

Garth Lewis

2000 color combinations

for graphic, textile, and craft designers

Garth Lewis



Acknowledgements

I would thank my collaborators on related color projects, Dr Ferdy Carabott and Hao Dam. Central Saint Martins, University of the Arts, London for funding my research in Color, Painting, and Computing and Cressida, Olivia, and Orlando Lewis for their love and tolerance.

I dedicate this book to the memory of my color mentor at Queens College, City University of New York, Professor Herb Aach.

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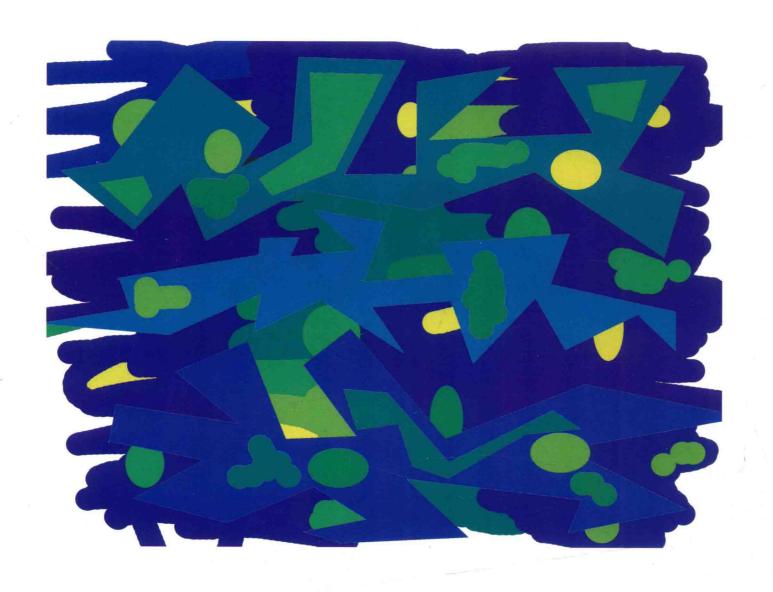
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INTRODUCTION

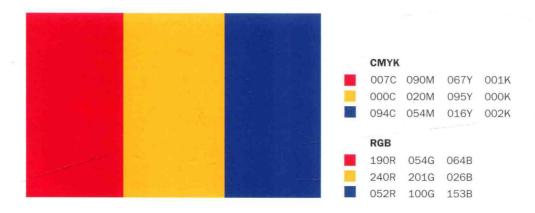
This book is intended as an inspirational reference for artists and designers who have an interest in both digital and analog color. It takes into account the diversity of practitioners who use the computer as part of their creative process but are not necessarily dedicated "multimedia designers."

It is a reference book of over 2000 color combinations, reflecting a wealth of knowledge, experiment, and experience from the history and theory of colors and diverse creative and natural sources, together with the independent contributions of professional artists and designers. The color combinations and color relationships explored are flat and opaque whether on the computer screen, the printed page, or as painted swatches.

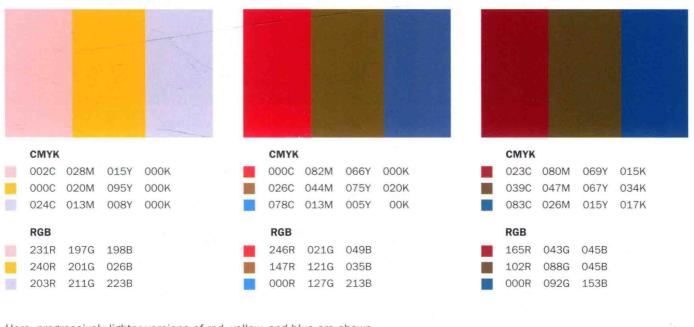
The examples are presented in neutral, elemental formats that demonstrate color relationships independent of a specific medium or a particular design outcome.

The color combinations are selected hues (red, green, blue, etc.) that vary in brightness, saturation, and physical proportion within the color format.

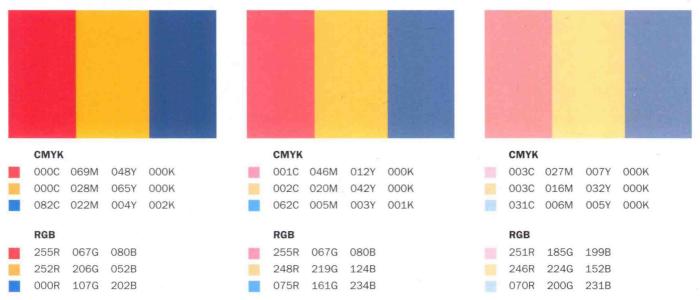
To begin, the primary colors red, yellow, and blue are used to illustrate the basic model or visual narrative for generating the 2000 color combinations and to show the possible variations within a given color set. A triad is a set of three colors spaced 120 degrees apart on the color wheel. Below is a primary color triad.



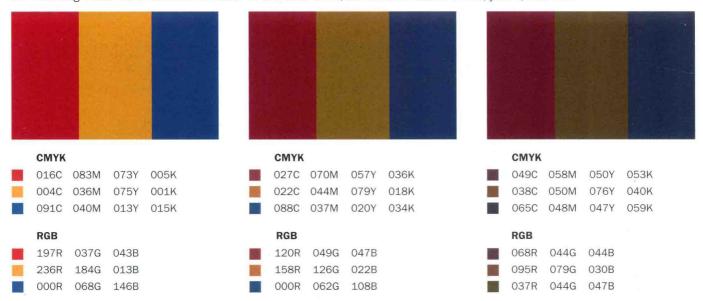
In each of the following triads the values of the primaries are adjusted to match the pure yellow, red, and blue.



Here, progressively lighter versions of red, yellow, and blue are shown.



The following triads show darkened versions of the same hues, but different values of red, yellow, and blue.



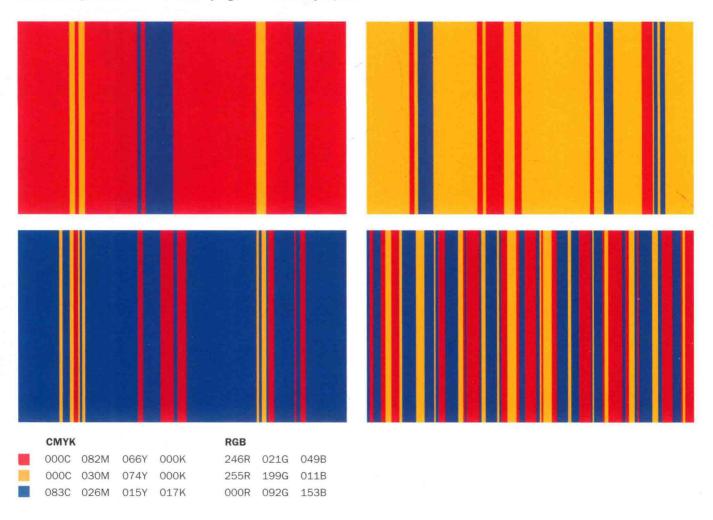
Here, red, yellow, and blue become progressively less saturated, changing chroma (that is the quality of hue, plus saturation), but maintaining the same values.



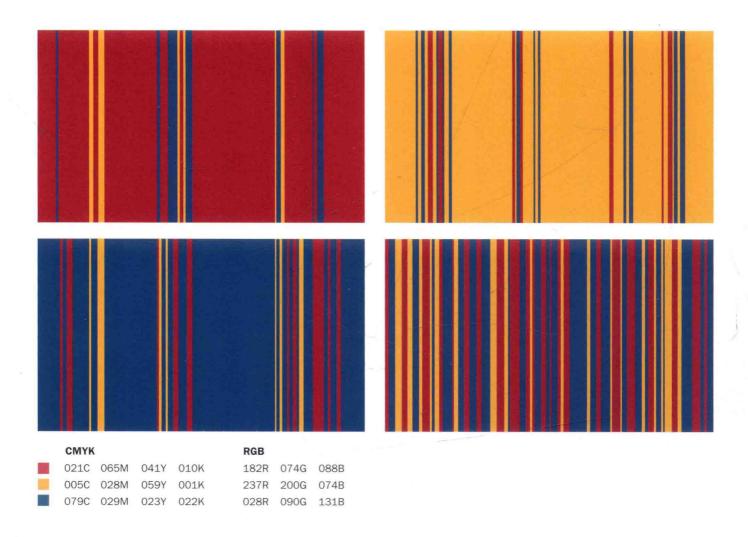
Color Proportion

The following examples demonstrate the effect of proportion and color dominance within a set of variations for red, yellow, and blue. The second and third sets of stripes (pages 10-11) differ in chromatic intensity, and the fourth set (page 12) combines different colors from the preceding examples. All the colors used match the previous samples, where CMYK and RGB readings are provided. The examples represent a fraction of the possibilities for one color triad.

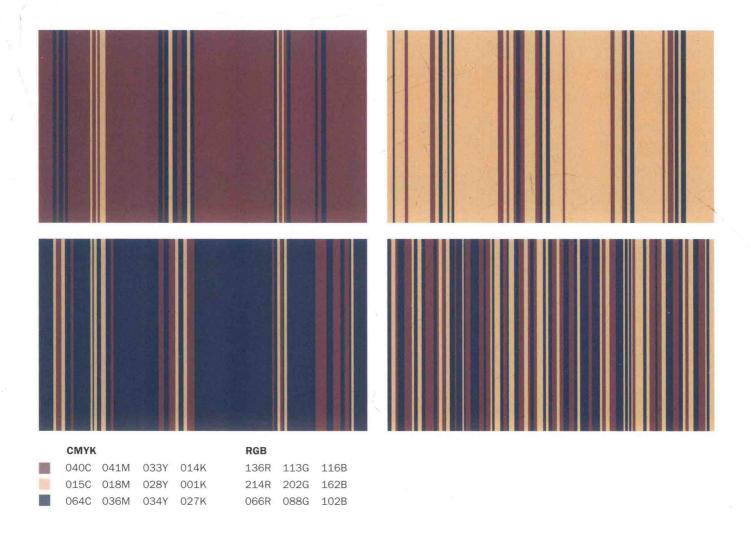
Below, red, yellow, and blue are used in three studies where one color is dominant, and in a fourth example where the colors are judged to be visually equal.



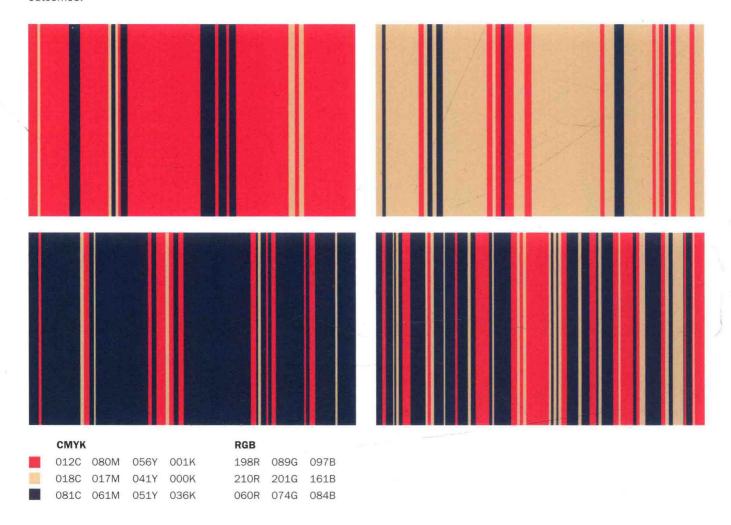
Here, red, yellow, and blue are less saturated, so a change of proportion will reflect the new balance of colors. Color relationships can be easily compared within the ample visual proportions of a stripe format.



Below, red, yellow, and blue are reduced in chroma, towards near neutrality (grayness). The colors are closer, but are now more dramatically separated by value differences. The narrowing of the color stripes diminishes the saturation.



Here, different versions of red, yellow, and blue are chosen from the previous studies: a low chroma red, pure yellow, and near-neutral blue. This initiates a process of comparing colors in a simple format that can involve many different materials and apply to diverse design outcomes.



These palettes include three chroma steps and three lighter values of red, yellow, and blue used together in the same formats. The stepped gradations appear as "film" color, creating a transparent light effect from closely related colors.





