

AQC1127

Nanopublication – Computational Image Analysis – AQC1127

by Arnaud Quercy · Bb Major - Research on Harmony - Variations 17 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1127

The artwork Bb Major - Research on Harmony - Variations 17 (AQC1127) [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		B5A794	19.5	yellow-orange	steel gray
2		C3B5A3	17.7	yellow-orange	tan
3		A49685	17.0	yellow-orange	rosybrown
4		6D6260	10.9	red-orange	dimgray
5		53473E	10.4	orange	dark brown
6		8D7C75	10.0	orange	gray
7		511936	6.6	red	very dark red
8		0E0606	3.7	black	black
9		E2DBCD	2.9	yellow-orange	gainsboro
10		A7521D	1.5	orange	burnt sienna

Color Families:

Family	%
yellow-orange	57.0
orange	21.9
red-orange	10.9
red	6.6
black	3.7

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.201
Mean Local Roughness	0.022
Roughness Uniformity	0.015
Edge Density	0.084
Mean Gradient Magnitude	0.148
Gradient Variance	0.029
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.136
Pattern Repetition	1.0
Detail Frequency Ratio	0.653
Spatial Variation	0.143
Texture Consistency	0.563

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.526
Brightness Variance	0.201
Brightness Uniformity	0.619
Brightness Skewness	-0.744
Brightness Entropy	7.341
Rms Contrast	0.201
Michelson Contrast	1.0
Weber Contrast	0.665
Mean Local Contrast	0.022
Contrast Uniformity	0.251
Dynamic Range	0.996
Effective Dynamic Range	0.616
Shadow Percentage	20.359
Midtone Percentage	48.513
Highlight Percentage	31.129
Shadow Clipping	0.002
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.015
Medium Contrast	0.026
Coarse Contrast	0.033
Multiscale Contrast Ratio	0.451
Edge Contrast	0.148
Contrast Clustering	0.437

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.751
Color Clustering	0.739
Color Transition Smoothness	0.621
Transition Uniformity	0.801
Sharp Transition Ratio	0.1
Transition Directionality	0.01
Mean Saturation	0.246
Saturation Variance	0.036
Low Saturation Ratio	0.839
Medium Saturation Ratio	0.104
High Saturation Ratio	0.056
Saturation Clustering	0.999
Hue Concentration	0.871
Complementary Balance	0.0
Analogous Dominance	0.993
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). Bb Major - Research on Harmony - Variations 17 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1127.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: Bb 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)

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Artist Arnaud Quercy

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