

AQC1132

Nanopublication – Computational Image Analysis – AQC1132

by Arnaud Quercy · C Major – Research on Harmony – Variations 21 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC1132

Computational image analysis of artwork C Major – Research on Harmony – Variations 21 (AQC1132) ^[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 2026-10-02.

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: 3024x4032 pixels. Analysis date: 2026-10-02.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		CCC2B2	28.8	yellow-orange	silver
2		BFB6A8	20.7	yellow-orange	steel gray
3		3C3E47	8.7	blue-violet	grayish purple
4		824133	8.5	red-orange	russet
5		1F0F0F	7.7	red-orange	black
6		AD1B11	7.1	red-orange	firebrick
7		C09861	5.6	yellow-orange	ochre
8		E5E1D6	4.9	yellow-orange	gainsboro
9		B95F44	4.7	red-orange	indianred
10		A29B93	3.5	yellow-orange	steel gray
11		6E2C07	0.3	orange	russet [Accent]
12		451C24	0.3	red	very dark red [Accent]

Color Families:

Family	%
yellow-orange	63.4
red-orange	27.9
blue-violet	8.7
orange	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
6E2C07	orange	russet	44.8
451C24	red	very dark red	21.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.247
Mean Local Roughness	0.017
Roughness Uniformity	0.015
Edge Density	0.04
Mean Gradient Magnitude	0.115
Gradient Variance	0.028
Gradient Smoothness	0.0
Directional Coherence	0.016
Pattern Complexity	0.136
Pattern Repetition	1.0
Detail Frequency Ratio	0.64
Spatial Variation	0.176
Texture Consistency	0.683

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.566
Brightness Variance	0.247
Brightness Uniformity	0.563
Brightness Skewness	-0.683
Brightness Entropy	7.131
Rms Contrast	0.247
Michelson Contrast	1.0
Weber Contrast	0.73
Mean Local Contrast	0.017
Contrast Uniformity	0.013
Dynamic Range	1.0
Effective Dynamic Range	0.733
Shadow Percentage	27.04
Midtone Percentage	17.682
Highlight Percentage	55.278
Shadow Clipping	0.002
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.021
Coarse Contrast	0.027
Multiscale Contrast Ratio	0.419
Edge Contrast	0.115
Contrast Clustering	0.317

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.755
Color Clustering	0.716
Color Transition Smoothness	0.711
Transition Uniformity	0.807
Sharp Transition Ratio	0.1
Transition Directionality	0.018
Mean Saturation	0.301
Saturation Variance	0.075
Low Saturation Ratio	0.674
Medium Saturation Ratio	0.212
High Saturation Ratio	0.114
Saturation Clustering	0.999
Hue Concentration	0.822
Complementary Balance	0.059
Analogous Dominance	0.913
Temperature Bias	0.838

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. (2026). C Major - Research on Harmony - Variations 21 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1132.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>

WHERE THIS WORK LIVES

Series: C Major
Collection: Harmonic Crossing

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

2e899e59a557b5a67054ef672dffe1cc998ea49d3781cc70f831e8453716ca86

Licensed under Creative Commons Attribution 4.0 International (CC BY 4.0)

Artist Arnaud Quercy

Date 2026

Collection Harmonic Crossing

Certificate 20261002-0183

Asset code AQC1132

Version 1

Published 2026-10-02

ISSN: applied for – U.S. ISSN Center, Library of Congress

© 2026 Ideamorphic Studies

Published by Art Quam Anima Publishing New York,
an assumed name of AQA Publishing LLC

c/o Northwest Registered Agent, 418 Broadway Ste N
Albany, NY 12207, USA
+1 917-764-5470

NY DOS ID 7624376 · Assumed Name ID 7658709

publishing.artquamanima.com

Last updated: 2026-10-12

Persistent URI: <https://ideamorphism.org/en/nanopubs/2026/10/AQC1132-computational-image-analysis-aqc1132.pdf>