AQC0656 | NAN-COL000290

Nanopublication — Computational Image Analysis - AQC0656

by Arnaud Quercy · Ab minor - Research on Harmony - Variation 3 · 2024

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0656

The artwork Ab minor - Research on Harmony - Variation 3 (AQC0656) [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: 2565x3420 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		3D3733	14.7	gray	darkslategray
2		7F8381	13.1	gray	gray
3		6D6665	12.9	gray	dimgray
4		565048	11.9	yellow-orange	dark brown
5		9B9E97	11.2	gray	steel gray
6		C3BCAA	9.5	yellow	silver
7		251E11	7.6	yellow-orange	very dark gray
8		D6D942	7.0	yellow	ochre
9		EADDB7	6.5	yellow	wheat
10		BCC020	5.5	yellow	goldenrod
11		753536	0.3	red-orange	russet [Accent]
12		A76C75	0.3	red	gray [Accent]

Color Families:

Family	%
gray	52.0
yellow	28.5
yellow-orange	19.5
red-orange	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
753536	red-orange	russet	30.9
A76C75	red	gray	25.5

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.227
Mean Local Roughness	0.03
Roughness Uniformity	0.022
Edge Density	0.186
Mean Gradient Magnitude	0.239
Gradient Variance	0.062
Gradient Smoothness	0.0
Directional Coherence	0.008
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.634
Spatial Variation	0.122
Texture Consistency	0.706

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.488
Brightness Variance	0.227
Brightness Uniformity	0.536
Brightness Skewness	0.056
Brightness Entropy	7.719
Rms Contrast	0.227
Michelson Contrast	1.0
Weber Contrast	0.752
Mean Local Contrast	0.032
Contrast Uniformity	0.286
Dynamic Range	1.0
Effective Dynamic Range	0.71
Shadow Percentage	29.84
Midtone Percentage	42.486
Highlight Percentage	27.674
Shadow Clipping	0.005
Highlight Clipping	0.003
Tonal Balance	0.453
Fine Contrast	0.017
Medium Contrast	0.04
Coarse Contrast	0.057
Multiscale Contrast Ratio	0.297
Edge Contrast	0.239
Contrast Clustering	0.294

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.683
Color Clustering	0.748
Color Transition Smoothness	0.379
Transition Uniformity	0.579
Sharp Transition Ratio	0.1
Transition Directionality	0.011
Mean Saturation	0.263
Saturation Variance	0.059
Low Saturation Ratio	0.771
Medium Saturation Ratio	0.124
High Saturation Ratio	0.106
Saturation Clustering	0.999
Hue Concentration	0.825
Complementary Balance	0.048
Analogous Dominance	0.929
Temperature Bias	0.529

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). Ab minor - Research on Harmony - Variation 3 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0656.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)

c5939f98688f6940c943a189cc305bb8daa7c82ccbb1c787286eb0222ec07b27

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

Artist Arnaud Quercy
Date 2024
Collection Harmonic Crossing
Certificate 20240615-0152
Asset code AQC0656
Identifier NAN-COL000290
Version 1
Published 2025-10-03

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/2025/10/AQC0656-computational-image-analysis-aqc0656.pdf