AQC0483 | NAN-COL000441

Nanopublication — Computational Image Analysis - AQC0483

by Arnaud Quercy · The heart of the traveller · 2023

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0483

Analysis record [3]: The [1] heart of the traveller (AQC0483) [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]: 1366x2048 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		CFC5C2	24.0	white	silver
2		BAAFAF	17.8	gray	steel gray
3		E2DAD9	15.6	white	gainsboro
4		9B969D	9.4	gray	steel gray
5		691E1B	7.4	red-orange	maroon
6		525047	6.4	yellow	darkslategray
7		302F30	5.9	gray	darkslategrey
8		74747A	5.4	gray	dusty mauve
9		8F201F	4.4	red-orange	brown
10		A67D58	3.6	orange	peru
11		B8842E	0.3	yellow-orange	peru [Accent]
12		BFD6EF	0.3	blue-violet	powderblue [Accent]
13		A35F76	0.3	red	dusty mauve [Accent]
14		E0F4FC	0.3	blue	white [Accent]
15		98A86F	0.3	yellow-green	darkseagreen [Accent]

Color Families:

Family	%
white	39.6
gray	38.6
red-orange	11.8
yellow	6.4
orange	3.6
yellow-orange	0.3
blue-violet	0.3
red	0.3
blue	0.3
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
B8842E	yellow-orange	peru	53.4
BFD6EF	blue-violet	powderblue	15.1
A35F76	red	dusty mauve	31.0
E0F4FC	blue	white	7.8
98A86F	yellow-green	darkseagreen	31.8

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.239
Mean Local Roughness	0.051
Roughness Uniformity	0.036
Edge Density	0.276
Mean Gradient Magnitude	0.351
Gradient Variance	0.119
Gradient Smoothness	0.02
Directional Coherence	0.004
Pattern Complexity	0.11
Pattern Repetition	1.0
Detail Frequency Ratio	0.669
Spatial Variation	0.13
Texture Consistency	0.756

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.607
Brightness Variance	0.239
Brightness Uniformity	0.607
Brightness Skewness	-0.648
Brightness Entropy	7.484
Rms Contrast	0.239
Michelson Contrast	1.0
Weber Contrast	0.743
Mean Local Contrast	0.049
Contrast Uniformity	0.342
Dynamic Range	1.0
Effective Dynamic Range	0.694
Shadow Percentage	21.822
Midtone Percentage	22.933
Highlight Percentage	55.246
Shadow Clipping	0.004
Highlight Clipping	0.028
Tonal Balance	0.15
Fine Contrast	0.029
Medium Contrast	0.06
Coarse Contrast	0.069
Multiscale Contrast Ratio	0.424
Edge Contrast	0.351
Contrast Clustering	0.244

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.683
Color Clustering	0.879
Color Transition Smoothness	0.131
Transition Uniformity	0.249
Sharp Transition Ratio	0.1
Transition Directionality	0.004
Mean Saturation	0.216
Saturation Variance	0.054
Low Saturation Ratio	0.789
Medium Saturation Ratio	0.118
High Saturation Ratio	0.093
Saturation Clustering	0.999
Hue Concentration	0.507
Complementary Balance	0.148
Analogous Dominance	0.689
Temperature Bias	0.515

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). The heart of the traveller — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0483.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2023/01/the-heart-of-the-traveller_5g2.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)

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