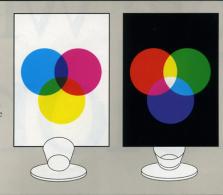


Understanding a few basic theories can aid in the application of color desktop-publishing and presentation tools. **By Stuart Silverstone** 

## **Printed vs. Projected Color**

Printing somewhat transparent inks onto opaque paper creates reflective artwork based on subtractive color (subtracting wavelengths from white light). The primaries cyan (C), magenta (M) and **yellow** (Y) can be combined to produce any other color and, with black (K), for producing improved contrast and printing options on white paper.

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Projecting light through colors on slide film creates transparent artwork based on additive color (adding color lights from darkness). The primaries red (R), blue (B) and green (G) can be combined to produce any other color on an otherwise black background—where the secondary combinations are the subtractive primaries.

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## The three additive printing primaries can be combined, in equal parts, to produce three secondaries -or, in unequal parts, to produce in-between tertiaries quartenaries or other mid-color tints.

Color Separations

This continuous-tone color photo can be broken down into its four color components...

cyan magenta yellow black

then screened into black-and-white separations...

to produce a faithful halftone reproduction

## **Process Color Tints**

Using either desktop or conventional means, a variety of colors can be printed by overlaying tints of the four process colors. Some examples follow...



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Illustrations by Chris Krueger

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