## IMPRESSION RATINGS OF COLORS PERCEIVED BY COLORBLIND PEOPLE

- Preliminary study on influence of color on impressions formed by colorblind people

Factor Coefficient
(3) Normal

Fac1: Tranquility
Fac2: Brightness
Fac3: Beauty

| Factor Coefficient |
| :--- |
| (1) Protanopia |
| Fac1: Beauty |
| Fac2: Warmness |
| Fac3: Tranquility |
|  |

Factor Coefficient
(2) Deuteranopia

Fac1: Beauty
Fac2: Warmness
Fac3: Tranquility

| Scales | Fac. | Fac.2 | Fac.3 | Communality |
| :---: | :---: | :---: | :---: | :---: |
| Beautiful - Unbeautiful | 0.91 | 0.09 | -0.04 | 0.84 |
| Conspicuous - Inconspicuous | 0.91 | 0.12 | -0.21 | 0.88 |
| Like - Dislike | 0.89 | 0.06 | -0.06 | 0.80 |
| Vibrant - Somber | 0.86 | 0.18 | -0.10 | 0.78 |
| Bright - Dark | 0.74 | 0.40 | -0.14 | 0.73 |
| Loud - Modest | 0.74 | 0.27 | -0.42 | 0.79 |
| Hard - Soft | -0.15 | -0.89 | 0.10 | 0.83 |
| Warm - Cool | 0.15 | 0.86 | -0.02 | 0.77 |
| Tranquil - Restless | -0.17 | -0.07 | 0.97 | 0.98 |
| Factor coefficient(\%) | 48.28 | 20.46 | 13.47 | 82.21 |


| Scales | Fac.1 | Fac.2 | Fac.3 | Communality |
| :---: | :---: | :---: | :---: | :---: |
| Beautiful - Unbeautiful | 0.88 | 0.25 | -0.19 | 0.87 |
| Like - Dislike | 0.87 | 0.13 | 0.15 | 0.79 |
| Vibrant - Somber | 0.76 | 0.19 | -0.51 | 0.87 |
| Bright - Dark | 0.69 | 0.37 | -0.39 | 0.77 |
| Conspicuous - Inconspicuous | 0.67 | 0.27 | -0.55 | 0.82 |
| Loud - Modest | 0.61 | 0.35 | -0.58 | 0.83 |
| Hard - Soft | -0.20 | -0.87 | 0.19 | 0.84 |
| Warm - Cool | 0.25 | 0.85 | -0.22 | 0.83 |
| Tranquil - Restless | -0.04 | -0.22 | 0.88 | 0.83 |
| Factor coefficient(\%) | 38.96 | 21.96 | 21.84 | 82.76 |


| Scales | Fac.1 | Fac.2 | Fac.3 | Communality |
| :---: | :---: | :---: | :---: | :---: |
| Loud - Modest | 0.92 | -0.06 | 0.26 | 0.91 |
| Conspicuous - Inconspicuous | 0.90 | -0.10 | 0.27 | 0.88 |
| Vibrant - Somber | 0.87 | 0.01 | 0.20 | 0.80 |
| Tranquil - Restless | -0.83 | 0.28 | 0.22 | 0.82 |
| Hard - Soft | 0.14 | 0.89 | 0.04 | 0.82 |
| Bright - Dark | 0.48 | -0.77 | 0.02 | 0.82 |
| Warm - Cool | 0.21 | -0.56 | 0.45 | 0.56 |
| Beautiful - Unbeautiful | 0.52 | -0.17 | 0.70 | 0.78 |
| Like - Dislike | 0.01 | 0.04 | 0.93 | 0.87 |
| Factor coefficient(\%) | 40.65 | 20.32 | 19.84 | 80.80 |

