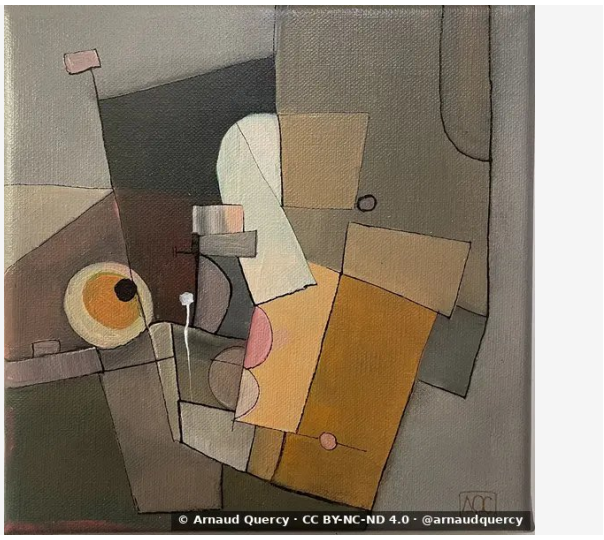
AQC0579 | NAN-COL000364

Nanopublication — Computational Image Analysis - AQC0579

by Arnaud Quercy · Reader Of Parc Monceau, Paris · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0579

K-means clustering (10 colors) performed on artwork Reader Of Parc Monceau, Paris (AQC0579) [1] by Arnaud Quercy [2] on 2025-10-03, according to IDS-CMP-2025 [3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

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: 2727x2727 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		6E6457	18.5	yellow-orange	dimgray
2		857766	15.3	yellow-orange	gray
3		595044	15.0	yellow-orange	dark brown
4		3E372B	13.8	yellow-orange	darkslategray
5		988E7F	12.3	yellow-orange	grey
6		8D5E25	7.9	orange	burnt sienna
7		B4A895	6.6	yellow-orange	steel gray
8		D5CCB7	3.9	yellow-orange	silver
9		C6945E	3.9	orange	peru
10		190F0A	2.7	orange	black
11		D7918B	0.3	red-orange	darksalmon [Accent]

Color Families:

Family	%
yellow-orange	85.5
orange	14.5
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
D7918B	red-orange	darksalmon	29.5

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.163
Mean Local Roughness	0.034
Roughness Uniformity	0.026
Edge Density	0.197
Mean Gradient Magnitude	0.261
Gradient Variance	0.08
Gradient Smoothness	0.0
Directional Coherence	0.02
Pattern Complexity	0.123
Pattern Repetition	1.0
Detail Frequency Ratio	0.655
Spatial Variation	0.069
Texture Consistency	0.658

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.428
Brightness Variance	0.163
Brightness Uniformity	0.619
Brightness Skewness	0.244
Brightness Entropy	7.365
Rms Contrast	0.163
Michelson Contrast	1.0
Weber Contrast	0.65
Mean Local Contrast	0.036
Contrast Uniformity	0.265
Dynamic Range	1.0
Effective Dynamic Range	0.533
Shadow Percentage	26.178
Midtone Percentage	65.846
Highlight Percentage	7.976
Shadow Clipping	0.028
Highlight Clipping	0.004
Tonal Balance	0.07
Fine Contrast	0.02
Medium Contrast	0.045
Coarse Contrast	0.064
Multiscale Contrast Ratio	0.315
Edge Contrast	0.261
Contrast Clustering	0.342

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.721
Color Clustering	0.647
Color Transition Smoothness	0.312
Transition Uniformity	0.449
Sharp Transition Ratio	0.1
Transition Directionality	0.021
Mean Saturation	0.285
Saturation Variance	0.042
Low Saturation Ratio	0.651
Medium Saturation Ratio	0.271
High Saturation Ratio	0.077
Saturation Clustering	0.998
Hue Concentration	0.986
Complementary Balance	0.0
Analogous Dominance	0.999
Temperature Bias	0.991

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. (2024). Reader Of Parc Monceau, Paris - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0579.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/2025/09/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

CHECKSUM (SHA-256)

58a5c1ace4efd87899a56b85d5107cc01be8f15e27c4537ea3da495652c8e7c0

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