AQC0564

Nanopublication — Computational Image Analysis - AQC0564

by Arnaud Quercy · A la façon de Rothko, pour Frederique · 2024

Claim 1: Computational Image Analysis - AQC0564

> The artwork A la façon de Rothko [1], pour Frederique (AQC0564) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

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]: 1080x1920 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		FEFEFE	37.7	white	white
2		E66F70	19.8	red-orange	lightcoral
3		9A9899	16.2	gray	steel gray
4		092A63	7.0	violet	very dark purple
5		1C4287	6.6	violet	darkslateblue
6		405991	4.4	blue-violet	grayish purple
7		111C37	3.1	violet	very dark purple
8		E8818D	2.8	red-orange	palevioletred
9		404155	1.8	violet	dusty mauve
10		D1C6C7	0.6	white	lightgray
11		A3687D	0.3	red	dusty mauve [Accent]
12		5A3B2C	0.3	orange	dark brown [Accent]
13		856A88	0.3	red-violet	dusty mauve [Accent]
14		302B21	0.3	yellow-orange	very dark gray [Accent]

Color Families:

Family	%
white	38.3
red-orange	22.6
violet	18.4
gray	16.2
blue-violet	4.4
red	0.3
orange	0.3
red-violet	0.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
A3687D	red	dusty mauve	27.1
5A3B2C	orange	dark brown	19.2
856A88	red-violet	dusty mauve	20.0
302B21	yellow-orange	very dark gray	8.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.303
Mean Local Roughness	0.015
Roughness Uniformity	0.027
Edge Density	0.032
Mean Gradient Magnitude	0.075
Gradient Variance	0.05
Gradient Smoothness	0.0
Directional Coherence	0.514
Pattern Complexity	0.121
Pattern Repetition	1.0
Detail Frequency Ratio	0.624
Spatial Variation	0.173
Texture Consistency	0.461

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.663
Brightness Variance	0.303
Brightness Uniformity	0.542
Brightness Skewness	-0.277
Brightness Entropy	4.674
Rms Contrast	0.303
Michelson Contrast	1.0
Weber Contrast	0.808
Mean Local Contrast	0.013
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.859
Shadow Percentage	20.052
Midtone Percentage	40.7
Highlight Percentage	39.248
Shadow Clipping	0.002
Highlight Clipping	37.476
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.017
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.075

Metric	Value
Contrast Clustering	0.539

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.786
Color Clustering	0.834
Color Transition Smoothness	0.803
Transition Uniformity	0.676
Sharp Transition Ratio	0.1
Transition Directionality	0.516
Mean Saturation	0.284
Saturation Variance	0.11
Low Saturation Ratio	0.555
Medium Saturation Ratio	0.298
High Saturation Ratio	0.146
Saturation Clustering	0.999
Hue Concentration	0.367
Complementary Balance	0.002
Analogous Dominance	0.512
Temperature Bias	0.042

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). A la façon de Rothko, pour Frederique — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0564.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/a-la-facon-de-rothko-pour-frederique_6bk.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

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

c3ab87e115047d12b7eb6956c65ad-da3e85484ee156f9c51e57d466f5727d16a

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