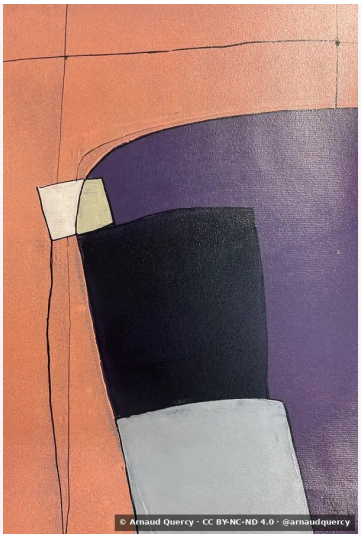
AQC0963 | NAN-COL000514

Nanopublication — Computational Image Analysis - AQC0963

by Arnaud Quercy · G Minor - Research on harmony - Variation 16 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0963

K-means clustering analysis [3] (10 colors) performed on artwork G Minor [1] - Research on harmony - Variation 16 (AQC0963) [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]: 1937x2905 pixels. Analysis date: 2026-03-05.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E08F71	21.0	orange	darksalmon
2		D07E5F	14.3	orange	peru
3		6C5B78	13.3	violet	dusty mauve
4		B4B4B7	12.5	gray	silver
5		121019	10.8	violet	black
6		4E415A	7.4	violet	dusty mauve
7		2C2C35	6.2	violet	very dark gray
8		E5AF96	5.5	orange	burlywood
9		8D7E92	5.3	red-violet	dusty mauve
10		EAD4C6	3.7	orange	wheat
11		67271D	0.3	red-orange	russet [Accent]

Color Families:

Family	%
orange	44.5
violet	37.7
gray	12.5
red-violet	5.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
67271D	red-orange	russet	35.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.228
Mean Local Roughness	0.039
Roughness Uniformity	0.032
Edge Density	0.208
Mean Gradient Magnitude	0.287
Gradient Variance	0.099
Gradient Smoothness	0.0
Directional Coherence	0.01
Pattern Complexity	0.117
Pattern Repetition	1.0
Detail Frequency Ratio	0.679
Spatial Variation	0.186
Texture Consistency	0.622

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.499
Brightness Variance	0.228
Brightness Uniformity	0.543
Brightness Skewness	-0.594
Brightness Entropy	7.534
Rms Contrast	0.228
Michelson Contrast	1.0
Weber Contrast	0.851
Mean Local Contrast	0.04
Contrast Uniformity	0.214
Dynamic Range	1.0
Effective Dynamic Range	0.722
Shadow Percentage	24.416
Midtone Percentage	50.727
Highlight Percentage	24.857
Shadow Clipping	0.001
Highlight Clipping	0.004
Tonal Balance	0.143
Fine Contrast	0.024
Medium Contrast	0.049
Coarse Contrast	0.062
Multiscale Contrast Ratio	0.381
Edge Contrast	0.287
Contrast Clustering	0.378

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.747
Color Clustering	0.796
Color Transition Smoothness	0.26
Transition Uniformity	0.333
Sharp Transition Ratio	0.1
Transition Directionality	0.012
Mean Saturation	0.334
Saturation Variance	0.035
Low Saturation Ratio	0.444
Medium Saturation Ratio	0.546
High Saturation Ratio	0.01
Saturation Clustering	0.997
Hue Concentration	0.541
Complementary Balance	0.011
Analogous Dominance	0.582
Temperature Bias	0.528

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). G Minor - Research on harmony - Variation 16 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0963.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2026/03/g-minor-research-on-harmony-variation-16_1ymm.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

chromesthetic mapping · G minor chord · piano studies · synesthetic art · acrylic painting · harmonic visualization · color-pitch correspondence · cycle of fifths

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

d9763dd00ad8e333e5d03355a42efd11243a6ac69a3e0934e822a096ce2061b9

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