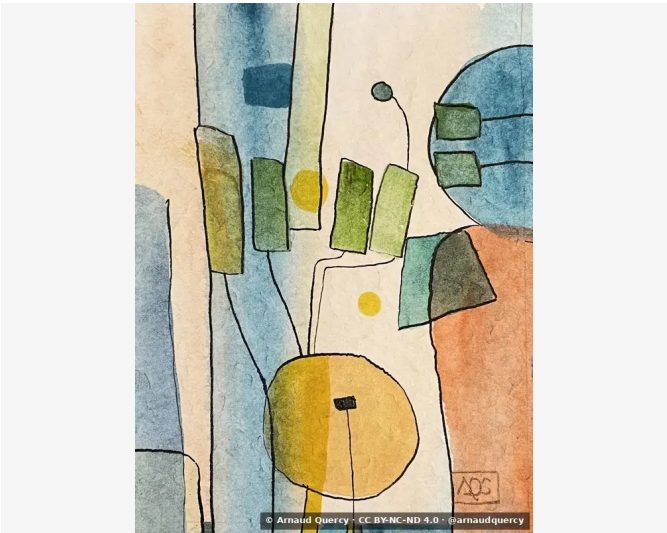


Nanopublication – Computational Image Analysis –
AQC0619

by Arnaud Quercy · Promenade aux jardins du Luxembourg – Variation 5 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS – AQC0619

K-means clustering (10 colors) performed on artwork Promenade aux jardins du Luxembourg – Variation 5 (AQC0619) ^[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: 1520x2027 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		ECDDC7	25.0	yellow-orange	bisque
2		DFA96F	16.0	orange	darksalmon
3		B1C0BD	12.7	green	silver
4		90AAAC	11.7	blue-green	steel gray
5		E1CFAD	11.0	yellow-orange	wheat
6		658A91	5.4	blue-green	blue gray
7		8E8B52	5.3	yellow	gray
8		4D5D4C	4.5	yellow-green	dark brown
9		1B1810	4.3	yellow-orange	black
10		CC9D2C	4.0	yellow-orange	goldenrod
11		2A586D	0.3	blue	darkslategray [Accent]

Color Families:

Family	%
yellow-orange	44.4
blue-green	17.0
orange	16.0
green	12.7
yellow	5.3
yellow-green	4.5
blue	0.3

Accent Colors:

Hex	Family	Name	Chroma
2A586D	blue	darkslategray	19.2

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.195
Mean Local Roughness	0.03
Roughness Uniformity	0.034
Edge Density	0.135
Mean Gradient Magnitude	0.231
Gradient Variance	0.148
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.123
Pattern Repetition	1.0
Detail Frequency Ratio	0.618
Spatial Variation	0.074
Texture Consistency	0.81

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.69
Brightness Variance	0.195
Brightness Uniformity	0.718
Brightness Skewness	-1.451
Brightness Entropy	7.177
Rms Contrast	0.195
Michelson Contrast	1.0
Weber Contrast	0.498
Mean Local Contrast	0.032
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.631
Shadow Percentage	6.413
Midtone Percentage	28.189
Highlight Percentage	65.398
Shadow Clipping	0.06
Highlight Clipping	0.005
Tonal Balance	0.0
Fine Contrast	0.017
Medium Contrast	0.04
Coarse Contrast	0.065
Multiscale Contrast Ratio	0.261
Edge Contrast	0.231
Contrast Clustering	0.19

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.692
Color Clustering	0.63
Color Transition Smoothness	0.411
Transition Uniformity	0.0
Sharp Transition Ratio	0.1
Transition Directionality	0.016
Mean Saturation	0.298
Saturation Variance	0.044
Low Saturation Ratio	0.643
Medium Saturation Ratio	0.302
High Saturation Ratio	0.055
Saturation Clustering	0.997
Hue Concentration	0.559
Complementary Balance	0.037
Analogous Dominance	0.753
Temperature Bias	0.443

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. (2024). Promenade aux jardins du Luxembourg - Variation 5 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0619.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

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