

Nanopublication – Computational Image Analysis – AQC0857

by Arnaud Quercy · E Major – Research on Harmony – Variation 8 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0857

The artwork E Major – Research on Harmony – Variation 8 (AQC0857) [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: 2293x3028 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E1D2A6	29.9	yellow-orange	palegoldenrod
2		E1CF94	15.9	yellow-orange	burlywood
3		C4CCD7	15.8	blue-violet	lightgray
4		B7BFCD	10.9	blue-violet	silver
5		D8DBDB	7.6	white	gainsboro
6		BDBF93	5.9	yellow	tan
7		9EAB83	5.4	yellow-green	darkseagreen
8		DCC478	5.1	yellow-orange	ochre
9		39382F	1.9	yellow	darkslategray
10		676458	1.5	yellow	dimgray
11		A77560	0.3	orange	indianred [Accent]

Color Families:

Family	%
yellow-orange	50.9
blue-violet	26.7
yellow	9.3
white	7.6
yellow-green	5.4
orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
A77560	orange	indianred	25.5

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.106
Mean Local Roughness	0.009
Roughness Uniformity	0.013
Edge Density	0.012
Mean Gradient Magnitude	0.077
Gradient Variance	0.023
Gradient Smoothness	0.0
Directional Coherence	0.058
Pattern Complexity	0.108
Pattern Repetition	1.0
Detail Frequency Ratio	0.599
Spatial Variation	0.033
Texture Consistency	0.62

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.775
Brightness Variance	0.106
Brightness Uniformity	0.863
Brightness Skewness	-3.58
Brightness Entropy	5.847
Rms Contrast	0.106
Michelson Contrast	1.0
Weber Contrast	0.172
Mean Local Contrast	0.01
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.231
Shadow Percentage	2.141
Midtone Percentage	4.954
Highlight Percentage	92.905
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.012
Coarse Contrast	0.022
Multiscale Contrast Ratio	0.217
Edge Contrast	0.077
Contrast Clustering	0.38

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.77
Color Clustering	0.594
Color Transition Smoothness	0.807
Transition Uniformity	0.848
Sharp Transition Ratio	0.1
Transition Directionality	0.069
Mean Saturation	0.22
Saturation Variance	0.014
Low Saturation Ratio	0.79
Medium Saturation Ratio	0.21
High Saturation Ratio	0.0
Saturation Clustering	1.0
Hue Concentration	0.973
Complementary Balance	0.001
Analogous Dominance	0.997
Temperature Bias	0.86

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 Major - Research on Harmony - Variation 8 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0857.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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