

Nanopublication – Computational Image Analysis – AQC0584

by Arnaud Quercy · C minor – Research on Harmony – Variation 1 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0584

Analysis record: C minor – Research on Harmony – Variation 1 (AQC0584) ^[1] by Arnaud Quercy ^[2], per IDS-CMP-2025 ^[3]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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: 2755x3444 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		BC0D0F	17.5	red-orange	firebrick
2		A5080A	17.3	red-orange	darkred
3		CC1C20	15.0	red-orange	crimson
4		4A3D6C	12.5	violet	dusty mauve
5		D92F30	10.6	red-orange	brown
6		AE2026	9.4	red-orange	burnt sienna
7		1F072D	7.8	red-violet	very dark purple
8		5E597D	6.0	violet	dusty mauve
9		DB5457	2.7	red-orange	indianred
10		EF9598	1.1	red-orange	darksalmon
11		CC5014	0.3	orange	chocolate [Accent]
12		883853	0.3	red	burnt sienna [Accent]

Color Families:

Family	%
red-orange	73.6
violet	18.5
red-violet	7.8
orange	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
CC5014	orange	chocolate	72.3
883853	red	burnt sienna	37.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.103
Mean Local Roughness	0.039
Roughness Uniformity	0.03
Edge Density	0.209
Mean Gradient Magnitude	0.296
Gradient Variance	0.092
Gradient Smoothness	0.0
Directional Coherence	0.019
Pattern Complexity	0.166
Pattern Repetition	1.0
Detail Frequency Ratio	0.71
Spatial Variation	0.052
Texture Consistency	0.64

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.284
Brightness Variance	0.103
Brightness Uniformity	0.637
Brightness Skewness	0.735
Brightness Entropy	6.432
Rms Contrast	0.103
Michelson Contrast	1.0
Weber Contrast	0.5
Mean Local Contrast	0.046
Contrast Uniformity	0.263
Dynamic Range	1.0
Effective Dynamic Range	0.361
Shadow Percentage	72.993
Midtone Percentage	26.216
Highlight Percentage	0.792
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.02
Medium Contrast	0.054
Coarse Contrast	0.053
Multiscale Contrast Ratio	0.384
Edge Contrast	0.296
Contrast Clustering	0.36

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.722
Color Clustering	0.397
Color Transition Smoothness	0.362
Transition Uniformity	0.535
Sharp Transition Ratio	0.1
Transition Directionality	0.019
Mean Saturation	0.78
Saturation Variance	0.046
Low Saturation Ratio	0.061
Medium Saturation Ratio	0.171
High Saturation Ratio	0.768
Saturation Clustering	0.997
Hue Concentration	0.741
Complementary Balance	0.0
Analogous Dominance	0.761
Temperature Bias	0.701

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). C minor - Research on Harmony - Variation 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0584.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)

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