

Nanopublication – Computational Image Analysis –
AQC1099

by Arnaud Quercy · F Major – Research on Harmony – Variations 14 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1099

K-means clustering (10 colors) performed on artwork F Major (AQC1099) ^[1] by Arnaud Quercy ^[2] on 2026-08-29, 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: 2080x2457 pixels. Analysis date: 2026-08-29.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		2F3346	19.2	blue-violet	grayish purple
2		716A5B	14.7	yellow-orange	dimgray
3		73433B	13.2	red-orange	russet
4		86511E	13.0	orange	russet
5		626074	10.7	violet	dusty mauve
6		991C14	9.2	red-orange	brown
7		4B5264	9.2	blue-violet	grayish purple
8		141116	7.4	black	black
9		BB735F	2.1	red-orange	indianred
10		C6AF8F	1.4	yellow-orange	tan

Color Families:

Family	%
blue-violet	28.3
red-orange	24.5
yellow-orange	16.1
orange	13.0
violet	10.7
black	7.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.117
Mean Local Roughness	0.024
Roughness Uniformity	0.017
Edge Density	0.084
Mean Gradient Magnitude	0.159
Gradient Variance	0.03
Gradient Smoothness	0.0
Directional Coherence	0.008
Pattern Complexity	0.142
Pattern Repetition	1.0
Detail Frequency Ratio	0.698
Spatial Variation	0.044
Texture Consistency	0.57

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.312
Brightness Variance	0.117
Brightness Uniformity	0.625
Brightness Skewness	0.113
Brightness Entropy	6.786
Rms Contrast	0.117
Michelson Contrast	1.0
Weber Contrast	0.591
Mean Local Contrast	0.022
Contrast Uniformity	0.223
Dynamic Range	0.98
Effective Dynamic Range	0.38
Shadow Percentage	53.885
Midtone Percentage	44.996
Highlight Percentage	1.119
Shadow Clipping	0.036
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.014
Medium Contrast	0.028
Coarse Contrast	0.031
Multiscale Contrast Ratio	0.459
Edge Contrast	0.159
Contrast Clustering	0.43

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.727
Color Clustering	0.435
Color Transition Smoothness	0.577
Transition Uniformity	0.787
Sharp Transition Ratio	0.1
Transition Directionality	0.009
Mean Saturation	0.43
Saturation Variance	0.061
Low Saturation Ratio	0.418
Medium Saturation Ratio	0.374
High Saturation Ratio	0.208
Saturation Clustering	0.997
Hue Concentration	0.324
Complementary Balance	0.159
Analogous Dominance	0.569
Temperature Bias	0.284

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). F Major - Research on Harmony - Variations 14 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1099.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)

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Artist Arnaud Quercy

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