

# Nanopublication — Computational Image Analysis - AQC0427

by Arnaud Quercy · Parisian Thoroughfare · 2022

## Claim 1: Computational Image Analysis - AQC0427

Analysis record [3]: Parisian [1] Thoroughfare (AQC0427) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2026-02-04.

### 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]: 1536x2048 pixels. Analysis date: 2026-02-04.

### COLOR ANALYSIS

Rank	Color Hex	%	Family	Name
1	4F3E2C	15.7	orange	dark brown
2	755744	13.4	orange	dimgray
3	EAAF93	13.3	orange	burlywood
4	99725F	11.3	orange	gray
5	302012	10.0	orange	very dark gray
6	BD9681	9.0	orange	rosybrown
7	B84F30	8.5	red-orange	burnt sienna
8	D37559	8.4	red-orange	indianred
9	83381F	5.8	red-orange	russet
10	F3DEC4	4.6	yellow-orange	bisque
11	FCFDF1	0.3	yellow	white [Accent]
12	F9F9E8	0.3	yellow-green	white [Accent]

### Color Families:

Family	%
orange	72.6
red-orange	22.8
yellow-orange	4.6
yellow	0.3
yellow-green	0.3

### Accent Colors:

Hex	Family	Name	Chroma
FCFDF1	yellow	white	6.3
F9F9E8	yellow-green	white	8.5

### TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.211
Mean Local Roughness	0.041
Roughness Uniformity	0.035

Metric	Value
Edge Density	0.195
Mean Gradient Magnitude	0.319
Gradient Variance	0.138
Gradient Smoothness	0.0
Directional Coherence	0.024
Pattern Complexity	0.101
Pattern Repetition	1.0
Detail Frequency Ratio	0.649
Spatial Variation	0.075
Texture Consistency	0.864

### BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.455
Brightness Variance	0.211
Brightness Uniformity	0.536
Brightness Skewness	0.31
Brightness Entropy	7.704
Rms Contrast	0.211
Michelson Contrast	1.0
Weber Contrast	0.741
Mean Local Contrast	0.045
Contrast Uniformity	0.186
Dynamic Range	1.0
Effective Dynamic Range	0.667
Shadow Percentage	32.135
Midtone Percentage	47.785
Highlight Percentage	20.08
Shadow Clipping	0.005
Highlight Clipping	0.007
Tonal Balance	0.401
Fine Contrast	0.022
Medium Contrast	0.055
Coarse Contrast	0.077
Multiscale Contrast Ratio	0.286
Edge Contrast	0.319
Contrast Clustering	0.136

### SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.653
Color Clustering	0.635
Color Transition Smoothness	0.166
Transition Uniformity	0.103
Sharp Transition Ratio	0.1
Transition Directionality	0.027

Metric	Value
Mean Saturation	0.468
Saturation Variance	0.038
Low Saturation Ratio	0.201
Medium Saturation Ratio	0.663
High Saturation Ratio	0.136
Saturation Clustering	0.996
Hue Concentration	0.967
Complementary Balance	0.0
Analogous Dominance	0.977
Temperature Bias	0.957

## 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 (2022). Parisian Thoroughfare — Catalog raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0427.html>

[2] Quercy, A. (2025). Untitled - Gallery. [https://artquamanima.com/en/artworks/2022/01/parisian-thoroughfare\\_4ua.html](https://artquamanima.com/en/artworks/2022/01/parisian-thoroughfare_4ua.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

**Claim type** computational analysis

**Voice** third person

**Epistemic status** empirical measurement

**Methodology** computational analysis

**Certainty** high

### CHECKSUM (SHA-256)

ed2be99eeb-d3401ea57d5b5a54c8a8574b693d23838c85e6f2886ba3b9106f28

**Artist** Arnaud Quercy

**Date** 2022

**Collection** Untamed Creations

**Certificate** 20231231-0014

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**Version** 1

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