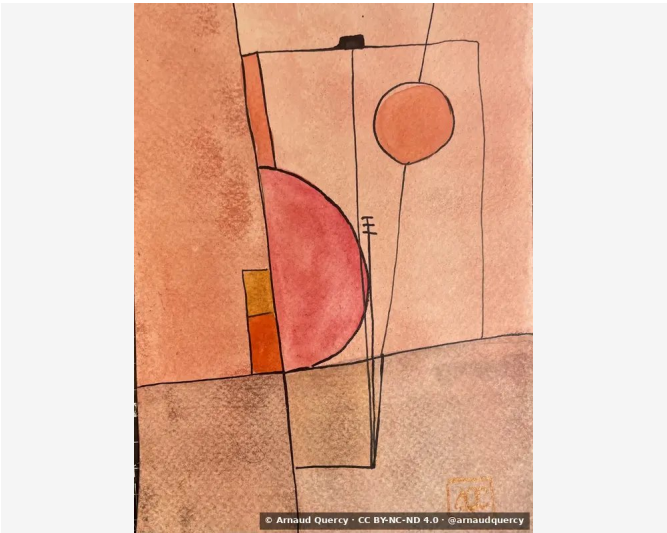


Nanopublication – Computational Image Analysis – AQC0816

by Arnaud Quercy · C Major – Research on Harmony – Variation 10 · 2025



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0816

Computational image analysis of artwork C Major – Research on Harmony – Variation 10 (AQC0816) ^[1] by Arnaud Quercy ^[2], performed according to IDS-CMP-2025 ^[3], using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 2025-10-03.

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: 2482x3309 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E1A787	27.6	orange	burlywood
2		ECB597	18.0	orange	tan
3		E4926B	12.1	orange	darksalmon
4		DB805C	12.1	orange	peru
5		CE9575	11.4	orange	rosybrown
6		BC7E5B	7.0	orange	indianred
7		D4634E	5.8	red-orange	tomato
8		3C2016	2.9	red-orange	very dark red
9		8D5940	1.8	orange	burnt sienna
10		C7520E	1.2	orange	chocolate
11		ADA394	0.3	yellow-orange	steel gray [Accent]

Color Families:

Family	%
orange	91.2
red-orange	8.8
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
ADA394	yellow-orange	steel gray	9.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.123
Mean Local Roughness	0.013
Roughness Uniformity	0.015
Edge Density	0.044
Mean Gradient Magnitude	0.12
Gradient Variance	0.033
Gradient Smoothness	0.0
Directional Coherence	0.017
Pattern Complexity	0.116
Pattern Repetition	1.0
Detail Frequency Ratio	0.598
Spatial Variation	0.059
Texture Consistency	0.652

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.644
Brightness Variance	0.123
Brightness Uniformity	0.809
Brightness Skewness	-2.057
Brightness Entropy	6.607
Rms Contrast	0.123
Michelson Contrast	1.0
Weber Contrast	0.311
Mean Local Contrast	0.015
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.333
Shadow Percentage	3.223
Midtone Percentage	45.302
Highlight Percentage	51.475
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.006
Medium Contrast	0.019
Coarse Contrast	0.033
Multiscale Contrast Ratio	0.191
Edge Contrast	0.12
Contrast Clustering	0.348

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.703
Color Clustering	0.341
Color Transition Smoothness	0.699
Transition Uniformity	0.781
Sharp Transition Ratio	0.1
Transition Directionality	0.028
Mean Saturation	0.47
Saturation Variance	0.014
Low Saturation Ratio	0.012
Medium Saturation Ratio	0.961
High Saturation Ratio	0.027
Saturation Clustering	1.0
Hue Concentration	0.997
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). C Major - Research on Harmony - Variation 10 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0816.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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