AQC0970

Nanopublication — Computational Image Analysis - AQC0970

by Arnaud Quercy · Bb7sus - Research on Harmony · 2026

Claim 1: Computational Image Analysis - AQC0970

> K-means clustering analysis [3] (10 colors) performed on artwork Bb7sus (AQC0970) [2] by Arnaud Quercy [2] on 2026-03-05. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

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]: 1502x2253 pixels. Analysis date: 2026-03-05.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		98ACEB	37.0	blue-violet	lightsteelblue
2		E7E3D2	13.7	yellow	gainsboro
3		8A6CA7	9.7	violet	dusty mauve
4		CEBDDE	8.3	violet	thistle
5		4579CC	7.5	blue-violet	steelblue
6		0C0C13	6.6	black	black
7		408548	4.9	yellow-green	seagreen
8		62626C	4.5	violet	dusty mauve
9		B6B98A	4.4	yellow-green	tan
10		363845	3.3	blue-violet	grayish purple
11		85A4B1	0.3	blue	steel gray [Accent]
12		663663	0.3	red-violet	dusty mauve [Accent]
13		D9CCA7	0.3	yellow-orange	palegoldenrod [Accent]

Color Families:

Family	%
blue-violet	47.8
violet	22.6
yellow	13.7
yellow-green	9.2
black	6.6
blue	0.3
red-violet	0.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
85A4B1	blue	steel gray	12.8
663663	red-violet	dusty mauve	34.1
D9CCA7	yellow-orange	palegoldenrod	20.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.223
Mean Local Roughness	0.021
Roughness Uniformity	0.023
Edge Density	0.063
Mean Gradient Magnitude	0.171
Gradient Variance	0.072
Gradient Smoothness	0.0
Directional Coherence	0.015
Pattern Complexity	0.124
Pattern Repetition	1.0
Detail Frequency Ratio	0.621
Spatial Variation	0.144
Texture Consistency	0.695

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.6
Brightness Variance	0.223
Brightness Uniformity	0.628
Brightness Skewness	-0.885
Brightness Entropy	7.274
Rms Contrast	0.223
Michelson Contrast	1.0
Weber Contrast	0.644
Mean Local Contrast	0.023
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.839
Shadow Percentage	10.62
Midtone Percentage	38.205
Highlight Percentage	51.175
Shadow Clipping	0.002
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.011
Medium Contrast	0.028
Coarse Contrast	0.045
Multiscale Contrast Ratio	0.241
Edge Contrast	0.171
Contrast Clustering	0.305

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.738
Color Clustering	0.762

Metric	Value
Color Transition Smoothness	0.564
Transition Uniformity	0.509
Sharp Transition Ratio	0.1
Transition Directionality	0.015
Mean Saturation	0.324
Saturation Variance	0.029
Low Saturation Ratio	0.35
Medium Saturation Ratio	0.641
High Saturation Ratio	0.009
Saturation Clustering	0.999
Hue Concentration	0.749
Complementary Balance	0.037
Analogous Dominance	0.851
Temperature Bias	-0.722

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 (2026). Bb7sus - Research on Harmony — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0970.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2026/03/bb7sus-research-on-harmony_1ypc.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)

dc90b68565da7ade2b52e2a1b64197185e9f0781-fa69d7f71f636346c7814793

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