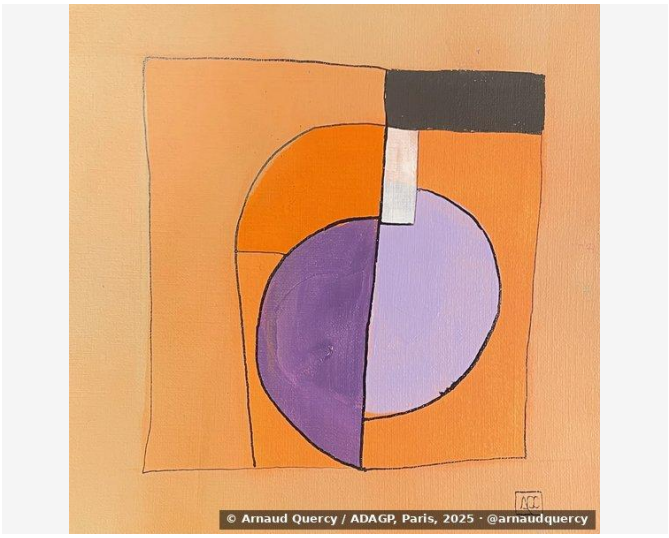
AQC0912 | NAN-COL000048

Nanopublication — Computational Image Analysis - AQC0912

by Arnaud Quercy · G Minor - Research on Harmony - Variations 12 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0912

The artwork G Minor - Research on Harmony - Variations 12 (AQC0912) [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: 2075x2075 pixels. Analysis date: 2025-12-11.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E8AD76	23.8	orange	burlywood
2		EDBC87	19.8	orange	tan
3		EA9F5C	19.7	orange	sandybrown
4		EE8D3F	10.9	orange	coral
5		8A6190	7.4	red-violet	dusty mauve
6		C6AED0	7.4	red-violet	silver
7		ED740B	4.4	orange	darkorange
8		5D4D43	4.1	orange	dark brown
9		E6D4D4	1.4	red-orange	gainsboro
10		3C1F1A	1.1	red-orange	very dark red
11		B77481	0.3	red	rosybrown [Accent]
12		88693A	0.3	yellow-orange	burnt sienna [Accent]

Color Families:

Family	%
orange	82.7
red-violet	14.8
red-orange	2.5
red	0.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
B77481	red	rosybrown	28.3
88693A	yellow-orange	burnt sienna	31.6

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.129
Mean Local Roughness	0.016
Roughness Uniformity	0.021
Edge Density	0.023
Mean Gradient Magnitude	0.126
Gradient Variance	0.046
Gradient Smoothness	0.0
Directional Coherence	0.023
Pattern Complexity	0.108
Pattern Repetition	1.0
Detail Frequency Ratio	0.629
Spatial Variation	0.062
Texture Consistency	0.521

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.667
Brightness Variance	0.129
Brightness Uniformity	0.806
Brightness Skewness	-1.817
Brightness Entropy	6.516
Rms Contrast	0.129
Michelson Contrast	1.0
Weber Contrast	0.404
Mean Local Contrast	0.018
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.424
Shadow Percentage	4.17
Midtone Percentage	25.963
Highlight Percentage	69.867
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.022
Coarse Contrast	0.031
Multiscale Contrast Ratio	0.275
Edge Contrast	0.126
Contrast Clustering	0.479

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.776
Color Clustering	0.281
Color Transition Smoothness	0.683
Transition Uniformity	0.691
Sharp Transition Ratio	0.1
Transition Directionality	0.035
Mean Saturation	0.5
Saturation Variance	0.036
Low Saturation Ratio	0.134
Medium Saturation Ratio	0.727
High Saturation Ratio	0.139
Saturation Clustering	0.999
Hue Concentration	0.908
Complementary Balance	0.0
Analogous Dominance	0.919
Temperature Bias	0.93

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). G Minor - Research on Harmony - Variations 12 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0912.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/2025/11/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)

41ee889ab35c0711e9df58d52e7b2e73709a648d778038e88c42c04378cd87d7

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