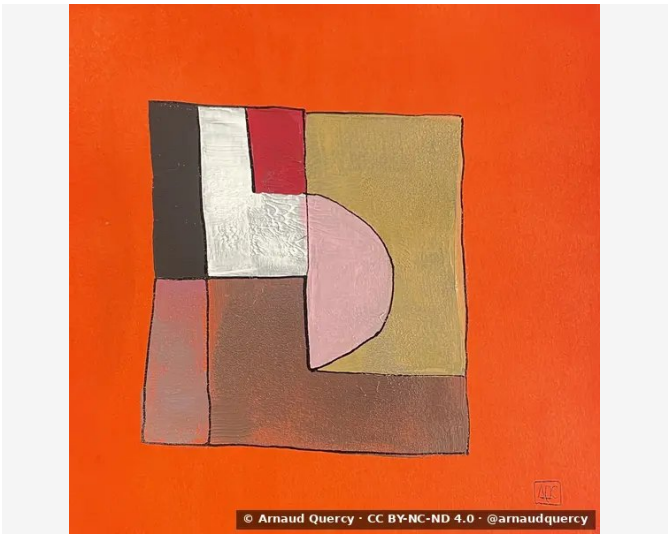
AQC0910 | NAN-COL000046

Nanopublication — Computational Image Analysis - AQC0910

by Arnaud Quercy · F Major - Research on Harmony - Variations 11 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0910

K-means clustering (10 colors) performed on artwork F Major - Research on Harmony - Variations 11 (AQC0910) [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: 2016x2016 pixels. Analysis date: 2025-12-11.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		EC4F11	39.8	orange	orangered
2		EE5724	21.6	orange	chocolate
3		BE9B62	9.2	yellow-orange	ochre
4		8E5E4A	7.5	orange	burnt sienna
5		B07962	6.9	orange	indianred
6		D3ACA6	5.0	red-orange	tan
7		EAE6DA	3.6	yellow	white
8		53423B	3.5	orange	dark brown
9		B8383A	1.8	red-orange	brown
10		3A150F	1.1	red-orange	very dark red

Color Families:

Family	%
orange	79.3
yellow-orange	9.2
red-orange	7.9
yellow	3.6

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.123
Mean Local Roughness	0.015
Roughness Uniformity	0.022
Edge Density	0.06
Mean Gradient Magnitude	0.121
Gradient Variance	0.047
Gradient Smoothness	0.0
Directional Coherence	0.04
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.642
Spatial Variation	0.075
Texture Consistency	0.326

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.506
Brightness Variance	0.123
Brightness Uniformity	0.756
Brightness Skewness	0.972
Brightness Entropy	6.292
Rms Contrast	0.123
Michelson Contrast	1.0
Weber Contrast	0.363
Mean Local Contrast	0.017
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.396
Shadow Percentage	4.804
Midtone Percentage	85.53
Highlight Percentage	9.666
Shadow Clipping	0.0
Highlight Clipping	0.001
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.021
Coarse Contrast	0.03
Multiscale Contrast Ratio	0.271
Edge Contrast	0.121
Contrast Clustering	0.674

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.784
Color Clustering	0.602
Color Transition Smoothness	0.699
Transition Uniformity	0.683
Sharp Transition Ratio	0.1
Transition Directionality	0.056
Mean Saturation	0.705
Saturation Variance	0.074
Low Saturation Ratio	0.116
Medium Saturation Ratio	0.25
High Saturation Ratio	0.634
Saturation Clustering	0.999
Hue Concentration	0.989
Complementary Balance	0.0
Analogous Dominance	1.0
Temperature Bias	1.0

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). F Major - Research on Harmony - Variations 11 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0910.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

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