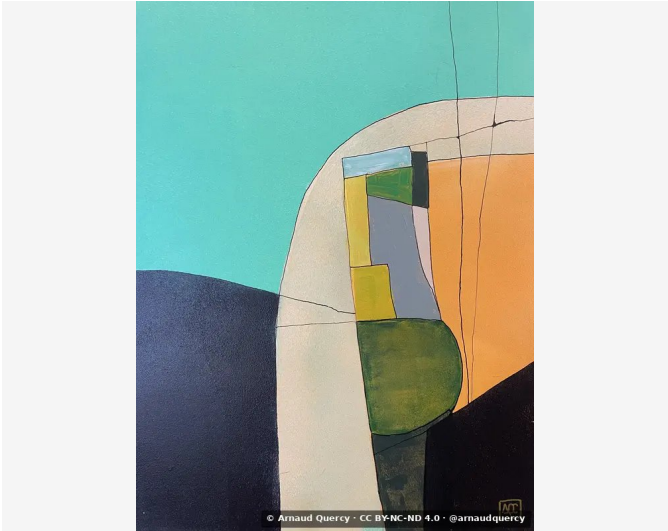


Nanopublication – Computational Image Analysis –
AQC0712

by Arnaud Quercy · B Minor – Research on Harmony – Variation 2 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0712

Computational image analysis of artwork B Minor – Research on Harmony – Variation 2 (AQC0712) ^[1] by Arnaud Quercy ^[2], performed according to IDS-CMP-2025 ^[3], using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 2025-10-03.

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: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		6DCCC3	34.6	green	mediumaquamarine
2		CCC1AD	10.6	yellow-orange	silver
3		2E333E	10.2	blue-violet	grayish purple
4		130F16	9.6	black	black
5		DFD2C0	7.6	yellow-orange	lightgray
6		E8A45B	6.5	orange	sandybrown
7		4A526D	6.3	blue-violet	grayish purple
8		D69643	5.3	orange	peru
9		5F6A39	5.2	yellow-green	dark brown
10		798295	4.1	blue-violet	grayish purple
11		621606	0.3	red-orange	maroon [Accent]
12		AF9D27	0.3	yellow	darkgoldenrod [Accent]
13		9EC4CF	0.3	blue	lightsteelblue [Accent]
14		7FE3E9	0.3	blue-green	skyblue [Accent]

Color Families:

Family	%
green	34.6
blue-violet	20.6
yellow-orange	18.1
orange	11.9
black	9.6
yellow-green	5.2
red-orange	0.3
yellow	0.3
blue	0.3
blue-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
621606	red-orange	maroon	43.3
AF9D27	yellow	darkgoldenrod	59.3
9EC4CF	blue	lightsteelblue	14.1
7FE3E9	blue-green	skyblue	30.5

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.244
Mean Local Roughness	0.025
Roughness Uniformity	0.026
Edge Density	0.125
Mean Gradient Magnitude	0.193
Gradient Variance	0.073
Gradient Smoothness	0.0
Directional Coherence	0.016
Pattern Complexity	0.126
Pattern Repetition	1.0
Detail Frequency Ratio	0.648
Spatial Variation	0.182
Texture Consistency	0.312

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.549
Brightness Variance	0.244
Brightness Uniformity	0.554
Brightness Skewness	-0.844
Brightness Entropy	7.191
Rms Contrast	0.244
Michelson Contrast	1.0
Weber Contrast	0.83
Mean Local Contrast	0.027
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.753
Shadow Percentage	24.139
Midtone Percentage	23.25
Highlight Percentage	52.611
Shadow Clipping	0.049
Highlight Clipping	0.003
Tonal Balance	0.0
Fine Contrast	0.014
Medium Contrast	0.033
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.193
Contrast Clustering	0.688

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.791
Color Clustering	0.801
Color Transition Smoothness	0.498
Transition Uniformity	0.471
Sharp Transition Ratio	0.1
Transition Directionality	0.024
Mean Saturation	0.39
Saturation Variance	0.031
Low Saturation Ratio	0.317
Medium Saturation Ratio	0.654
High Saturation Ratio	0.03
Saturation Clustering	0.997
Hue Concentration	0.404
Complementary Balance	0.101
Analogous Dominance	0.685
Temperature Bias	-0.444

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. (2024). B Minor - Research on Harmony - Variation 2 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0712.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/2025/09/ids-cmp-2025-computational-image-analysis-standard-5dq9.html>

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

90cbdcf8c0b821b40295614ed2854743f7aa5a67fcaf9ebe5dfecfcc2b854e3f

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