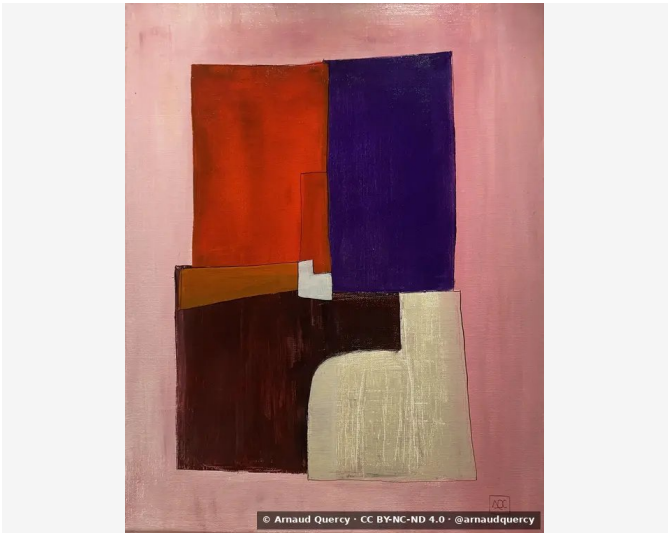


Nanopublication – Computational Image Analysis – AQC0583

by Arnaud Quercy · C minor – Research on Harmony · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0583

K-means clustering (10 colors) performed on artwork C minor – Research on Harmony (AQC0583) [1] by Arnaud Quercy [2] on 2025-10-03, 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: 2425x3074 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		CB8E8B	14.8	red-orange	rosybrown
2		280C47	13.2	violet	very dark purple
3		30100C	12.7	red-orange	very dark red
4		B97F7B	11.8	red-orange	palevioletred
5		AC2A09	9.3	red-orange	firebrick
6		E3B8AE	9.1	red-orange	lightpink
7		CCA898	8.9	orange	tan
8		9F6763	8.6	red-orange	indianred
9		AB987A	6.4	yellow-orange	ochre
10		84300E	5.2	orange	russet
11		54285E	0.3	red-violet	dusty mauve [Accent]
12		5E3138	0.3	red	dark brown [Accent]

Color Families:

Family	%
red-orange	66.4
orange	14.0
violet	13.2
yellow-orange	6.4
red-violet	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
54285E	red-violet	dusty mauve	38.4
5E3138	red	dark brown	21.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.241
Mean Local Roughness	0.017
Roughness Uniformity	0.019
Edge Density	0.064
Mean Gradient Magnitude	0.126
Gradient Variance	0.033
Gradient Smoothness	0.0
Directional Coherence	0.051
Pattern Complexity	0.138
Pattern Repetition	1.0
Detail Frequency Ratio	0.648
Spatial Variation	0.147
Texture Consistency	0.526

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.441
Brightness Variance	0.241
Brightness Uniformity	0.454
Brightness Skewness	-0.294
Brightness Entropy	7.22
Rms Contrast	0.241
Michelson Contrast	1.0
Weber Contrast	0.87
Mean Local Contrast	0.018
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.682
Shadow Percentage	38.664
Midtone Percentage	42.984
Highlight Percentage	18.352
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.023
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.126
Contrast Clustering	0.474

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.75
Color Clustering	0.694
Color Transition Smoothness	0.674
Transition Uniformity	0.781
Sharp Transition Ratio	0.1
Transition Directionality	0.058
Mean Saturation	0.52
Saturation Variance	0.077
Low Saturation Ratio	0.285
Medium Saturation Ratio	0.355
High Saturation Ratio	0.36
Saturation Clustering	0.999
Hue Concentration	0.834
Complementary Balance	0.0
Analogous Dominance	0.865
Temperature Bias	0.867

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. (2024). C minor - Research on Harmony - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0583.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)

6d9d6ba300ce2609eefae9e3f1fa710ce3ab2d71ddd8d1a4c9385924cc0fcc67

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