

Nanopublication – Computational Image Analysis –
AQC0957

by Arnaud Quercy · G Minor – Research on Harmony – Variations 14 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0957

Computational image analysis [3] of artwork G Minor [1] – Research on Harmony – Variations 14 (AQC0957) [2] by Arnaud Quercy [2] 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 2026-03-05.

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]: 1846x2769 pixels. Analysis date: 2026-03-05.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		B3AEAC	16.1	gray	steel gray
2		C5C2BD	15.1	gray	silver
3		73647E	12.2	violet	dusty mauve
4		1A1A24	12.1	violet	very dark gray
5		594D65	9.6	violet	dusty mauve
6		32343F	8.3	violet	dusty mauve
7		F0A07D	8.0	orange	darksalmon
8		DD8C6A	7.3	orange	lightcoral
9		918395	7.2	red-violet	dusty mauve
10		E8DFE0	4.1	white	gainsboro
11		F9ECB9	0.3	yellow	moccasin [Accent]
12		71473E	0.3	red-orange	dark brown [Accent]
13		E5C59A	0.3	yellow-orange	burlywood [Accent]

Color Families:

Family	%
violet	42.2
gray	31.2
orange	15.3
red-violet	7.2
white	4.1
yellow	0.3
red-orange	0.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
F9ECB9	yellow	moccasin	26.2
71473E	red-orange	dark brown	21.4
E5C59A	yellow-orange	burlywood	26.5

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.241
Mean Local Roughness	0.044
Roughness Uniformity	0.035
Edge Density	0.232
Mean Gradient Magnitude	0.353
Gradient Variance	0.135
Gradient Smoothness	0.0
Directional Coherence	0.007
Pattern Complexity	0.112
Pattern Repetition	1.0
Detail Frequency Ratio	0.676
Spatial Variation	0.193
Texture Consistency	0.482

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.518
Brightness Variance	0.241
Brightness Uniformity	0.536
Brightness Skewness	-0.396
Brightness Entropy	7.607
Rms Contrast	0.241
Michelson Contrast	0.992
Weber Contrast	0.817
Mean Local Contrast	0.049
Contrast Uniformity	0.213
Dynamic Range	0.996
Effective Dynamic Range	0.718
Shadow Percentage	25.512
Midtone Percentage	33.696
Highlight Percentage	40.792
Shadow Clipping	0.0
Highlight Clipping	0.002
Tonal Balance	0.218
Fine Contrast	0.021
Medium Contrast	0.059
Coarse Contrast	0.073
Multiscale Contrast Ratio	0.29
Edge Contrast	0.353
Contrast Clustering	0.518

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.738
Color Clustering	0.888
Color Transition Smoothness	0.091
Transition Uniformity	0.151
Sharp Transition Ratio	0.1
Transition Directionality	0.007
Mean Saturation	0.213
Saturation Variance	0.027
Low Saturation Ratio	0.752
Medium Saturation Ratio	0.246
High Saturation Ratio	0.001
Saturation Clustering	0.999
Hue Concentration	0.483
Complementary Balance	0.021
Analogous Dominance	0.644
Temperature Bias	0.122

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 - Variations 14 - Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0957.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2026/03/g-minor-research-on-harmony-variations-14_1yka.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

synesthetic art

piano studies

acrylic on paper

harmonic visualization

musical color theory

contemporary painting

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

57612964d593fff78ae5f8e3cc1bc20abdfa31f9ff36cbf63b6d332190f7dc16

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Artist	Arnaud Quercy
Date	2026
Collection	Synesthetic Explorations
Certificate	20260305-0009
Asset code	AQC0957
Identifier	NAN-COL000508
Version	1
Published	2026-03-05

ISSN: [pending – Library of Congress]

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Published by Art Quam Anima Publishing New York,
an imprint of AQA PUBLISHING LLC

c/o Northwest Registered Agent, 418 Broadway Ste N
Albany, NY 12207, USA
+1 917-764-5470

publishing.artquamanima.com

Last updated: 2026-06-03

Persistent URI: <https://multimodal.institute/en/nanopubs/2026/03/AQC0957-computational-image-analysis-aqc0957.pdf>