

AQC1112

Nanopublication – Computational Image Analysis – AQC1112

by Arnaud Quercy · Bb Major - Research on Harmony - Variations 12 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC1112

The artwork Bb Major - Research on Harmony - Variations 12 (AQC1112) [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		BFB5A5	27.4	yellow-orange	steel gray
2		B5AC9B	23.6	yellow-orange	steel gray
3		8D7387	12.7	red-violet	dusty mauve
4		7F3A4F	8.9	red	burnt sienna
5		A6988D	5.7	orange	rosybrown
6		110B0A	5.6	black	black
7		605E63	5.6	gray	dusty mauve
8		E0DBCf	4.1	yellow-orange	gainsboro
9		4D1A37	3.7	red	very dark red
10		AF571D	2.8	orange	burnt sienna

Color Families:

Family	%
yellow-orange	55.1
red-violet	12.7
red	12.6
orange	8.5
black	5.6
gray	5.6

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.207
Mean Local Roughness	0.014
Roughness Uniformity	0.008
Edge Density	0.014
Mean Gradient Magnitude	0.097
Gradient Variance	0.011
Gradient Smoothness	0.0
Directional Coherence	0.012
Pattern Complexity	0.141
Pattern Repetition	1.0
Detail Frequency Ratio	0.631
Spatial Variation	0.142
Texture Consistency	0.591

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.56
Brightness Variance	0.207
Brightness Uniformity	0.63
Brightness Skewness	-0.974
Brightness Entropy	6.927
Rms Contrast	0.207
Michelson Contrast	1.0
Weber Contrast	0.608
Mean Local Contrast	0.014
Contrast Uniformity	0.352
Dynamic Range	0.992
Effective Dynamic Range	0.675
Shadow Percentage	16.195
Midtone Percentage	32.786
Highlight Percentage	51.019
Shadow Clipping	0.002
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.017
Coarse Contrast	0.023
Multiscale Contrast Ratio	0.436
Edge Contrast	0.097
Contrast Clustering	0.409

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.83
Color Clustering	0.726
Color Transition Smoothness	0.752
Transition Uniformity	0.92
Sharp Transition Ratio	0.1
Transition Directionality	0.013
Mean Saturation	0.231
Saturation Variance	0.04
Low Saturation Ratio	0.809
Medium Saturation Ratio	0.142
High Saturation Ratio	0.049
Saturation Clustering	0.999
Hue Concentration	0.906
Complementary Balance	0.0
Analogous Dominance	0.904
Temperature Bias	0.994

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 12 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1112.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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