AQC0424

Nanopublication — Computational Image Analysis - AQC0424

by Arnaud Quercy · A Happy Man · 2023

Claim 1: Computational Image Analysis - AQC0424

> Analysis record [3]: A Happy [1] Man (AQC0424) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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]: 1440x1800 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		979690	17.4	gray	gray
2		CDB4AC	15.6	red-orange	silver
3		DBC9C0	15.0	orange	lightgray
4		AEA79F	13.9	yellow-orange	steel gray
5		84867F	13.3	gray	grey
6		A96A63	6.9	red-orange	indianred
7		C48881	5.8	red-orange	rosybrown
8		6D715B	5.2	yellow-green	dimgray
9		2F373C	4.0	gray	darkslategray
10		815833	2.9	orange	burnt sienna
11		5D550D	0.3	yellow	dark brown [Accent]
12		091826	0.3	blue-violet	very dark gray [Accent]
13		072232	0.3	blue	very dark gray [Accent]
14		0D1F21	0.3	blue-green	very dark gray [Accent]

Color Families:

Family	%
gray	34.7
red-orange	28.3
orange	17.8
yellow-orange	13.9
yellow-green	5.2
yellow	0.3
blue-violet	0.3
blue	0.3
blue-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
5D550D	yellow	dark brown	40.3
091826	blue-violet	very dark gray	11.2
072232	blue	very dark gray	13.6
0D1F21	blue-green	very dark gray	8.1

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.148
Mean Local Roughness	0.043
Roughness Uniformity	0.018
Edge Density	0.302
Mean Gradient Magnitude	0.284
Gradient Variance	0.041
Gradient Smoothness	0.292
Directional Coherence	0.008
Pattern Complexity	0.14
Pattern Repetition	1.0
Detail Frequency Ratio	0.685
Spatial Variation	0.075
Texture Consistency	0.607

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.61
Brightness Variance	0.148
Brightness Uniformity	0.757
Brightness Skewness	-0.722
Brightness Entropy	7.15
Rms Contrast	0.148
Michelson Contrast	1.0
Weber Contrast	0.45
Mean Local Contrast	0.039
Contrast Uniformity	0.627
Dynamic Range	1.0
Effective Dynamic Range	0.478
Shadow Percentage	4.73
Midtone Percentage	57.504
Highlight Percentage	37.766
Shadow Clipping	0.003
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.03
Medium Contrast	0.049
Coarse Contrast	0.056
Multiscale Contrast Ratio	0.525
Edge Contrast	0.284
Contrast Clustering	0.393

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.717
Color Clustering	0.706
Color Transition Smoothness	0.291
Transition Uniformity	0.738
Sharp Transition Ratio	0.1
Transition Directionality	0.008
Mean Saturation	0.19
Saturation Variance	0.02
Low Saturation Ratio	0.823
Medium Saturation Ratio	0.165
High Saturation Ratio	0.012
Saturation Clustering	0.999
Hue Concentration	0.692
Complementary Balance	0.102
Analogous Dominance	0.841
Temperature Bias	0.655

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 (2023). A Happy Man — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0424.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2023/01/a-happy-man_4t4.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)

6e83427a77d9d1c93843f923414871620c71f0293e-ba3405fe49cb95550b254e

Artist	Arnaud Quercy
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