AQC0377

Nanopublication — Computational Image Analysis - AQC0377

by Arnaud Quercy · The traveler · 2022

Claim 1: Computational Image Analysis - AQC0377

> Analysis record [3]: The [1] traveler (AQC0377) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2025-12-13.

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]: 1024x1024 pixels. Analysis date: 2025-12-13.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		755345	19.1	orange	dimgray
2		64493E	17.4	orange	dark brown
3		42312A	15.0	orange	darkslategray
4		533E35	14.6	orange	dark brown
5		86614E	12.4	orange	dimgrey
6		2E241F	7.0	orange	very dark gray
7		9F7457	5.9	orange	indianred
8		020101	4.5	black	black
9		B38B67	3.5	orange	rosybrown
10		E4DCD5	0.6	white	gainsboro
11		FFFCF0	0.3	yellow	white [Accent]
12		FDF8EC	0.3	yellow-orange	white [Accent]

Color Families:

Family	%
orange	95.0
black	4.5
white	0.6
yellow	0.3
yellow-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
FFFCF0	yellow	white	6.1
FDF8EC	yellow-orange	white	6.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.129
Mean Local Roughness	0.025
Roughness Uniformity	0.027
Edge Density	0.128
Mean Gradient Magnitude	0.192
Gradient Variance	0.071
Gradient Smoothness	0.0
Directional Coherence	0.031
Pattern Complexity	0.129
Pattern Repetition	1.0
Detail Frequency Ratio	0.66
Spatial Variation	0.048
Texture Consistency	0.779

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.311
Brightness Variance	0.129
Brightness Uniformity	0.585
Brightness Skewness	0.367
Brightness Entropy	6.811
Rms Contrast	0.129
Michelson Contrast	1.0
Weber Contrast	0.624
Mean Local Contrast	0.026
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.416
Shadow Percentage	55.933
Midtone Percentage	43.432
Highlight Percentage	0.636
Shadow Clipping	3.29
Highlight Clipping	0.001
Tonal Balance	0.0
Fine Contrast	0.014
Medium Contrast	0.033
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.192
Contrast Clustering	0.221

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.653
Color Clustering	0.755
Color Transition Smoothness	0.472
Transition Uniformity	0.526
Sharp Transition Ratio	0.1
Transition Directionality	0.032

Metric	Value
Mean Saturation	0.38
Saturation Variance	0.015
Low Saturation Ratio	0.157
Medium Saturation Ratio	0.829
High Saturation Ratio	0.014
Saturation Clustering	0.996
Hue Concentration	0.988
Complementary Balance	0.002
Analogous Dominance	0.995
Temperature Bias	0.993

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 (2022). The traveler — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0377.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2022/08/the-traveler_4au.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)

85970990d0fa5ba3c8b4aad4466301a6df03924db23a4df83cb86934d-d56549b

Artist	Arnaud Quercy
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