medium Saturation Ratio	0.554
High Saturation Ratio	0.444
Saturation Clustering	0.999
Hue Concentration	0.972
Complementary Balance	0.0
Analogous Dominance	0.999
Temperature Bias	0.999

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 Major No. 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1069.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)

45cfea969e339e56b996bdd45ce53abc7d0ed1fd23be9d7f712fbec080389601

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