

AQC1117

Nanopublication – Computational Image Analysis – AQC1117

by Arnaud Quercy · D Major – Research on Harmony – Variations 16 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC1117

The artwork D Major – Research on Harmony – Variations 16 (AQC1117) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-10-02. 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: 3024x4032 pixels. Analysis date: 2026-10-02.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		BDB4A5	21.1	yellow-orange	steel gray
2		B1A799	19.8	yellow-orange	steel gray
3		9F9588	17.5	yellow-orange	rosybrown
4		595853	12.7	gray	dimgray
5		434033	7.1	yellow	darkslategray
6		83796C	6.2	yellow-orange	gray
7		0A1108	4.9	yellow-green	black
8		6D4417	4.3	orange	russet
9		DFDCD1	3.4	yellow	gainsboro
10		AF5610	2.9	orange	burnt sienna
11		430A04	0.3	red-orange	very dark red [Accent]

Color Families:

Family	%
yellow-orange	64.6
gray	12.7
yellow	10.5
orange	7.2
yellow-green	4.9
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
430A04	red-orange	very dark red	32.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.199
Mean Local Roughness	0.018
Roughness Uniformity	0.01
Edge Density	0.032
Mean Gradient Magnitude	0.117
Gradient Variance	0.017
Gradient Smoothness	0.0
Directional Coherence	0.007
Pattern Complexity	0.135
Pattern Repetition	1.0
Detail Frequency Ratio	0.633
Spatial Variation	0.143
Texture Consistency	0.651

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.534
Brightness Variance	0.199
Brightness Uniformity	0.627
Brightness Skewness	-0.731
Brightness Entropy	7.205
Rms Contrast	0.199
Michelson Contrast	1.0
Weber Contrast	0.641
Mean Local Contrast	0.018
Contrast Uniformity	0.369
Dynamic Range	1.0
Effective Dynamic Range	0.58
Shadow Percentage	19.415
Midtone Percentage	45.758
Highlight Percentage	34.828
Shadow Clipping	0.1
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.014
Medium Contrast	0.021
Coarse Contrast	0.028
Multiscale Contrast Ratio	0.508
Edge Contrast	0.117
Contrast Clustering	0.349

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.728
Color Clustering	0.777
Color Transition Smoothness	0.699
Transition Uniformity	0.877
Sharp Transition Ratio	0.1
Transition Directionality	0.007
Mean Saturation	0.204
Saturation Variance	0.05
Low Saturation Ratio	0.859
Medium Saturation Ratio	0.056
High Saturation Ratio	0.084
Saturation Clustering	0.998
Hue Concentration	0.861
Complementary Balance	0.001
Analogous Dominance	0.867
Temperature Bias	0.635

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 Major - Research on Harmony - Variations 16 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1117.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: D 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)

e92ab8fe496f987dc404a98f00e8749b2618ea29164f1c9555ad907224a7dc25

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