

AQC1118

Nanopublication – Computational Image Analysis – AQC1118

by Arnaud Quercy · D Minor 7 – Research on Harmony – Variations 5 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC1118

Computational image analysis of artwork D Minor 7 – Research on Harmony – Variations 5 (AQC1118) ^[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		C1B09D	24.8	yellow-orange	tan
2		A0907B	20.7	yellow-orange	rosybrown
3		B2A18D	16.3	yellow-orange	steel gray
4		1B120E	12.5	red-orange	black
5		937D5F	6.8	yellow-orange	gray
6		A7613C	5.0	orange	burnt sienna
7		813D1D	4.6	orange	russet
8		A73407	3.8	orange	firebrick
9		E8E0D0	2.8	yellow-orange	gainsboro
10		654A41	2.6	orange	dark brown

Color Families:

Family	%
yellow-orange	71.5
orange	16.0
red-orange	12.5

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.212
Mean Local Roughness	0.02
Roughness Uniformity	0.012
Edge Density	0.066
Mean Gradient Magnitude	0.139
Gradient Variance	0.022
Gradient Smoothness	0.0
Directional Coherence	0.007
Pattern Complexity	0.136
Pattern Repetition	1.0
Detail Frequency Ratio	0.646
Spatial Variation	0.146
Texture Consistency	0.541

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.525
Brightness Variance	0.212
Brightness Uniformity	0.596
Brightness Skewness	-0.961
Brightness Entropy	7.164
Rms Contrast	0.212
Michelson Contrast	1.0
Weber Contrast	0.846
Mean Local Contrast	0.02
Contrast Uniformity	0.331
Dynamic Range	0.996
Effective Dynamic Range	0.663
Shadow Percentage	19.568
Midtone Percentage	50.034
Highlight Percentage	30.398
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.014
Medium Contrast	0.025
Coarse Contrast	0.032
Multiscale Contrast Ratio	0.444
Edge Contrast	0.139
Contrast Clustering	0.459

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.777
Color Clustering	0.625
Color Transition Smoothness	0.644
Transition Uniformity	0.848
Sharp Transition Ratio	0.1
Transition Directionality	0.007
Mean Saturation	0.333
Saturation Variance	0.051
Low Saturation Ratio	0.646
Medium Saturation Ratio	0.239
High Saturation Ratio	0.114
Saturation Clustering	0.998
Hue Concentration	0.987
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. (2026). D Minor 7 - Research on Harmony - Variations 5 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1118.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

Collection: Harmonic Crossing

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

15ec621e48e3a1e469601ac3737ddd7454706f43b072c3a23c7342e0257510bc

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Artist	Arnaud Quercy
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