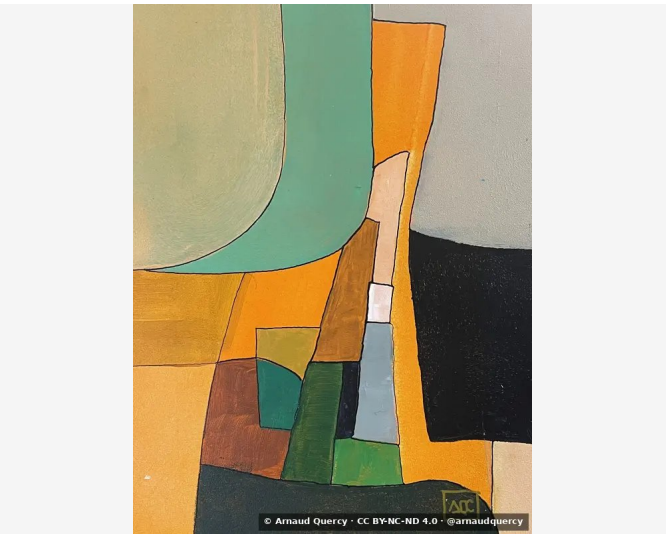
AQC0754 | NAN-COL000200

Nanopublication — Computational Image Analysis - AQC0754

by Arnaud Quercy · D Major - Research on Harmony - Variation 9 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0754

The artwork D Major - Research on Harmony - Variation 9 (AQC0754) [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: 2959x3945 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		BBB083	17.2	yellow	tan
2		E19024	15.2	orange	goldenrod
3		1F1E1E	12.9	gray	very dark gray
4		73A285	12.3	yellow-green	lightslategray
5		ADABA2	10.5	yellow	steel gray
6		364138	8.8	yellow-green	darkslategray
7		ECAD53	7.1	yellow-orange	sandybrown
8		D6C2AA	7.0	yellow-orange	silver
9		9B5E35	5.6	orange	burnt sienna
10		447350	3.4	yellow-green	seagreen
11		1E0102	0.3	red-orange	very dark gray [Accent]
12		B7C9CB	0.3	blue-green	silver [Accent]

Color Families:

Family	%
yellow	27.7
yellow-green	24.5
orange	20.9
yellow-orange	14.0
gray	12.9
red-orange	0.3
blue-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
1E0102	red-orange	very dark gray	11.7
B7C9CB	blue-green	silver	6.7

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.214
Mean Local Roughness	0.011
Roughness Uniformity	0.013
Edge Density	0.033
Mean Gradient Magnitude	0.111
Gradient Variance	0.034
Gradient Smoothness	0.0
Directional Coherence	0.027
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.58
Spatial Variation	0.151
Texture Consistency	0.409

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.53
Brightness Variance	0.214
Brightness Uniformity	0.596
Brightness Skewness	-0.885
Brightness Entropy	7.127
Rms Contrast	0.214
Michelson Contrast	1.0
Weber Contrast	0.806
Mean Local Contrast	0.014
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.643
Shadow Percentage	22.465
Midtone Percentage	42.422
Highlight Percentage	35.114
Shadow Clipping	0.004
Highlight Clipping	0.002
Tonal Balance	0.0
Fine Contrast	0.005
Medium Contrast	0.017
Coarse Contrast	0.032
Multiscale Contrast Ratio	0.164
Edge Contrast	0.111
Contrast Clustering	0.591

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.759
Color Clustering	0.574
Color Transition Smoothness	0.708
Transition Uniformity	0.763
Sharp Transition Ratio	0.1
Transition Directionality	0.035
Mean Saturation	0.377
Saturation Variance	0.074
Low Saturation Ratio	0.493
Medium Saturation Ratio	0.317
High Saturation Ratio	0.19
Saturation Clustering	0.999
Hue Concentration	0.707
Complementary Balance	0.011
Analogous Dominance	0.735
Temperature Bias	0.485

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). D Major - Research on Harmony - Variation 9 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0754.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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