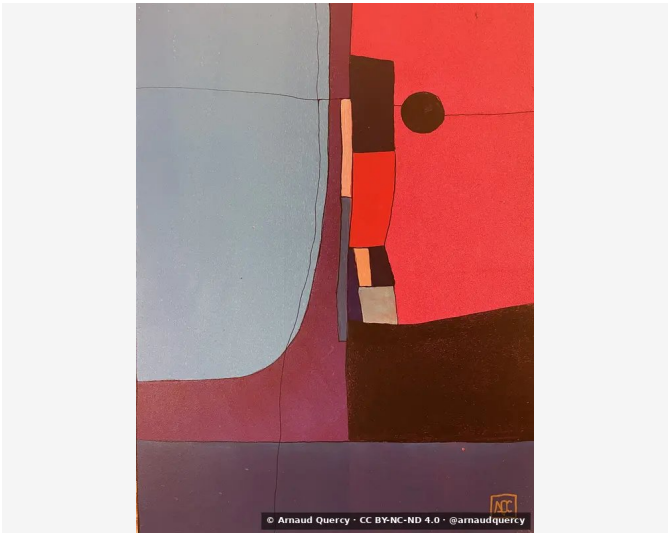


Nanopublication – Computational Image Analysis –
AQC0738

by Arnaud Quercy · F Minor – Research on Harmony – Variation 12 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0738

K-means clustering analysis [3] (10 colors) performed on artwork F Minor [1] – Research on Harmony – Variation 12 (AQC0738) [2] by Arnaud Quercy [2] on 2026-02-04. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

CONTEXT

Analysis performed according to MMIDS-CMP-2025 [3] includes four metric categories: (1) Color distribution via k-means (10 colors), (2) Texture analysis using Haralick features, (3) Brightness and contrast measurements, (4) Spatial pattern characterization. Source image [5]: 3024x4032 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		9DA1A5	23.4	gray	steel gray
2		F14745	16.7	red-orange	tomato
3		4C1E0C	14.8	orange	very dark orange
4		5A3B48	11.9	red	dusty mauve
5		ACB1B7	8.8	gray	steel gray
6		E2332E	6.3	red-orange	crimson
7		6B4D57	5.9	red	dusty mauve
8		8B3840	5.7	red-orange	brown
9		9F4E58	5.1	red-orange	burnt sienna
10		D8916F	1.4	orange	darksalmon
11		BDA789	0.3	yellow-orange	rosybrown [Accent]

Color Families:

Family	%
red-orange	33.8
gray	32.2
red	17.8
orange	16.2
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
BDA789	yellow-orange	rosybrown	18.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.178
Mean Local Roughness	0.015
Roughness Uniformity	0.016
Edge Density	0.065
Mean Gradient Magnitude	0.12
Gradient Variance	0.026
Gradient Smoothness	0.0
Directional Coherence	0.035
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.644
Spatial Variation	0.146
Texture Consistency	0.482

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.44
Brightness Variance	0.178
Brightness Uniformity	0.595
Brightness Skewness	-0.106
Brightness Entropy	7.094
Rms Contrast	0.178
Michelson Contrast	1.0
Weber Contrast	0.734
Mean Local Contrast	0.016
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.541
Shadow Percentage	32.398
Midtone Percentage	58.725
Highlight Percentage	8.877
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.02
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.12
Contrast Clustering	0.518

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.782
Color Clustering	0.404
Color Transition Smoothness	0.705
Transition Uniformity	0.839
Sharp Transition Ratio	0.1
Transition Directionality	0.051
Mean Saturation	0.438
Saturation Variance	0.098
Low Saturation Ratio	0.376
Medium Saturation Ratio	0.29
High Saturation Ratio	0.333
Saturation Clustering	0.999
Hue Concentration	0.963
Complementary Balance	0.0
Analogous Dominance	0.999
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 Multimodal Institute's computational imaging systems.

REFERENCES

[1] Arnaud Quercy (2024). F Minor - Research on Harmony - Variation 12 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0738.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/f-minor-research-on-harmony-variation-12_878.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 <https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html>

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

chromesthetic mapping

F minor harmony

synesthetic art

piano   tude translation

acrylic on wood panel

color-sound correspondence

geometric color relationships

Synesthetic Explorations

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

57a5e11291141bf51b970b3363ee77115f4094a9d1140a5e724ff40511aa7b9c

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

Artist	Arnaud Quercy
Date	2024
Collection	Synesthetic Explorations
Certificate	20241201-0235
Asset code	AQC0738
Identifier	NAN-COL000216
Version	1
Published	2026-02-03

ISSN: [pending – Library of Congress]

© 2026 Multimodal Institute

Published by Art Quam Anima Publishing New York,
an imprint of AQA PUBLISHING LLC

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

publishing.artquamanima.com

Last updated: 2026-06-03

Persistent URI: <https://multimodal.institute/en/nanopubs/2026/02/AQC0738-computational-image-analysis-aqc0738.pdf>