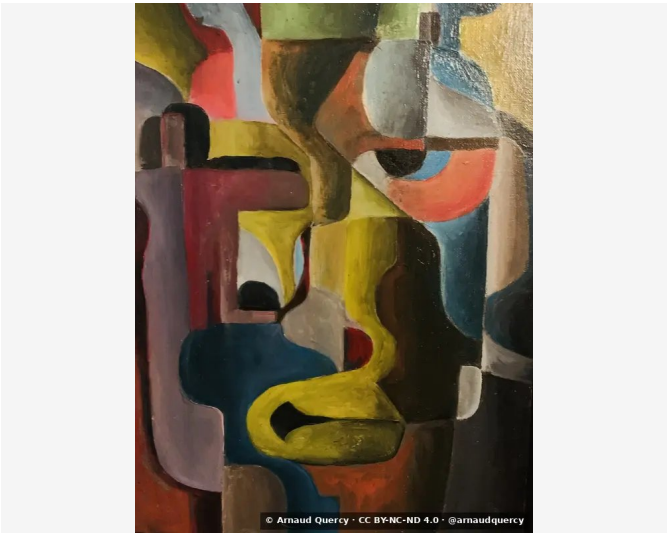


Nanopublication – Computational Image Analysis –
AQC0340

by Arnaud Quercy · Body and mind proportions - research on tensions #43 · 2022



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0340

Computational image analysis of artwork Body and mind proportions - research on tensions #43 (AQC0340) ^[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: 2915x3887 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		191812	19.8	yellow-green	black
2		2D2D28	14.6	gray	very dark gray
3		5F3420	14.6	orange	russet
4		5D4C44	9.6	orange	dark brown
5		C1B395	8.4	yellow-orange	tan
6		7A6A5A	8.3	orange	dimgray
7		999378	7.4	yellow	gray
8		AA8D26	7.0	yellow-orange	darkgoldenrod
9		816121	6.4	yellow-orange	russet
10		CB664A	3.8	red-orange	indianred
11		6C92A1	0.3	blue	lightslategray [Accent]
12		526F72	0.3	blue-green	dimgray [Accent]

Color Families:

Family	%
orange	32.5
yellow-orange	21.8
yellow-green	19.8
gray	14.6
yellow	7.4
red-orange	3.8
blue	0.3
blue-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
6C92A1	blue	lightslategray	15.0
526F72	blue-green	dimgray	11.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.196
Mean Local Roughness	0.008
Roughness Uniformity	0.009
Edge Density	0.016
Mean Gradient Magnitude	0.074
Gradient Variance	0.011
Gradient Smoothness	0.0
Directional Coherence	0.038
Pattern Complexity	0.122
Pattern Repetition	1.0
Detail Frequency Ratio	0.593
Spatial Variation	0.129
Texture Consistency	0.782

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.332
Brightness Variance	0.196
Brightness Uniformity	0.408
Brightness Skewness	0.474
Brightness Entropy	7.43
Rms Contrast	0.196
Michelson Contrast	1.0
Weber Contrast	0.849
Mean Local Contrast	0.009
Contrast Uniformity	0.0
Dynamic Range	0.996
Effective Dynamic Range	0.6
Shadow Percentage	55.387
Midtone Percentage	38.222
Highlight Percentage	6.391
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.169
Fine Contrast	0.005
Medium Contrast	0.011
Coarse Contrast	0.018
Multiscale Contrast Ratio	0.252
Edge Contrast	0.074
Contrast Clustering	0.218

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.701
Color Clustering	0.635
Color Transition Smoothness	0.786
Transition Uniformity	0.928
Sharp Transition Ratio	0.1
Transition Directionality	0.043
Mean Saturation	0.459
Saturation Variance	0.052
Low Saturation Ratio	0.301
Medium Saturation Ratio	0.531
High Saturation Ratio	0.169
Saturation Clustering	1.0
Hue Concentration	0.741
Complementary Balance	0.11
Analogous Dominance	0.883
Temperature Bias	0.726

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. (2022). Body and mind proportions - research on tensions #43 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0340.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)

9ddd0cad42da0faffb87737577663cd6bc0ae98c561b40dbc7143a18e7fd4f86

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