

Nanopublication – Computational Image Analysis –
AQC0858

by Arnaud Quercy · E Minor – Research on Harmony – Variation 4 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0858

Analysis record: E Minor – Research on Harmony – Variation 4 (AQC0858) ^[1] by Arnaud Quercy ^[2], per IDS-CMP-2025 ^[3]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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: 2373x3164 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E6CDB3	33.1	orange	wheat
2		9ABCA9	14.1	yellow-green	steel gray
3		86AB97	11.9	yellow-green	darkseagreen
4		D9D9D7	11.6	white	gainsboro
5		C4CBC2	9.6	yellow-green	silver
6		AD6B43	6.6	orange	burnt sienna
7		BF8056	5.7	orange	peru
8		322E2B	3.0	gray	very dark gray
9		A3A77A	2.4	yellow-green	ochre
10		555450	1.9	gray	dimgray
11		E7CC86	0.3	yellow-orange	burlywood [Accent]
12		CB9F95	0.3	red-orange	rosybrown [Accent]
13		C4C28B	0.3	yellow	tan [Accent]

Color Families:

Family	%
orange	45.4
yellow-green	38.0
white	11.6
gray	4.9
yellow-orange	0.3
red-orange	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
E7CC86	yellow-orange	burlywood	38.0
CB9F95	red-orange	rosybrown	18.6
C4C28B	yellow	tan	29.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.158
Mean Local Roughness	0.011
Roughness Uniformity	0.015
Edge Density	0.029
Mean Gradient Magnitude	0.103
Gradient Variance	0.029
Gradient Smoothness	0.0
Directional Coherence	0.029
Pattern Complexity	0.111
Pattern Repetition	1.0
Detail Frequency Ratio	0.596
Spatial Variation	0.089
Texture Consistency	0.585

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.709
Brightness Variance	0.158
Brightness Uniformity	0.777
Brightness Skewness	-1.467
Brightness Entropy	6.713
Rms Contrast	0.158
Michelson Contrast	1.0
Weber Contrast	0.403
Mean Local Contrast	0.013
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.435
Shadow Percentage	4.148
Midtone Percentage	28.784
Highlight Percentage	67.068
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.006
Medium Contrast	0.016
Coarse Contrast	0.029
Multiscale Contrast Ratio	0.208
Edge Contrast	0.103
Contrast Clustering	0.415

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.732
Color Clustering	0.78
Color Transition Smoothness	0.738
Transition Uniformity	0.803
Sharp Transition Ratio	0.1
Transition Directionality	0.038
Mean Saturation	0.224
Saturation Variance	0.026
Low Saturation Ratio	0.835
Medium Saturation Ratio	0.162
High Saturation Ratio	0.003
Saturation Clustering	1.0
Hue Concentration	0.597
Complementary Balance	0.009
Analogous Dominance	0.69
Temperature Bias	0.38

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). E Minor - Research on Harmony - Variation 4 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0858.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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