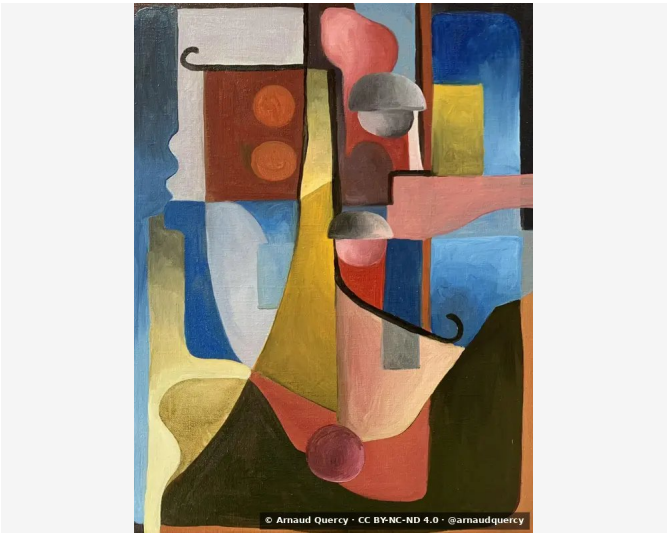


Nanopublication – Computational Image Analysis –
AQC0414

by Arnaud Quercy · The man and his moustache · 2023



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0414

Analysis record: The man and his moustache (AQC0414) ^[1] by Arnaud Quercy ^[2], per IDS-CMP-2025 ^[3]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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: 1540x2048 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		2F280E	21.5	yellow-orange	very dark green
2		D2C6AF	12.1	yellow-orange	silver
3		CB9572	11.5	orange	darksalmon
4		703C29	9.8	orange	russet
5		B68B35	9.0	yellow-orange	peru
6		AB5134	8.9	red-orange	burnt sienna
7		27456A	8.9	blue-violet	grayish purple
8		7FA5BD	8.3	blue	cadetblue
9		416F9A	5.6	blue-violet	grayish purple
10		7B7461	4.3	yellow	dimgray
11		082765	0.3	violet	very dark purple [Accent]
12		595A48	0.3	yellow-green	dark brown [Accent]
13		A1798C	0.3	red	dusty mauve [Accent]

Color Families:

Family	%
yellow-orange	42.6
orange	21.3
blue-violet	14.5
red-orange	8.9
blue	8.3
yellow	4.3
violet	0.3
yellow-green	0.3
red	0.3

Accent Colors:

Hex	Family	Name	Chroma
082765	violet	very dark purple	42.2
595A48	yellow-green	dark brown	10.8
A1798C	red	dusty mauve	19.4

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.219
Mean Local Roughness	0.019
Roughness Uniformity	0.017
Edge Density	0.083
Mean Gradient Magnitude	0.151
Gradient Variance	0.033
Gradient Smoothness	0.0
Directional Coherence	0.035
Pattern Complexity	0.121
Pattern Repetition	1.0
Detail Frequency Ratio	0.614
Spatial Variation	0.109
Texture Consistency	0.765

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.433
Brightness Variance	0.219
Brightness Uniformity	0.495
Brightness Skewness	0.189
Brightness Entropy	7.592
Rms Contrast	0.219
Michelson Contrast	1.0
Weber Contrast	0.799
Mean Local Contrast	0.02
Contrast Uniformity	0.182
Dynamic Range	1.0
Effective Dynamic Range	0.659
Shadow Percentage	39.193
Midtone Percentage	42.779
Highlight Percentage	18.028
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.32
Fine Contrast	0.01
Medium Contrast	0.025
Coarse Contrast	0.034
Multiscale Contrast Ratio	0.294
Edge Contrast	0.151
Contrast Clustering	0.235

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.673
Color Clustering	0.685
Color Transition Smoothness	0.596
Transition Uniformity	0.778
Sharp Transition Ratio	0.1
Transition Directionality	0.041
Mean Saturation	0.527
Saturation Variance	0.061
Low Saturation Ratio	0.21
Medium Saturation Ratio	0.47
High Saturation Ratio	0.32
Saturation Clustering	0.999
Hue Concentration	0.483
Complementary Balance	0.15
Analogous Dominance	0.758
Temperature Bias	0.507

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 man and his moustache - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0414.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)

6f599b25699ee65084b62a2fc231357e49c78779ef117fccd2ac52f5cae617a1

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