AQC0307

Nanopublication — Computational Image Analysis - AQC0307

by Arnaud Quercy · Memories of the Rue des Rosiers - Paris · 2021

Claim 1: Computational Image Analysis - AQC0307

> Computational image analysis [3] of artwork Memories [1] of the Rue des Rosiers - Paris (AQC0307) [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 2026-02-04.

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]: 2480x3508 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		100F0F	20.7	black	black
2		A57036	14.4	orange	burnt sienna
3		29231F	12.2	gray	very dark gray
4		BF8744	9.9	orange	peru
5		A45907	9.4	orange	russet
6		D79F5B	9.0	orange	sandybrown
7		50351D	6.7	orange	dark brown
8		8B5E2E	6.6	orange	burnt sienna
9		7A420F	5.8	orange	russet
10		CC7B09	5.3	orange	darkgoldenrod
11		FBBF63	0.3	yellow-orange	sandybrown [Accent]
12		4F0E01	0.3	red-orange	very dark red [Accent]
13		9B8D12	0.3	yellow	darkgoldenrod [Accent]

Color Families:

Family	%
orange	67.1
black	20.7
gray	12.2
yellow-orange	0.3
red-orange	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
FBBF63	yellow-orange	sandybrown	55.3
4F0E01	red-orange	very dark red	37.0
9B8D12	yellow	darkgoldenrod	59.4

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.206
Mean Local Roughness	0.004
Roughness Uniformity	0.005
Edge Density	0.01
Mean Gradient Magnitude	0.046
Gradient Variance	0.007
Gradient Smoothness	0.0
Directional Coherence	0.241
Pattern Complexity	0.101
Pattern Repetition	1.0
Detail Frequency Ratio	0.547
Spatial Variation	0.134
Texture Consistency	0.612

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.341
Brightness Variance	0.206
Brightness Uniformity	0.396
Brightness Skewness	-0.05
Brightness Entropy	7.36
Rms Contrast	0.206
Michelson Contrast	1.0
Weber Contrast	0.904
Mean Local Contrast	0.005
Contrast Uniformity	0.0
Dynamic Range	0.871
Effective Dynamic Range	0.604
Shadow Percentage	44.146
Midtone Percentage	52.185
Highlight Percentage	3.668
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.118
Fine Contrast	0.002
Medium Contrast	0.006
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.046
Contrast Clustering	0.388

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.735
Color Clustering	0.414

Metric	Value
Color Transition Smoothness	0.857
Transition Uniformity	0.94
Sharp Transition Ratio	0.1
Transition Directionality	0.248
Mean Saturation	0.598
Saturation Variance	0.071
Low Saturation Ratio	0.18
Medium Saturation Ratio	0.515
High Saturation Ratio	0.305
Saturation Clustering	0.999
Hue Concentration	0.754
Complementary Balance	0.117
Analogous Dominance	0.867
Temperature Bias	0.753

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 (2021). Memories of the Rue des Rosiers - Paris — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0307.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2021/01/memories-of-the-rue-des-rosiers-paris_3jm.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)

baa2ce2d7f9eb0c232958756d5f86c-c7287445510d9ac1d6c42a1c0c0903d646

Artist	Arnaud Quercy
Date	2021
Collection	City of Lights, Shadows of Thoughts
Certificate	20211231-0114
Asset code	AQC0307
Version	1
Published	2026-04-09

Published by: Art Quam Anima Publishing New York LLC — publishing.artquamanima.com

Date of publication: 2026-04-09

Persistent URI: https://multimodal.institute/en/nanopubs/2026/02/AQC0307-computational-image-analysis-aqc0307.pdf