AQC0849

Nanopublication — Computational Image Analysis - AQC0849

by Arnaud Quercy · Bb Major - Research on Harmony - Variation 6 · 2025

Claim 1: Computational Image Analysis - AQC0849

> The artwork Bb Major [1] - Research on Harmony - Variation 6 (AQC0849) [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]: 2279x3039 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		ED9E1E	21.8	orange	goldenrod
2		E4CDD4	17.2	red	lightgray
3		CEB5CD	14.3	red-violet	thistle
4		8C6EBF	11.9	violet	mediumpurple
5		7156A7	9.9	violet	slateblue
6		AA8DD1	8.8	violet	steel gray
7		513A81	6.3	violet	darkslateblue
8		CC939D	4.0	red	rosybrown
9		47322E	3.1	red-orange	darkslategray
10		B26973	2.7	red	indianred
11		C79036	0.3	yellow-orange	peru [Accent]

Color Families:

Family	%
violet	36.9
red	23.8
orange	21.8
red-violet	14.3
red-orange	3.1
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
C79036	yellow-orange	peru	55.3

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.174
Mean Local Roughness	0.014
Roughness Uniformity	0.013
Edge Density	0.062
Mean Gradient Magnitude	0.124
Gradient Variance	0.02
Gradient Smoothness	0.0
Directional Coherence	0.029
Pattern Complexity	0.119
Pattern Repetition	1.0
Detail Frequency Ratio	0.616
Spatial Variation	0.127
Texture Consistency	0.506

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.615
Brightness Variance	0.174
Brightness Uniformity	0.716
Brightness Skewness	-0.57
Brightness Entropy	7.327
Rms Contrast	0.174
Michelson Contrast	0.992
Weber Contrast	0.569
Mean Local Contrast	0.016
Contrast Uniformity	0.169
Dynamic Range	0.996
Effective Dynamic Range	0.573
Shadow Percentage	8.192
Midtone Percentage	49.241
Highlight Percentage	42.567
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.057
Fine Contrast	0.007
Medium Contrast	0.019
Coarse Contrast	0.031
Multiscale Contrast Ratio	0.235
Edge Contrast	0.124
Contrast Clustering	0.494

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.76
Color Clustering	0.561
Color Transition Smoothness	0.682
Transition Uniformity	0.869
Sharp Transition Ratio	0.1

Metric	Value
Transition Directionality	0.03
Mean Saturation	0.429
Saturation Variance	0.079
Low Saturation Ratio	0.374
Medium Saturation Ratio	0.403
High Saturation Ratio	0.223
Saturation Clustering	1.0
Hue Concentration	0.481
Complementary Balance	0.0
Analogous Dominance	0.582
Temperature Bias	0.445

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 (2025). Bb Major - Research on Harmony - Variation 6 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0849.html

[2] Quercy, A. (2025). Bb Major - Research on Harmony - Variation 6 - Gallery. https://artquamanima.com/en/artworks/2025/01/bb-major-research-on-harmony-variation-6_9ee.html

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

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

8edb7e505454c12c621f22db662308e4f48036be9a8c08af3b-d490f1553ea888

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