

Nanopublication – Computational Image Analysis – AQC0907

by Arnaud Quercy · E Major – Research on Harmony – Variations 10 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0907

The artwork E Major – Research on Harmony – Variations 10 (AQC0907) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-12-11. 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: 1901x1901 pixels. Analysis date: 2025-12-11.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E3D922	18.5	yellow	gold
2		7A91B6	16.0	blue-violet	lightslategray
3		5F543F	13.0	yellow-orange	dark brown
4		786B54	12.1	yellow-orange	dimgray
5		67AFDE	9.6	blue	cornflowerblue
6		9BAFCF	8.4	blue-violet	lightsteelblue
7		5F789F	7.4	blue-violet	grayish purple
8		F3DA88	6.9	yellow-orange	khaki
9		E9DEBE	4.2	yellow-orange	wheat
10		3B3424	3.8	yellow-orange	darkslategray
11		191206	0.3	orange	black [Accent]
12		181A07	0.3	yellow-green	very dark gray [Accent]
13		A4CDC8	0.3	green	lightsteelblue [Accent]
14		D2EAED	0.3	blue-green	white [Accent]
15		1E1C2A	0.3	violet	very dark gray [Accent]

Color Families:

Family	%
yellow-orange	40.1
blue-violet	31.8
yellow	18.5
blue	9.6
orange	0.3
yellow-green	0.3
green	0.3
blue-green	0.3
violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
191206	orange	black	6.3
181A07	yellow-green	very dark gray	10.8
A4CDC8	green	lightsteelblue	14.1
D2EAED	blue-green	white	8.1
1E1C2A	violet	very dark gray	9.8

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.19
Mean Local Roughness	0.034
Roughness Uniformity	0.034
Edge Density	0.177
Mean Gradient Magnitude	0.264
Gradient Variance	0.113
Gradient Smoothness	0.0
Directional Coherence	0.013
Pattern Complexity	0.125
Pattern Repetition	1.0
Detail Frequency Ratio	0.673
Spatial Variation	0.111
Texture Consistency	0.662

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.585
Brightness Variance	0.19
Brightness Uniformity	0.675
Brightness Skewness	-0.176
Brightness Entropy	7.442
Rms Contrast	0.19
Michelson Contrast	1.0
Weber Contrast	0.594
Mean Local Contrast	0.038
Contrast Uniformity	0.046
Dynamic Range	1.0
Effective Dynamic Range	0.58
Shadow Percentage	9.379
Midtone Percentage	55.137
Highlight Percentage	35.484
Shadow Clipping	0.005
Highlight Clipping	0.002
Tonal Balance	0.168
Fine Contrast	0.018
Medium Contrast	0.046
Coarse Contrast	0.056
Multiscale Contrast Ratio	0.326
Edge Contrast	0.264
Contrast Clustering	0.338

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.711
Color Clustering	0.501
Color Transition Smoothness	0.324
Transition Uniformity	0.243
Sharp Transition Ratio	0.1
Transition Directionality	0.021
Mean Saturation	0.449
Saturation Variance	0.049
Low Saturation Ratio	0.251
Medium Saturation Ratio	0.559
High Saturation Ratio	0.19
Saturation Clustering	0.998
Hue Concentration	0.18
Complementary Balance	0.227
Analogous Dominance	0.577
Temperature Bias	0.041

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 - Variations 10 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0907.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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