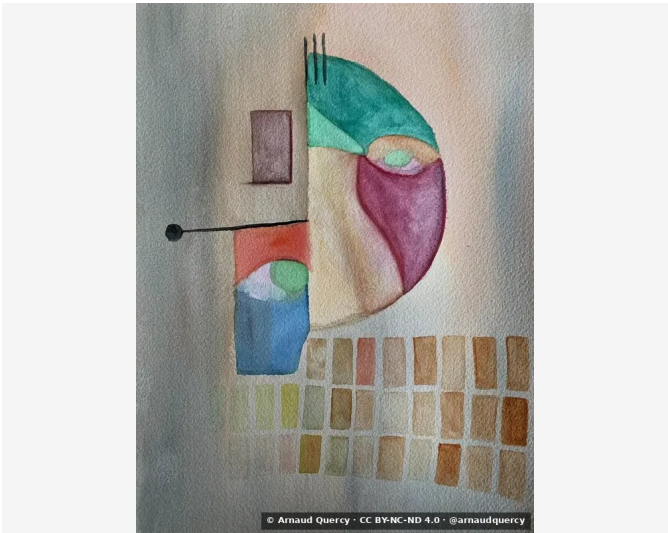


Nanopublication – Computational Image Analysis –
AQC0430

by Arnaud Quercy · The Stone Cutter · 2023



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0430

K-means clustering (10 colors) performed on artwork The Stone Cutter (AQC0430) ^[1] by Arnaud Quercy ^[2] on 2025-10-03, according to IDS-CMP-2025 ^[3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

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: 1536x2048 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		95928B	19.6	gray	gray
2		7D7F7A	18.8	gray	grey
3		AEA79D	16.3	yellow-orange	steel gray
4		C7BDB3	13.2	orange	silver
5		676965	13.1	gray	dimgray
6		987164	6.2	red-orange	dimgrey
7		7D4F43	5.0	red-orange	burnt sienna
8		2B7579	3.3	blue-green	seagreen
9		53969F	2.8	blue-green	cadetblue
10		442D25	1.6	red-orange	darkslategray
11		71C5AE	0.3	green	mediumaquamarine [Accent]
12		6DA985	0.3	yellow-green	cadetblue [Accent]
13		701B33	0.3	red	brown [Accent]
14		21435A	0.3	blue	grayish purple [Accent]
15		6399C9	0.3	blue-violet	cornflowerblue [Accent]

Color Families:

Family	%
gray	51.6
yellow-orange	16.3
orange	13.2
red-orange	12.8
blue-green	6.2
green	0.3
yellow-green	0.3
red	0.3
blue	0.3
blue-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
71C5AE	green	mediumaquamarine	31.3
6DA985	yellow-green	cadetblue	30.0
701B33	red	brown	39.6
21435A	blue	grayish purple	17.7
6399C9	blue-violet	cornflowerblue	30.3

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.132
Mean Local Roughness	0.035
Roughness Uniformity	0.016
Edge Density	0.26
Mean Gradient Magnitude	0.264
Gradient Variance	0.036
Gradient Smoothness	0.284
Directional Coherence	0.006
Pattern Complexity	0.112
Pattern Repetition	1.0
Detail Frequency Ratio	0.663
Spatial Variation	0.061
Texture Consistency	0.691

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.546
Brightness Variance	0.132
Brightness Uniformity	0.759
Brightness Skewness	-0.111
Brightness Entropy	7.062
Rms Contrast	0.132
Michelson Contrast	1.0
Weber Contrast	0.47
Mean Local Contrast	0.035
Contrast Uniformity	0.599
Dynamic Range	0.98
Effective Dynamic Range	0.416
Shadow Percentage	4.053
Midtone Percentage	74.994
Highlight Percentage	20.953
Shadow Clipping	0.006
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.021
Medium Contrast	0.044
Coarse Contrast	0.055
Multiscale Contrast Ratio	0.38
Edge Contrast	0.264
Contrast Clustering	0.309

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.7
Color Clustering	0.563
Color Transition Smoothness	0.332
Transition Uniformity	0.769
Sharp Transition Ratio	0.1
Transition Directionality	0.008
Mean Saturation	0.175
Saturation Variance	0.034
Low Saturation Ratio	0.816
Medium Saturation Ratio	0.161
High Saturation Ratio	0.023
Saturation Clustering	0.999
Hue Concentration	0.401
Complementary Balance	0.188
Analogous Dominance	0.672
Temperature Bias	0.425

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). The Stone Cutter - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0430.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/2025/09/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)

a782af32c389fb188869e5486872b9ecdcf299ea14aacdfb2e98d47752726e7d

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