

# Nanopublication — Computational Image Analysis - AQC0715

by Arnaud Quercy · Bb Minor - Research on Harmony - Variation 6 · 2024

## Claim 1: Computational Image Analysis - AQC0715

The artwork Bb Minor [1] - Research on Harmony - Variation 6 (AQC0715) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

### CONTEXT

Analysis performed according to MMIDS-CMP-2025 [3] includes four metric categories: (1) Color distribution via k-means (10 colors), (2) Texture analysis using Haralick features, (3) Brightness and contrast measurements, (4) Spatial pattern characterization. Source image [5]: 2972x3963 pixels. Analysis date: 2026-02-04.

### COLOR ANALYSIS

Rank	Color Hex	%	Family	Name
1	A1263F	13.8	red-orange	brown
2	CD3F54	13.8	red-orange	indianred
3	EC808E	13.6	red	lightcoral
4	5F2E29	13.4	red-orange	russet
5	AEB3AE	10.3	gray	steel gray
6	B3556C	9.5	red	palevioletred
7	8E3D51	8.1	red	burnt sienna
8	3A0F0D	7.4	red-orange	very dark red
9	C7C5C2	6.0	white	silver
10	8D9795	4.1	gray	lightslategray
11	F4AB82	0.3	orange	lightsalmon [Accent]

### Color Families:

Family	%
red-orange	48.4
red	31.2
gray	14.4
white	6.0
orange	0.3

### Accent Colors:

Hex	Family Name	Chroma
F4AB82	orange	lightsalmon 38.8

### TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.195
Mean Local Roughness	0.022
Roughness Uniformity	0.017

Metric	Value
Edge Density	0.121
Mean Gradient Magnitude	0.179
Gradient Variance	0.038
Gradient Smoothness	0.0
Directional Coherence	0.013
Pattern Complexity	0.126
Pattern Repetition	1.0
Detail Frequency Ratio	0.633
Spatial Variation	0.149
Texture Consistency	0.67

### BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.442
Brightness Variance	0.195
Brightness Uniformity	0.559
Brightness Skewness	0.129
Brightness Entropy	7.44
Rms Contrast	0.195
Michelson Contrast	1.0
Weber Contrast	0.709
Mean Local Contrast	0.024
Contrast Uniformity	0.231
Dynamic Range	1.0
Effective Dynamic Range	0.631
Shadow Percentage	33.895
Midtone Percentage	48.062
Highlight Percentage	18.044
Shadow Clipping	0.001
Highlight Clipping	0.001
Tonal Balance	0.196
Fine Contrast	0.011
Medium Contrast	0.03
Coarse Contrast	0.043
Multiscale Contrast Ratio	0.261
Edge Contrast	0.179
Contrast Clustering	0.33

### SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.776
Color Clustering	0.626
Color Transition Smoothness	0.563
Transition Uniformity	0.763
Sharp Transition Ratio	0.1
Transition Directionality	0.016

Metric	Value
Mean Saturation	0.508
Saturation Variance	0.067
Low Saturation Ratio	0.206
Medium Saturation Ratio	0.538
High Saturation Ratio	0.257
Saturation Clustering	0.999
Hue Concentration	0.987
Complementary Balance	0.001
Analogous Dominance	0.999
Temperature Bias	0.999

## 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 Multimodal Institute's computational imaging systems.

### REFERENCES

[1] Arnaud Quercy (2024). Bb Minor - Research on Harmony - Variation 6 — Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0715.html>

[2] Quercy, A. (2024). Bb Minor - Research on Harmony - Variation 6 - Gallery. [https://artquamanima.com/en/artworks/2024/01/bb-minor-research-on-harmony-variation-6\\_7ya.html](https://artquamanima.com/en/artworks/2024/01/bb-minor-research-on-harmony-variation-6_7ya.html)

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 h [tps://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html](https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html)

### EPISTEMIC PROFILE

<b>Claim type</b>	computational analysis
<b>Voice</b>	third person
<b>Epistemic status</b>	empirical measurement
<b>Methodology</b>	computational analysis
<b>Certainty</b>	high

### CHECKSUM (SHA-256)

1649144a8686f5952c8c5515da6c0a0cc0285328df028ad-cd029d0260116a58c

<b>Artist</b>	Arnaud Quercy
<b>Date</b>	2024
<b>Collection</b>	Synesthetic Explorations
<b>Certificate</b>	20241201-0211
<b>Asset code</b>	AQC0715
<b>Version</b>	1
<b>Published</b>	2026-02-03

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Published by: Art Quam Anima Publishing New York LLC — [publishing.artquamanima.com](https://publishing.artquamanima.com)

Date of publication: 2026-04-20

Persistent URI: <https://multimodal.institute/en/nanopubs/2026/02/AQC0715-computational-image-analysis-aqc0715.pdf>

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