

Nanopublication – Computational Image Analysis – AQC0729

by Arnaud Quercy · Eb Minor – Research on Harmony – Variation 5 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0729

The artwork Eb Minor – Research on Harmony – Variation 5 (AQC0729) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-10-03. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

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: 2953x3937 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D2CAC1	18.6	yellow-orange	lightgray
2		513B68	17.5	violet	dusty mauve
3		8F6EB6	14.0	violet	mediumpurple
4		7ACEAA	13.3	yellow-green	mediumaquamarine
5		81DABE	11.0	green	aquamarine
6		9E7FCD	10.1	violet	mediumorchid
7		5E4B7B	5.1	violet	dusty mauve
8		182426	4.6	blue-green	very dark gray
9		2E4F4A	3.1	green	darkslategray
10		7F878F	2.8	blue-violet	grayish purple
11		785D4F	0.3	orange	dimgray [Accent]

Color Families:

Family	%
violet	46.7
yellow-orange	18.6
green	14.0
yellow-green	13.3
blue-green	4.6
blue-violet	2.8
orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
785D4F	orange	dimgray	15.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.212
Mean Local Roughness	0.01
Roughness Uniformity	0.016
Edge Density	0.016
Mean Gradient Magnitude	0.083
Gradient Variance	0.032
Gradient Smoothness	0.0
Directional Coherence	0.058
Pattern Complexity	0.121
Pattern Repetition	1.0
Detail Frequency Ratio	0.609
Spatial Variation	0.15
Texture Consistency	0.511

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.546
Brightness Variance	0.212
Brightness Uniformity	0.611
Brightness Skewness	-0.364
Brightness Entropy	7.077
Rms Contrast	0.212
Michelson Contrast	1.0
Weber Contrast	0.667
Mean Local Contrast	0.011
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.6
Shadow Percentage	27.371
Midtone Percentage	30.459
Highlight Percentage	42.17
Shadow Clipping	0.007
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.014
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.083
Contrast Clustering	0.489

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.795
Color Clustering	0.811
Color Transition Smoothness	0.783
Transition Uniformity	0.777
Sharp Transition Ratio	0.1
Transition Directionality	0.074
Mean Saturation	0.353
Saturation Variance	0.02
Low Saturation Ratio	0.238
Medium Saturation Ratio	0.749
High Saturation Ratio	0.013
Saturation Clustering	0.999
Hue Concentration	0.599
Complementary Balance	0.002
Analogous Dominance	0.616
Temperature Bias	-0.382

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 - Variation 5 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0729.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

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