AQC1095

Nanopublication — Computational Image Analysis - AQC1095

by Arnaud Quercy · Saint-Sulpice Station, Line 4 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1095

The artwork Saint-Sulpice Station, Line 4 (AQC1095) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-08-26. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/ contrast, spatial patterns.

CONTEXT

Analysis performed according to IDS-CMP-2025 [3] includes four metric categories: (a) Color distribution via k-means (10 colors), (b) Texture analysis using Haralick features, (c) Brightness and contrast measurements, (d) Spatial pattern characterization. Source image: 2080x2688 pixels. Analysis date: 2026-08-26.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		53404D	15.3	red-violet	dusty mauve
2		A7ABAF	13.3	gray	steel gray
3		EC6E1B	12.8	orange	chocolate
4		9A9C9E	11.9	gray	steel gray
5		201B17	11.7	gray	very dark gray
6		E87F58	11.3	orange	coral
7		DC5C40	7.6	red-orange	indianred
8		EAA47C	6.9	orange	darksalmon
9		6D7667	5.1	yellow-green	dimgray
10		DDD4C5	4.1	yellow-orange	lightgray

Color Families:

Family	%
gray	36.8
orange	31.1
red-violet	15.3
red-orange	7.6
yellow-green	5.1
yellow-orange	4.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.201
Mean Local Roughness	0.013
Roughness Uniformity	0.01
Edge Density	0.011
Mean Gradient Magnitude	0.085
Gradient Variance	0.011
Gradient Smoothness	0.0
Directional Coherence	0.019
Pattern Complexity	0.134
Pattern Repetition	1.0
Detail Frequency Ratio	0.637
Spatial Variation	0.156
Texture Consistency	0.248

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.501
Brightness Variance	0.201
Brightness Uniformity	0.599
Brightness Skewness	-0.655
Brightness Entropy	7.198
Rms Contrast	0.201
Michelson Contrast	1.0
Weber Contrast	0.785
Mean Local Contrast	0.012
Contrast Uniformity	0.167
Dynamic Range	0.996
Effective Dynamic Range	0.655
Shadow Percentage	25.831
Midtone Percentage	56.748
Highlight Percentage	17.421
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.009
Medium Contrast	0.015
Coarse Contrast	0.018
Multiscale Contrast Ratio	0.505
Edge Contrast	0.085
Contrast Clustering	0.752

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.752
Color Clustering	0.586
Color Transition Smoothness	0.778
Transition Uniformity	0.926
Sharp Transition Ratio	0.1
Transition Directionality	0.021
Mean Saturation	0.361
Saturation Variance	0.089
Low Saturation Ratio	0.567
Medium Saturation Ratio	0.261
High Saturation Ratio	0.173
Saturation Clustering	1.0
Hue Concentration	0.896
Complementary Balance	0.0
Analogous Dominance	0.916
Temperature Bias	0.982

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 Ideamorphic Studies' computational imaging systems.

REFERENCES

[1] Quercy, A. (2026). Saint-Sulpice Station, Line 4 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1095.html

[2] Quercy, A. (2025). ORCID https://orcid.org/0009-0000-2662-7790

[3] Quercy, A. (2026). Computational Image Analysis Standard. https://ideamorphism.org/en/measurements/2025/11/ids-cmp-2025-computational-image-analysis-standard-5dq9.html

EPISTEMIC PROFILE

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

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