Case Study

Optimizing Measurement Data

COLOR Logic | CROSS COLOR Inc.

Color Focused. Technology Driven.

High-End Color Management Solutions

Overview

Why optimize your measurement data?

In the course of setting up color management it is unavoidable during the process that one or more of your color targets will contain redundant, non-matching, or just inaccurate data on the same test chart. Most color charts contain over 1000 test patches inaccurate or erroneous information will be read.

Challenges

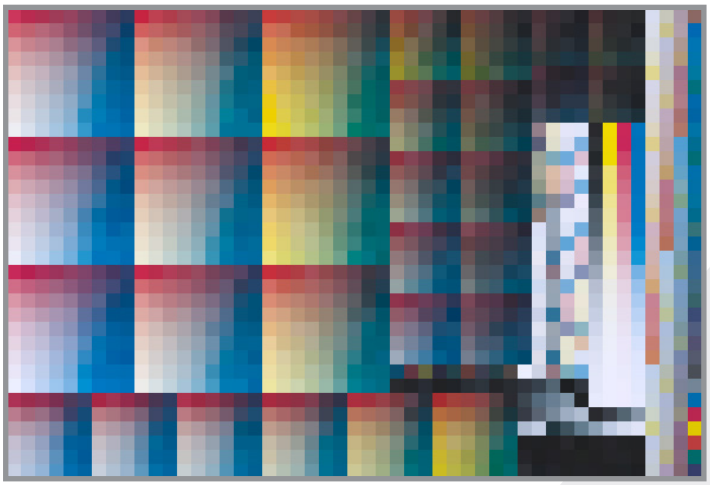
In many situations measurement data is not perfect for ICC profiling and produces low quality profiles. Erroneous measurements can result in problems in printing. In other instances you might want to average measurement data before you create profiles.

Solution

Introduce **ColorLogic's ColorAnt** into your existing workflow to correct and produce quality measurement data.

Results

It is in some cases to correct measurement data for the effect(s) of optical brighteners, TVI corrections and gradation changes in order to meet standards like ISO or Fogra. The quality of ICC or DeviceLink profiles is only as good as the input data. Analyzing and optimizing the data results in a better profile quality and thus in a higher reliability of the production process. **ColorLogic's ColorAnt** can complement any profiling software in the market.



Generic test chart with low quality measurement data

Typical measurement chart

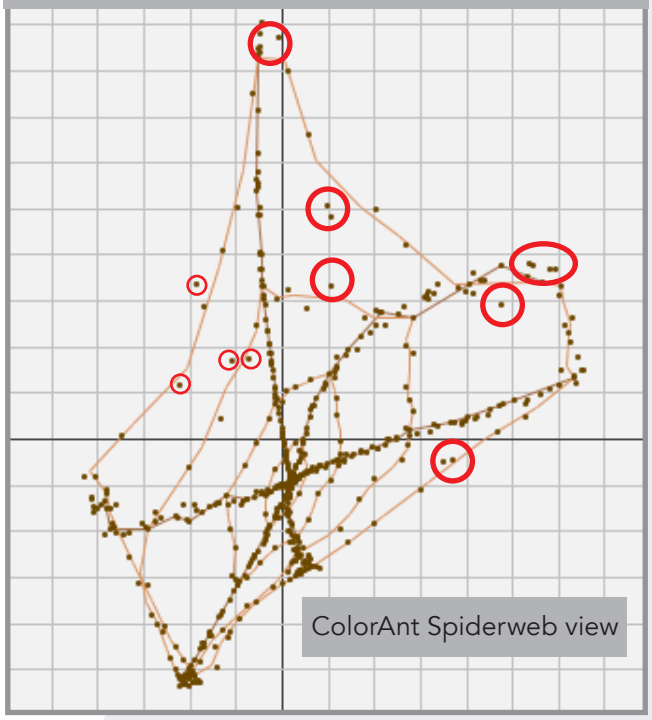
Digital Printer

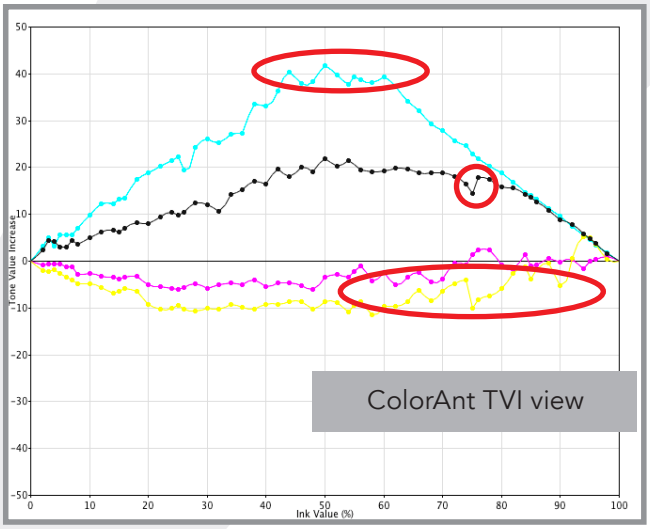
Unpredictable Media

Erroneous Measurement Data

LOW QUALITY PROFILE

Erroneous Measurement Data from a Digital Printer*





*Analysis of measurement data **BEFORE correction** using ColorLogic ColorAnt

Corrected Measurement Data

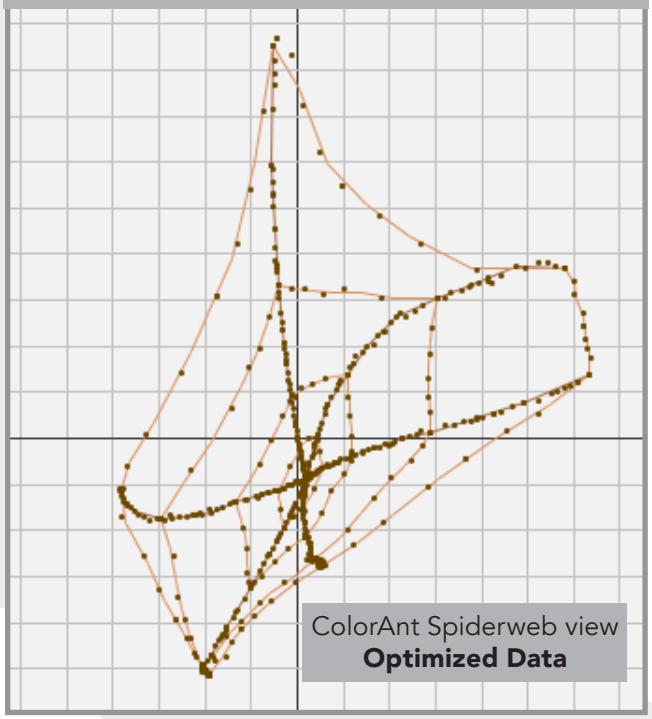
Measure Bad Data

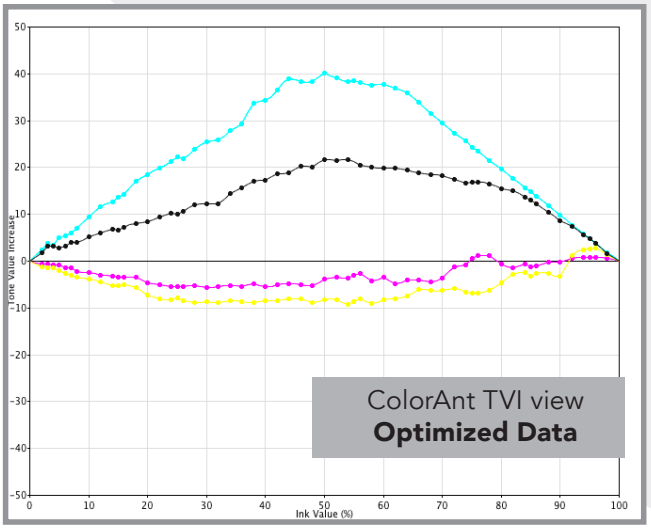
Automatically Optimize Data

Detailed Analysis Tools

Quality Comparison Report

Optimized Measurement Data
from ColorAnt using Automatic*





*Analysis of measurement data **AFTER correction** using ColorLogic ColorAnt Automatic function

Solution and Process

Optimizing measurement data simplified.

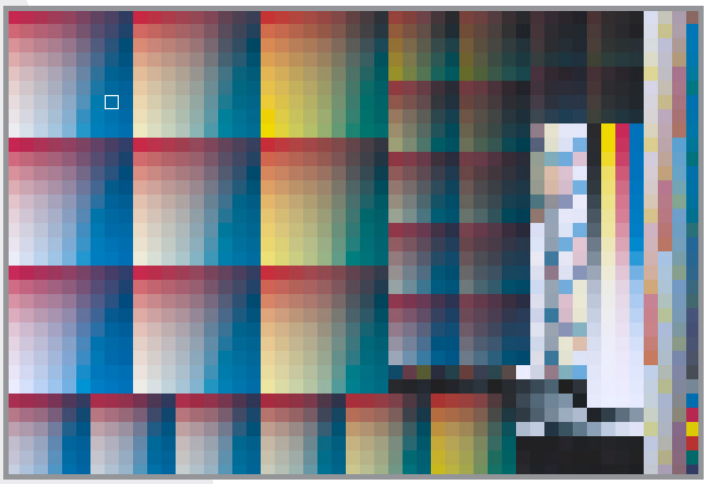
As shown in the sample test data taken from a digital printer with unacceptable tendancies, (located in the folder CMYK uncorrected measurement data) ColorAnt incorporates measurement data optimization by using a variety of factors. ColorAnt's "Automatic" function takes into consideration a variety of factors, including redundant patches, measurement errors, smoothing and simplifying the process of optimizing measurement data.

In the supplied example found in (CMYK corrected measurement data) with the spider web graph on the far left, the erroneous data is shown within the highlighted areas including duplicate or incorrect data that will create major issues when creating DeviceLink or ICC profiles.

The TVI chart on the far left demonstrates how measurement data from an unpredictable device can produce un-smooth curves and thus poor quality DeviceLink or ICC profiles.

The supplied corrected sample measurement data was produced with the "Automatic" function, it is possible to further refine and analyze the data by using the more advanced features of ColorAnt. Included with ColorAnt is a full detailed reporting tool and a variety of visualization tools.

Please see our full documentation on our website and explore our full range of high end color management software solutions at www.colorlogic.de or www.crossxcolor.com.



Generic test chart with optimized measurement data

About ColorLogic & CrossXColor

We are an independent, technology driven company that creates strong and productive relationships between our partners, clients and our team. We believe that it doesn't matter where or how color needs to be expressed, you need to start with the best technology available.

For More **Information**

To learn more about how ColorLogic and CrossXColor can help turn your color management challenges into a streamlined color workflow, visit us on the web, www.colorlogic.de or www.crossxcolor.com

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