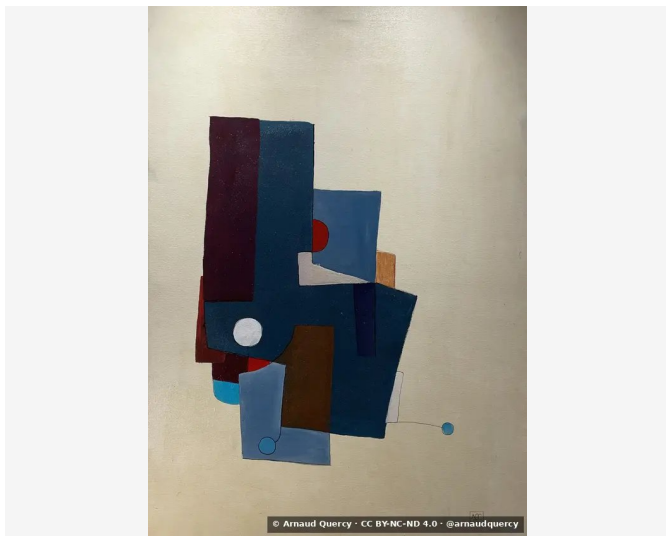


Nanopublication – Computational Image Analysis – AQC0600

by Arnaud Quercy · F minor - Research on Harmony - Variation 6 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0600

Computational image analysis [3] of artwork F minor - Research [1] on Harmony - Variation 6 (AQC0600) [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 2025-12-09.

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]: 2172x3041 pixels. Analysis date: 2025-12-09.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D4CEBD	15.3	yellow	lightgray
2		C7BFAA	14.7	yellow-orange	silver
3		A69C87	13.0	yellow-orange	rosybrown
4		B8AE98	12.7	yellow-orange	steel gray
5		0A1F34	11.5	blue-violet	very dark indigo
6		968A76	9.8	yellow-orange	gray
7		311315	8.3	red-orange	very dark red
8		E5E1D0	8.1	yellow	gainsboro
9		3B5C78	3.4	blue-violet	grayish purple
10		28435E	3.2	blue-violet	grayish purple
11		0F7BA2	0.3	blue	darkcyan [Accent]
12		9D683D	0.3	orange	burnt sienna [Accent]
13		000213	0.3	violet	black [Accent]

Color Families:

Family	%
yellow-orange	50.2
yellow	23.4
blue-violet	18.1
red-orange	8.3
blue	0.3
orange	0.3
violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
0F7BA2	blue	darkcyan	31.8
9D683D	orange	burnt sienna	37.1
000213	violet	black	7.3

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.267
Mean Local Roughness	0.025
Roughness Uniformity	0.019
Edge Density	0.1
Mean Gradient Magnitude	0.16
Gradient Variance	0.03
Gradient Smoothness	0.0
Directional Coherence	0.03
Pattern Complexity	0.156
Pattern Repetition	1.0
Detail Frequency Ratio	0.658
Spatial Variation	0.191
Texture Consistency	0.432

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.568
Brightness Variance	0.267
Brightness Uniformity	0.53
Brightness Skewness	-0.776
Brightness Entropy	7.366
Rms Contrast	0.267
Michelson Contrast	1.0
Weber Contrast	0.869
Mean Local Contrast	0.022
Contrast Uniformity	0.267
Dynamic Range	1.0
Effective Dynamic Range	0.784
Shadow Percentage	24.805
Midtone Percentage	26.745
Highlight Percentage	48.449
Shadow Clipping	0.004
Highlight Clipping	0.0
Tonal Balance	0.094
Fine Contrast	0.015
Medium Contrast	0.027
Coarse Contrast	0.031
Multiscale Contrast Ratio	0.475
Edge Contrast	0.16
Contrast Clustering	0.568

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.738
Color Clustering	0.923
Color Transition Smoothness	0.598
Transition Uniformity	0.813
Sharp Transition Ratio	0.1
Transition Directionality	0.032
Mean Saturation	0.298
Saturation Variance	0.07
Low Saturation Ratio	0.737
Medium Saturation Ratio	0.115
High Saturation Ratio	0.148
Saturation Clustering	0.999
Hue Concentration	0.11
Complementary Balance	0.213
Analogous Dominance	0.57
Temperature Bias	0.154

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 (2024). F minor - Research on Harmony - Variation 6 - Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0600.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/f-minor-research-on-harmony-variation-6_6pk.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 F minor chord circle of fifths

acrylic painting geometric harmony

synesthetic translation musical visualization

Synesthetic Explorations Arnaud Quercy

contemporary chromesthesia

EPISTEMIC PROFILE

Claim type computational analysis

Voice third person

Epistemic status empirical measurement

Methodology computational analysis

Certainty high

CHECKSUM (SHA-256)

ff57c4dc3491799505a1ede6e6ba49c6c045306f537afe257faf6b18ce59dba0

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