AQC0791

Nanopublication — Computational Image Analysis - AQC0791

by Arnaud Quercy · Bb Octaves - Reflexions 25 · 2024

Claim 1: Computational Image Analysis - AQC0791

> The artwork Bb Octaves [1] - Reflexions 25 (AQC0791) [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]: 2334x3501 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		201E2B	21.4	violet	very dark gray
2		735591	16.0	violet	dusty mauve
3		674B76	12.9	red-violet	dusty mauve
4		BFB8AA	9.5	yellow-orange	silver
5		2F274C	8.9	violet	very dark purple
6		CFC9BC	7.6	yellow-orange	lightgray
7		ACA596	7.0	yellow-orange	steel gray
8		8465A0	6.9	violet	dusty mauve
9		BBB0E4	5.6	violet	lightsteelblue
10		9E88D6	4.2	violet	mediumpurple
11		887C45	0.3	yellow	olivedrab [Accent]

Color Families:

Family	%
violet	63.0
yellow-orange	24.1
red-violet	12.9
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
887C45	yellow	olivedrab	31.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.233
Mean Local Roughness	0.007
Roughness Uniformity	0.009
Edge Density	0.01
Mean Gradient Magnitude	0.083
Gradient Variance	0.018
Gradient Smoothness	0.0
Directional Coherence	0.034
Pattern Complexity	0.109
Pattern Repetition	1.0
Detail Frequency Ratio	0.557
Spatial Variation	0.203
Texture Consistency	0.531

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.424
Brightness Variance	0.233
Brightness Uniformity	0.45
Brightness Skewness	0.16
Brightness Entropy	7.183
Rms Contrast	0.233
Michelson Contrast	1.0
Weber Contrast	0.827
Mean Local Contrast	0.01
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.667
Shadow Percentage	33.062
Midtone Percentage	41.823
Highlight Percentage	25.116
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.004
Medium Contrast	0.012
Coarse Contrast	0.026
Multiscale Contrast Ratio	0.148
Edge Contrast	0.083
Contrast Clustering	0.469

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.804
Color Clustering	0.878
Color Transition Smoothness	0.773
Transition Uniformity	0.871
Sharp Transition Ratio	0.1
Transition Directionality	0.044
Mean Saturation	0.302

Metric	Value
Saturation Variance	0.021
Low Saturation Ratio	0.44
Medium Saturation Ratio	0.555
High Saturation Ratio	0.005
Saturation Clustering	1.0
Hue Concentration	0.957
Complementary Balance	0.003
Analogous Dominance	0.989
Temperature Bias	0.009

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 Octaves - Reflexions 25 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0791.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/bb-octaves-reflexions-25_8ru.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/10/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)

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