Color measurement on a backlit screen or media

Function soon available in version 1.30.0 of Coraye

The theoretical color and the color displayed on a screen (especially when it is not calibrated) often hold unpleasant surprises.

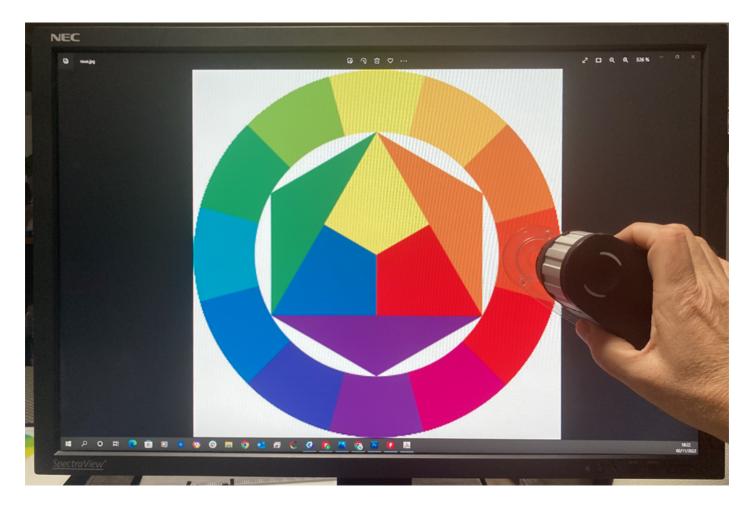
How can we then calmly communicate the color displayed on our screen?

The solution proposed by Coraye consists in directly measuring the colors on the screen with a spectrophotometer in transmission mode.

The measurements can then be exported, converted, analyzed, like a measurement taken on paper or another type of material.

How to capture the colors on your screen?

To illustrate this tutorial, we will display a color wheel on a secondary screen.



Prerequisites:

- Color Capture module
- A spectrophotometer (see list below)

Start by connecting your spectrophotometer.

Spectrophotometers supported by Coraye's "Color Capture" module:- XRite I1 Pro 3 & I1 Pro 3 PLUS

- XRite I1 Pro 2
- XRite I1 Pro & I1 Pro UV
- EFI ES1000
- EFI ES2000
- EFI ES3000

In the Coraye software, click on the "Add Color" icon located in the menu at the top left of the software.



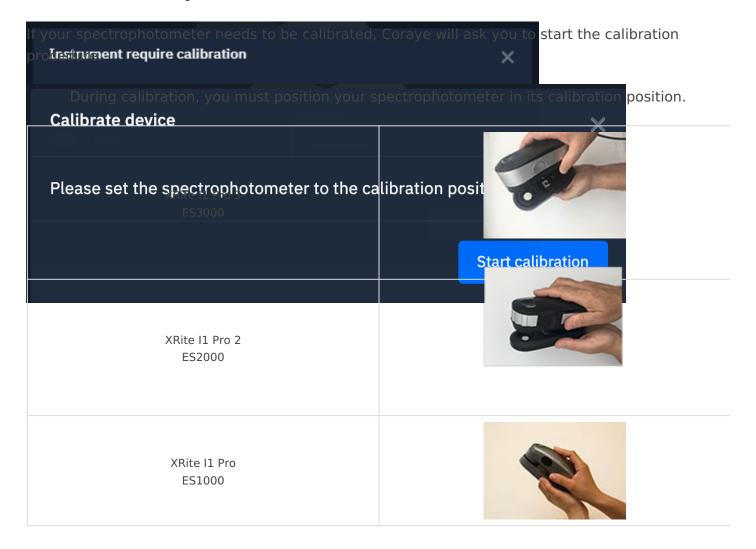
Use **Reflective** mode to measure on paper or material

Use **Emissive** mode to capture the spectral curve of a color on your screen or on backlit media

Use **Transmissive** mode to measure a color on your screen or on backlit media.

Since in "**Transmissive**" mode the spectrophotometer does not emit illuminant to perform the measurement, the measurement conditions disappear.

Click on the "I'm ready" button



Reference white measurement

In "Transmissive" mode it is necessary to measure the reference white (RGB values: R=G=B=255 or CMYK: C=M=Y=K=0)

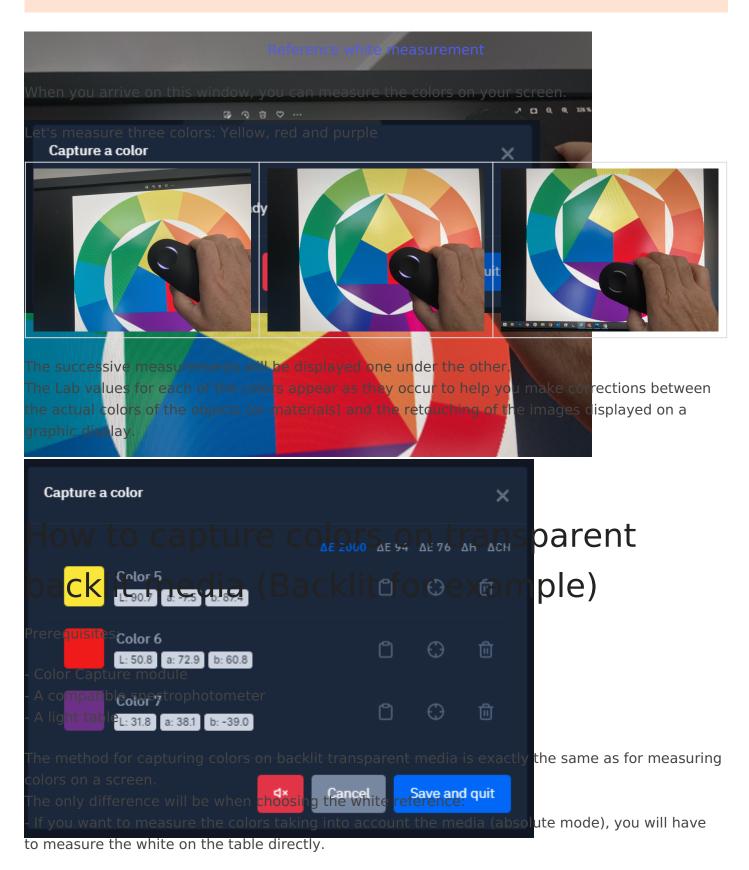
This step is important because the color measured is dependent on the intensity and the type of illuminant used for the backlighting of your screen (or light table).

In our example, we have white at the four corners of our image.

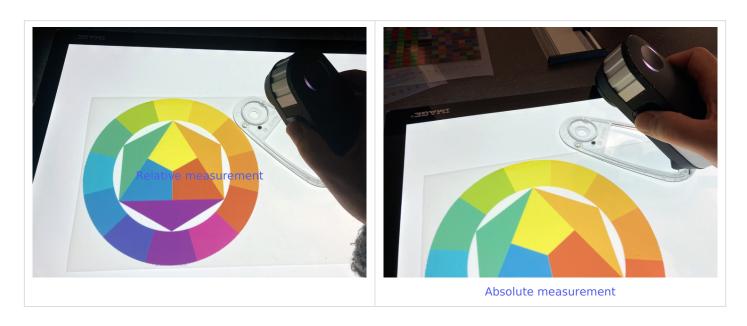
We will therefore choose an area large enough to measure our white frame of reference.

White should be measured on the screen your colors will be displayed on and under the same viewing conditions

Ditto if the measurement is carried out on a light table.



- If you want to measure colors ignoring the media (relative mode), you will need to measure the white on the media.



Let's measure three colors: Yellow, red and purple



The measured colors will be displayed as the reading progresses:

