

# Nanopublication — Computational Image Analysis - AQC0494

by Arnaud Quercy · Wills Odyssey · 2023

## Claim 1: Computational Image Analysis - AQC0494

The artwork Wills [1] Odyssey (AQC0494) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-12-17. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

### 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]: 1920x2560 pixels. Analysis date: 2025-12-17.

### 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

### 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

### 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

Metric	Value
Contrast Clustering	0.485

## 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 Multimodal Institute's computational imaging systems.

## REFERENCES

- [1] Arnaud Quercy (2023). Wills Odyssey — Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0494.html>
- [2] Quercy, A. (2025). Untitled - Gallery. [https://artquamanima.com/en/artworks/2023/01/wills-odyssey\\_5kc.html](https://artquamanima.com/en/artworks/2023/01/wills-odyssey_5kc.html)
- [3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 h <https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html>

## EPISTEMIC PROFILE

<b>Claim type</b>	computational analysis
<b>Voice</b>	third person
<b>Epistemic status</b>	empirical measurement
<b>Methodology</b>	computational analysis
<b>Certainty</b>	high

## CHECKSUM (SHA-256)

cfa9a8ebda9b06bfff9b9ae173686429f7d40ac519cb8e2bfe6196e6-ab9455cf

<b>Artist</b>	Arnaud Quercy
<b>Date</b>	2023
<b>Collection</b>	Transcendence
<b>Certificate</b>	20231231-0081
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