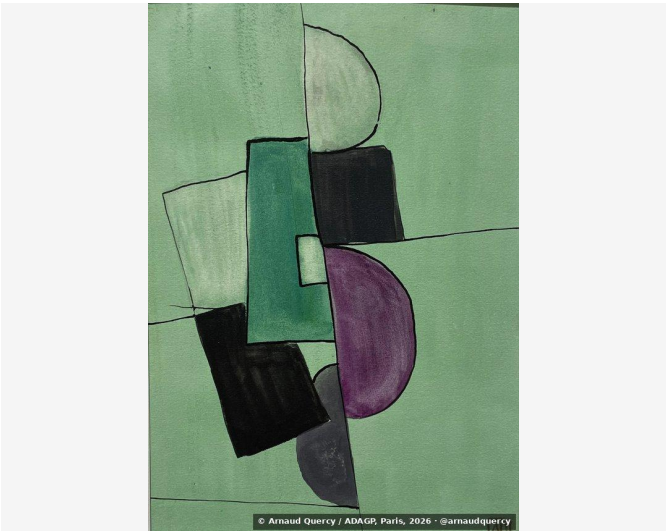


Nanopublication – Computational Image Analysis – AQC1088

by Arnaud Quercy · Watercolor Study in F# Major No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1088

Analysis record: Watercolor Study in F# Major No. 1 (AQC1088) ^[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: 1674x2396 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		7EA17C	26.5	yellow-green	gray
2		739672	19.9	yellow-green	grey
3		8BAC88	19.9	yellow-green	darkseagreen
4		9DB797	7.1	yellow-green	steel gray
5		0D0E0D	6.6	black	black
6		1D2120	4.7	gray	very dark gray
7		5F445A	4.3	red-violet	dusty mauve
8		3D363D	4.3	red-violet	dusty mauve
9		316B51	3.7	yellow-green	darkslategray
10		477D61	3.0	yellow-green	seagreen

Color Families:

Family	%
yellow-green	80.0
red-violet	8.6
black	6.6
gray	4.7

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.182
Mean Local Roughness	0.02
Roughness Uniformity	0.015
Edge Density	0.048
Mean Gradient Magnitude	0.148
Gradient Variance	0.035
Gradient Smoothness	0.0
Directional Coherence	0.002
Pattern Complexity	0.137
Pattern Repetition	1.0
Detail Frequency Ratio	0.623
Spatial Variation	0.116
Texture Consistency	0.401

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.488
Brightness Variance	0.182
Brightness Uniformity	0.627
Brightness Skewness	-1.29
Brightness Entropy	6.753
Rms Contrast	0.182
Michelson Contrast	1.0
Weber Contrast	0.785
Mean Local Contrast	0.02
Contrast Uniformity	0.159
Dynamic Range	0.89
Effective Dynamic Range	0.596
Shadow Percentage	19.896
Midtone Percentage	75.597
Highlight Percentage	4.507
Shadow Clipping	0.017
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.012
Medium Contrast	0.025
Coarse Contrast	0.035
Multiscale Contrast Ratio	0.343
Edge Contrast	0.148
Contrast Clustering	0.599

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.729
Color Clustering	0.866
Color Transition Smoothness	0.616
Transition Uniformity	0.734
Sharp Transition Ratio	0.1
Transition Directionality	0.002
Mean Saturation	0.237
Saturation Variance	0.013
Low Saturation Ratio	0.887
Medium Saturation Ratio	0.109
High Saturation Ratio	0.005
Saturation Clustering	0.998
Hue Concentration	0.825
Complementary Balance	0.028
Analogous Dominance	0.912
Temperature Bias	-0.258

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. 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1088.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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