

Nanopublication – Computational Image Analysis – AQC0763

by Arnaud Quercy · G Minor – Research on Harmony – Variation 6 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0763

Computational image analysis of artwork G Minor – Research on Harmony – Variation 6 (AQC0763) ^[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: 2888x3851 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		2E2F35	20.1	gray	darkslategray
2		695388	15.3	violet	dusty mauve
3		DEA465	14.1	orange	sandybrown
4		B95C2C	13.7	orange	burnt sienna
5		DFBB97	12.3	orange	burlywood
6		CD8651	9.3	orange	peru
7		4D424B	5.0	red-violet	dusty mauve
8		BBB4AC	4.8	yellow-orange	steel gray
9		EEA11F	3.1	yellow-orange	goldenrod
10		E1D8D9	2.1	white	gainsboro
11		420F07	0.3	red-orange	very dark red [Accent]
12		1C0F14	0.3	red	black [Accent]

Color Families:

Family	%
orange	49.4
gray	20.1
violet	15.3
yellow-orange	8.0
red-violet	5.0
white	2.1
red-orange	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
420F07	red-orange	very dark red	29.4
1C0F14	red	black	8.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.215
Mean Local Roughness	0.017
Roughness Uniformity	0.016
Edge Density	0.079
Mean Gradient Magnitude	0.16
Gradient Variance	0.045
Gradient Smoothness	0.0
Directional Coherence	0.014
Pattern Complexity	0.113
Pattern Repetition	1.0
Detail Frequency Ratio	0.593
Spatial Variation	0.165
Texture Consistency	0.378

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.49
Brightness Variance	0.215
Brightness Uniformity	0.561
Brightness Skewness	-0.086
Brightness Entropy	7.42
Rms Contrast	0.215
Michelson Contrast	1.0
Weber Contrast	0.741
Mean Local Contrast	0.02
Contrast Uniformity	0.031
Dynamic Range	1.0
Effective Dynamic Range	0.616
Shadow Percentage	26.567
Midtone Percentage	43.009
Highlight Percentage	30.424
Shadow Clipping	0.002
Highlight Clipping	0.004
Tonal Balance	0.104
Fine Contrast	0.008
Medium Contrast	0.025
Coarse Contrast	0.044
Multiscale Contrast Ratio	0.182
Edge Contrast	0.16
Contrast Clustering	0.622

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.782
Color Clustering	0.503
Color Transition Smoothness	0.587
Transition Uniformity	0.699
Sharp Transition Ratio	0.1
Transition Directionality	0.017
Mean Saturation	0.427
Saturation Variance	0.056
Low Saturation Ratio	0.331
Medium Saturation Ratio	0.521
High Saturation Ratio	0.148
Saturation Clustering	0.999
Hue Concentration	0.541
Complementary Balance	0.019
Analogous Dominance	0.703
Temperature Bias	0.606

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). G Minor - Research on Harmony - Variation 6 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0763.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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