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The Differences of Emotional Restoration Effects of Colored-Leaves Plant Communities in Urban Parks

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Supplementary Table 1: HSB values of the major colors of each experimental image

Group	Serial number	HSB value of major colors			
Single green	G-1	H6S2B2	H6S2B3	H5S2B3	—
	G-2	H7S2B2	H6S2B3	—	—
	G-3	H8S2B3	H6S2B3	—	—
	G-4	H6S2B2	H6S2B3	—	—
	G-5	H7S2B2	H6S2B3	—	—
	G-6	H8S2B2	H6S2B3	—	—

Red–green Interval 1	R-1-1	H5S2B3	H6S2B3	H1S3B3	—
	R-1-2	H6S2B3	H5S2B3	H1S2B3	—
	R-1-3	H6S3B3	H6S2B3	H5S2B4	H1S2B3
	R-1-4	H7S2B2	H7S2B3	H2S3B3	H16S2B3
	R-1-5	H6S3B3	H5S3B3	H2S3B3	—
	R-1-6	H5S2B3	H1S3B3	—	—
Red–green Interval 2	R-2-1	H1S2B3	H6S2B3	H5S2B3	H16S2B3
	R-2-2	H1S3B3	H5S2B3	H6S2B3	H16S3B4
	R-2-3	H5S2B4	H1S2B3	H6S2B3	H16S3B4
	R-2-4	H6S2B3	H1S3B3	H16S2B3	—
	R-2-5	H6S3B3	H1S3B3	H2S3B3	—
	R-2-6	H5S2B3	H1S2B3	H6S2B3	H16S2B3
Red–green Interval 3	R-3-1	H1S3B3	H2S2B4	H5S2B3	—
	R-3-2	H1S3B3	H2S3B4	H6S2B3	—
	R-3-3	H1S3B3	H6S2B3	H2S2B3	H16S2B4
	R-3-4	H2S3B2	H1S3B3	H5S2B3	H16S2B3
	R-3-5	H2S3B2	H1S3B3	H5S2B3	—
	R-3-6	H1S3B3	H2S3B2	H5S2B3	—
Yellow–green Interval 1	Y-1-1	H5S2B2	H4S3B3	H3S3B3	H5S2B3
	Y-1-2	H5S2B2	H3S3B3	H5S2B3	—
	Y-1-3	H4S2B2	H3S3B3	H5S2B3	—
	Y-1-4	H5S2B2	H4S3B3	H5S2B3	—
	Y-1-5	H5S2B2	H3S3B3	H3S4B3	H5S2B3
	Y-1-6	H5S2B2	H4S3B3	H5S2B3	—
Yellow–green Interval 2	Y-2-1	H5S2B2	H3S3B4	H3S4B3	H5S2B3
	Y-2-2	H5S3B2	H3S3B3	—	—
	Y-2-3	H3S3B3	H5S2B2	—	—
	Y-2-4	H5S2B2	H3S3B3	H5S2B3	—
	Y-2-5	H5S3B2	H3S3B3	H3S3B3	H5S2B3
	Y-2-6	H5S2B2	H3S3B3	H3S3B3	—
Yellow–green Interval 3	Y-3-1	H3S3B2	H3S3B4	H3S3B3	H6S2B3
	Y-3-2	H3S3B3	H3S3B2	H5S2B3	—
	Y-3-3	H3S3B3	H3S3B4	H5S2B3	—
	Y-3-4	H3S3B3	H5S2B3	—	—
	Y-3-5	H3S3B3	H6S2B3	—	—
	Y-3-6	H3S3B2	H3S3B3	H3S3B4	H5S3B3

Supplementary Table 2: Normality test and analysis of $\triangle P_{PA}$ and $\triangle P_{NA}$ values

Item	Mean	*SD*	*Skewness*	*Kurtosis*
$\triangle P_{PAR1}$	−0.527	0.424	−1.972	5.521
$\triangle P_{PAR2}$	−0.504	0.522	−1.480	1.275
$\triangle P_{PAR3}$	−0.612	0.490	−1.474	2.424
$\triangle P_{PAR4}$	−0.541	0.477	−2.453	8.904
$\triangle P_{NAR1}$	0.525	0.139	−0.417	−0.976
$\triangle P_{NAR2}$	0.400	0.233	−0.761	0.445
$\triangle P_{NAR3}$	0.441	0.208	−0.246	−0.844
$\triangle P_{NAR4}$	0.394	0.283	−1.802	4.400
$\triangle P_{PAY1}$	−0.744	0.746	−1.311	1.197
$\triangle P_{PAY2}$	−0.726	0.656	−1.262	1.022
$\triangle P_{PAY3}$	−0.990	0.860	−1.817	3.833
$\triangle P_{PAY4}$	−0.914	0.871	−1.234	0.200
$\triangle P_{NAY1}$	0.460	0.175	−0.630	0.000
$\triangle P_{NAY2}$	0.528	0.171	−1.229	2.447
$\triangle P_{NAY3}$	0.535	0.152	−0.826	1.023
$\triangle P_{NAY4}$	0.542	0.163	−0.642	0.785

In the Supplementary Table 2, $\triangle P_{PAR1}$, $\triangle P_{PAR2}$, $\triangle P_{PAR3}$, and $\triangle P_{PAR4}$ respectively represent the $\triangle P_{PA}$ values of the single green, Interval 1, Interval 2, and Interval 3 in the red–green group; $\triangle P_{NAR1}$, $\triangle P_{NAR2}$, $\triangle P_{NAR3}$, and $\triangle P_{NAR4}$ respectively represent the $\triangle P_{NA}$ values of single green, Interval 1, Interval 2, and Interval 3 in the red–green group; $\triangle P_{PAY1}$, $\triangle P_{PAY2}$, $\triangle P_{PAY3}$, and $\triangle P_{PAY4}$ respectively represent the $\triangle P_{PA}$ values of single green, Interval 1, Interval 2, and Interval 3 in the yellow–green group; $\triangle P_{NAY1}$, $\triangle P_{NAY2}$, $\triangle P_{NAY3}$, and $\triangle P_{NAY4}$ respectively represent the $\triangle P_{NA}$ values of single green, Interval 1, Interval 2, and Interval 3 in the yellow–green group. The absolute values of *skewness* and *kurtosis* of the values of $\triangle P_{PA}$ and $\triangle P_{NA}$ of PANAS are all less than 3 and 10 respectively, indicating that the values are basically acceptable for normal distribution.

Supplementary Table 3: Homogeneity test of variance between $\triangle P_{PA}$ and $\triangle P_{NA}$ values

Item	Description	*Levene Statistic*	*df1*	*df2*	*p*
R$\triangle P_{PA}$	Based on the mean	0.600	3	92.000	0.616
	Based on the median	0.230	3	92.000	0.875
	Based on the median with adjusted degrees of freedom	0.230	3	87.971	0.875
	Based on the trimmed mean	0.469	3	92.000	0.705
R$\triangle P_{NA}$	Based on the mean	2.056	3	92.000	0.111
	Based on the median	1.385	3	92.000	0.252
	Based on the median with adjusted degrees of freedom	1.385	3	61.769	0.256
	Based on the trimmed mean	1.703	3	92.000	0.172

Y△P_{PA}	Based on the mean	0.825	3	92.000	0.483
	Based on the median	0.237	3	92.000	0.871
	Based on the median with adjusted degrees of freedom	0.237	3	84.786	0.871
	Based on the trimmed mean	0.649	3	92.000	0.585
Y△P_{NA}	Based on the mean	0.245	3	92.000	0.865
	Based on the median	0.188	3	92.000	0.904
	Based on the median with adjusted degrees of freedom	0.188	3	91.094	0.904
	Based on the trimmed mean	0.234	3	92.000	0.873

In the Supplementary Table 3, R△P_{PA}, R△P_{NA}, Y△P_{PA}, and Y△P_{NA} represent the △P_{PA} value in the red–green group, the △P_{NA} value in the red–green group, the △P_{PA} value in the yellow–green group, and the △P_{NA} value in the yellow–green group, respectively. The significance is greater than 0.05, so the values of △P_{PA} and △P_{NA} of PANAS pass the homogeneity test of variance.

Supplementary Table 4: Normality test and analysis of α-wave and β/α values

Item	Mean	*SD*	*Skewness*	*Kurtosis*
αR1	4.945	2.098	0.829	0.286
β/αR1	1.006	0.460	0.647	−0.463
αR2	4.240	1.322	0.230	−1.322
β/αR2	1.089	0.417	1.004	1.267
αR3	4.781	1.747	0.579	−0.187
β/αR3	0.968	0.379	0.580	−0.625
αR4	4.661	1.633	1.472	3.566
β/αR4	0.971	0.381	0.676	−0.075
α Y1	5.046	2.578	2.069	4.362
β/αY1	0.945	0.346	−0.057	0.066
α Y2	5.008	2.250	1.417	1.297
β/α Y3	0.918	0.331	−0.173	−1.035
α Y3	6.377	3.317	1.439	1.170
β/α Y3	0.779	0.340	0.230	−0.863
α Y4	6.351	3.193	1.797	3.067
β/α Y4	0.755	0.288	−0.027	−0.686

In the Supplementary Table 4, αR1, αR2, αR3, and αR4 respectively represent the α-wave values of single green, Interval 1, Interval 2, and Interval 3 in the red–green group; β/αR1, β/αR2, β/αR3, and β/αR4 respectively represent the β/α values of single green, Interval 1, Interval 2, and Interval 3 in the red–green group; αY1, αY2, αY3, and αY4 respectively represent the α-wave values of single green, Interval 1, Interval 2, and Interval 3 in the yellow–green group; β/αY1, β/αY2, β/αY3, and β/αY4 respectively represent the β/α values of single green, Interval 1, Interval 2, and Interval 3 in the yellow–

green group. The absolute values of *skewness* and *kurtosis* of α-wave and β/α values are all less than 3 and 10, indicating that the values are basically acceptable for normal distribution.

Supplementary Table 5: Homogeneity test of variance between α-wave and β/α values

Item	Description	*Levene Statistic*	*df1*	*df2*	*p*
Rα	Based on the mean	1.233	3	92.000	0.302
	Based on the median	1.178	3	92.000	0.322
	Based on the median with adjusted degrees of freedom	1.178	3	79.804	0.323
	Based on the trimmed mean	1.259	3	92.000	0.293
Rβ/α	Based on the mean	0.558	3	92.000	0.644
	Based on the median	0.473	3	92.000	0.702
	Based on the median with adjusted degrees of freedom	0.473	3	91.074	0.702
	Based on the trimmed mean	0.533	3	92.000	0.661
Yα	Based on the mean	1.063	3	92.000	0.369
	Based on the median	0.684	3	92.000	0.564
	Based on the median with adjusted degrees of freedom	0.684	3	85.205	0.564
	Based on the trimmed mean	0.935	3	92.000	0.427
Yβ/α	Based on the mean	0.270	3	92.000	0.847
	Based on the median	0.248	3	92.000	0.862
	Based on the median with adjusted degrees of freedom	0.248	3	85.880	0.862
	Based on the trimmed mean	0.268	3	92.000	0.848

In the Supplementary Table 5, Rα, Rβ/α, Yα, and Yβ/α represent the α-wave value in the red–green group, the β/α value in the red–green group, the α-wave value in the yellow–green group, and the β/α value in the yellow–green group, respectively. The significance is greater than 0.05, so the α-wave and β/α values pass the homogeneity test of variance.