AQC0494 | NAN-COL000437

Nanopublication — Computational Image Analysis - AQC0494

by Arnaud Quercy · Wills Odyssey · 2023

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0494

Computational image analysis of artwork Wills Odyssey (AQC0494) [1] by Arnaud Quercy [2], performed according to IDS-CMP-2025 [3], using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 2025-10-03.

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: 1920x2560 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		3B262F	27.3	red	very dark gray
2		556B79	16.1	blue	dimgray
3		6F7C84	11.7	blue	blue gray
4		5882AB	11.2	blue-violet	grayish purple
5		6A575A	8.8	red	dimgrey
6		A1CAD5	6.6	blue-green	lightsteelblue
7		DEC2A6	5.5	orange	tan
8		B78F7C	4.7	orange	rosybrown
9		EB842C	4.0	orange	peru
10		903D31	4.0	red-orange	burnt sienna
11		F8E8D5	0.3	yellow-orange	antiquewhite [Accent]
12		39467C	0.3	violet	dusty mauve [Accent]
13		CDD5CB	0.3	yellow-green	lightgray [Accent]
14		D7D6CD	0.3	yellow	lightgray [Accent]

Color Families:

Family	%
red	36.1
blue	27.8
orange	14.3
blue-violet	11.2
blue-green	6.6
red-orange	4.0
yellow-orange	0.3
violet	0.3
yellow-green	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
F8E8D5	yellow-orange	antiquewhite	11.2
39467C	violet	dusty mauve	33.8
CDD5CB	yellow-green	lightgray	6.4
D7D6CD	yellow	lightgray	5.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.191
Mean Local Roughness	0.012
Roughness Uniformity	0.021
Edge Density	0.034
Mean Gradient Magnitude	0.085
Gradient Variance	0.04
Gradient Smoothness	0.0
Directional Coherence	0.228
Pattern Complexity	0.11
Pattern Repetition	1.0
Detail Frequency Ratio	0.626
Spatial Variation	0.127
Texture Consistency	0.515

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.415
Brightness Variance	0.191
Brightness Uniformity	0.541
Brightness Skewness	0.356
Brightness Entropy	7.3
Rms Contrast	0.191
Michelson Contrast	1.0
Weber Contrast	0.778
Mean Local Contrast	0.012
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.631
Shadow Percentage	30.799
Midtone Percentage	56.085
Highlight Percentage	13.116
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.007
Medium Contrast	0.015
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.085
Contrast Clustering	0.485

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.767
Color Clustering	0.528
Color Transition Smoothness	0.763
Transition Uniformity	0.726
Sharp Transition Ratio	0.1
Transition Directionality	0.22
Mean Saturation	0.348
Saturation Variance	0.034
Low Saturation Ratio	0.499
Medium Saturation Ratio	0.449
High Saturation Ratio	0.052
Saturation Clustering	0.999
Hue Concentration	0.26
Complementary Balance	0.205
Analogous Dominance	0.446
Temperature Bias	0.042

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. (2023). Wills Odyssey - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0494.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

CHECKSUM (SHA-256)

a032f10add3f712aa7dbcf30859124d1a2051db9f6a56ded0ce5d23fb82b96d7

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Artist Arnaud Quercy
Date 2023
Collection Transcendence
Certificate 20231231-0081
Asset code AQC0494
Identifier NAN-COL000437
Version 1
Published 2025-10-03

ISSN: applied for — U.S. ISSN Center, Library of Congress

© 2026 Ideamorphic Studies

Published by Art Quam Anima Publishing New York,
an assumed name of AQA Publishing LLC

c/o Northwest Registered Agent, 418 Broadway Ste N
Albany, NY 12207, USA
+1 917-764-5470

NY DOS ID 7624376 · Assumed Name ID 7658709

publishing.artquamanima.com

Last updated: 2026-10-12

Persistent URI: https://ideamorphism.org/en/nanopubs/2025/10/AQC0494-computational-image-analysis-aqc0494.pdf