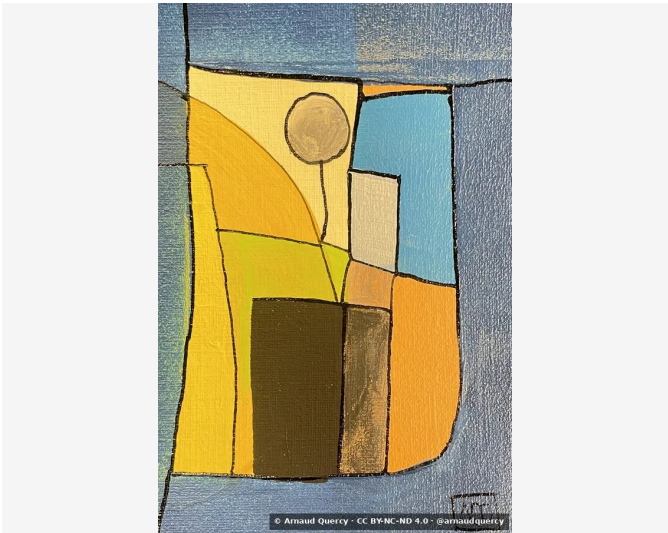


Nanopublication – Computational Image Analysis – AQC0878

by Arnaud Quercy · E Major – Research on Harmony – Variations 9 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0878

K-means clustering (10 colors) performed on artwork E Major – Research on Harmony – Variations 9 (AQC0878) [1] by Arnaud Quercy [2] on 2025-12-11, according to IDS-CMP-2025 [3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

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: 1854x2781 pixels. Analysis date: 2025-12-11.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		EBB42A	23.0	yellow-orange	goldenrod
2		73818A	14.3	blue	blue gray
3		82A1AC	13.4	blue	lightslategray
4		5D461C	11.8	yellow-orange	dark brown
5		58646E	10.1	blue	grayish purple
6		ECCC74	9.1	yellow-orange	burlywood
7		A8B9BE	7.3	blue-green	silver
8		B48E4E	4.0	yellow-orange	peru
9		221507	3.8	orange	very dark gray
10		D8DFE0	3.1	white	gainsboro
11		A5B476	0.3	yellow-green	ochre [Accent]
12		F8DE3B	0.3	yellow	gold [Accent]

Color Families:

Family	%
yellow-orange	47.9
blue	37.9
blue-green	7.3
orange	3.8
white	3.1
yellow-green	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
A5B476	yellow-green	ochre	34.0
F8DE3B	yellow	gold	77.3

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.199
Mean Local Roughness	0.046
Roughness Uniformity	0.042
Edge Density	0.179
Mean Gradient Magnitude	0.367
Gradient Variance	0.201
Gradient Smoothness	0.0
Directional Coherence	0.007
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.646
Spatial Variation	0.083
Texture Consistency	0.903

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.566
Brightness Variance	0.199
Brightness Uniformity	0.648
Brightness Skewness	-0.569
Brightness Entropy	7.552
Rms Contrast	0.199
Michelson Contrast	1.0
Weber Contrast	0.649
Mean Local Contrast	0.051
Contrast Uniformity	0.127
Dynamic Range	1.0
Effective Dynamic Range	0.616
Shadow Percentage	15.23
Midtone Percentage	45.16
Highlight Percentage	39.61
Shadow Clipping	0.012
Highlight Clipping	0.034
Tonal Balance	0.217
Fine Contrast	0.025
Medium Contrast	0.062
Coarse Contrast	0.093
Multiscale Contrast Ratio	0.27
Edge Contrast	0.367
Contrast Clustering	0.097

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.673
Color Clustering	0.641
Color Transition Smoothness	0.064
Transition Uniformity	0.0
Sharp Transition Ratio	0.1
Transition Directionality	0.006
Mean Saturation	0.465
Saturation Variance	0.087
Low Saturation Ratio	0.402
Medium Saturation Ratio	0.276
High Saturation Ratio	0.322
Saturation Clustering	0.997
Hue Concentration	0.444
Complementary Balance	0.146
Analogous Dominance	0.708
Temperature Bias	0.419

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 9 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0878.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)

bdc572405bee0cdfd942f0db2a1c90422d31b77e858642c1af7d026c3ef962d0

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