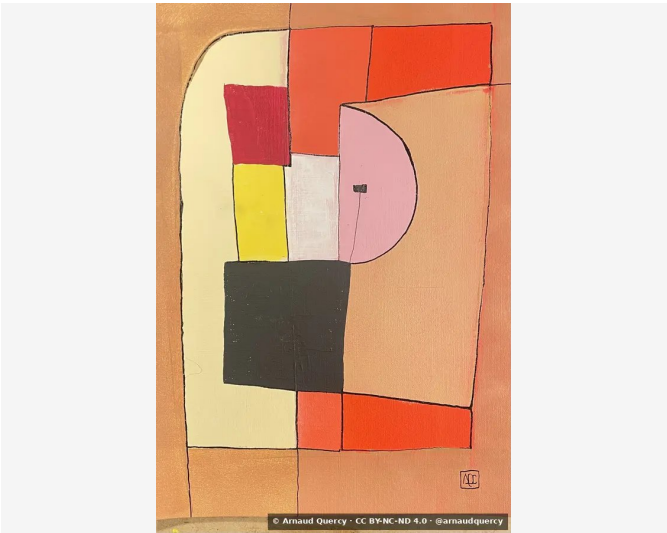


Nanopublication – Computational Image Analysis – AQC0929

by Arnaud Quercy · A Minor – Research on Harmony – Variations 13 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0929

Computational image analysis of artwork A Minor – Research on Harmony – Variations 13 (AQC0929) ^[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 2025-12-11.

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: 1953x2929 pixels. Analysis date: 2025-12-11.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D58F60	25.3	orange	darksalmon
2		E3A777	24.1	orange	burlywood
3		EDDCAD	15.9	yellow-orange	wheat
4		4D453C	8.7	orange	darkslategray
5		EE4924	7.0	red-orange	orangered
6		E4ACA6	6.2	red-orange	tan
7		E96142	6.1	red-orange	tomato
8		BE3F43	2.7	red-orange	brown
9		EBD43F	2.5	yellow	goldenrod
10		3E180E	1.5	red-orange	very dark red
11		A5717A	0.3	red	gray [Accent]

Color Families:

Family	%
orange	58.1
red-orange	23.5
yellow-orange	15.9
yellow	2.5
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
A5717A	red	gray	22.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.176
Mean Local Roughness	0.018
Roughness Uniformity	0.024
Edge Density	0.058
Mean Gradient Magnitude	0.145
Gradient Variance	0.064
Gradient Smoothness	0.0
Directional Coherence	0.063
Pattern Complexity	0.117
Pattern Repetition	1.0
Detail Frequency Ratio	0.627
Spatial Variation	0.104
Texture Consistency	0.711

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.633
Brightness Variance	0.176
Brightness Uniformity	0.721
Brightness Skewness	-0.795
Brightness Entropy	7.182
Rms Contrast	0.176
Michelson Contrast	1.0
Weber Contrast	0.608
Mean Local Contrast	0.02
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.608
Shadow Percentage	9.988
Midtone Percentage	40.832
Highlight Percentage	49.18
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.009
Medium Contrast	0.025
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.145
Contrast Clustering	0.289

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.754
Color Clustering	0.306
Color Transition Smoothness	0.639
Transition Uniformity	0.577
Sharp Transition Ratio	0.1
Transition Directionality	0.072
Mean Saturation	0.482
Saturation Variance	0.038
Low Saturation Ratio	0.232
Medium Saturation Ratio	0.608
High Saturation Ratio	0.16
Saturation Clustering	0.999
Hue Concentration	0.972
Complementary Balance	0.0
Analogous Dominance	1.0
Temperature Bias	1.0

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. (2025). A Minor - Research on Harmony - Variations 13 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0929.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)

a4656ff9ea13b615f53c2ac0136dd61e5227abd4c3c79429a816c4f222b9827e

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