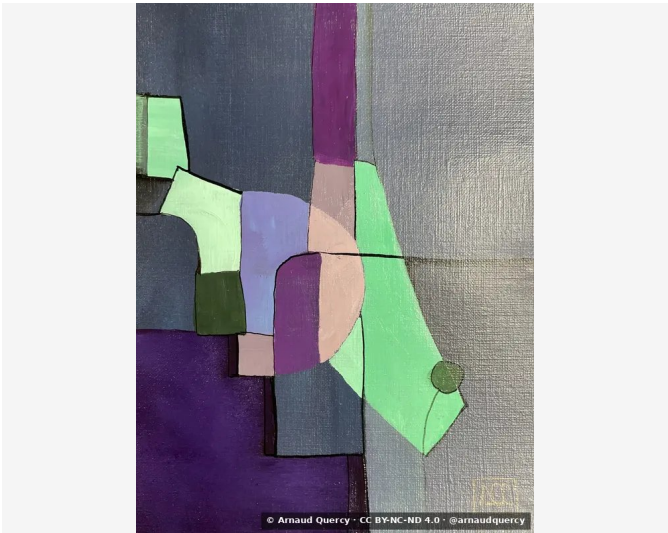


Nanopublication – Computational Image Analysis – AQC0590

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



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0590

Computational image analysis of artwork Eb minor – Research on Harmony (AQC0590) [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 2025-10-03.

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: 2651x3535 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		484F5C	18.8	blue-violet	grayish purple
2		3A1C50	13.8	violet	very dark purple
3		9F9BA4	12.6	violet	steel gray
4		878885	12.1	gray	gray
5		6D6E6E	9.5	gray	dimgray
6		8EDF9A	8.7	yellow-green	lightgreen
7		C9C1B4	8.3	yellow-orange	silver
8		E2ECD8	6.3	yellow-green	gainsboro
9		6E386D	5.7	red-violet	dusty mauve
10		231E1D	4.2	gray	very dark gray
11		E3D598	0.3	yellow	khaki [Accent]
12		BD7E99	0.3	red	rosybrown [Accent]

Color Families:

Family	%
violet	26.4
gray	25.7
blue-violet	18.8
yellow-green	15.0
yellow-orange	8.3
red-violet	5.7
yellow	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
E3D598	yellow	khaki	32.2
BD7E99	red	rosybrown	28.3

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.237
Mean Local Roughness	0.041
Roughness Uniformity	0.045
Edge Density	0.139
Mean Gradient Magnitude	0.307
Gradient Variance	0.185
Gradient Smoothness	0.0
Directional Coherence	0.039
Pattern Complexity	0.123
Pattern Repetition	1.0
Detail Frequency Ratio	0.662
Spatial Variation	0.164
Texture Consistency	0.603

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.474
Brightness Variance	0.237
Brightness Uniformity	0.5
Brightness Skewness	0.255
Brightness Entropy	7.73
Rms Contrast	0.237
Michelson Contrast	1.0
Weber Contrast	0.788
Mean Local Contrast	0.043
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.741
Shadow Percentage	36.514
Midtone Percentage	38.499
Highlight Percentage	24.987
Shadow Clipping	0.019
Highlight Clipping	0.363
Tonal Balance	0.375
Fine Contrast	0.025
Medium Contrast	0.053
Coarse Contrast	0.078
Multiscale Contrast Ratio	0.315
Edge Contrast	0.307
Contrast Clustering	0.397

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.713
Color Clustering	0.869
Color Transition Smoothness	0.224
Transition Uniformity	0.0
Sharp Transition Ratio	0.1
Transition Directionality	0.045
Mean Saturation	0.27
Saturation Variance	0.048
Low Saturation Ratio	0.675
Medium Saturation Ratio	0.278
High Saturation Ratio	0.047
Saturation Clustering	0.999
Hue Concentration	0.401
Complementary Balance	0.15
Analogous Dominance	0.57
Temperature Bias	-0.311

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). Eb minor - Research on Harmony - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0590.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)

2573982014ea0b33133f27f14362e83e8e069574e1660e90f40b9cd177a5d5f6

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