

Colour Management

ICC profiles

Understood

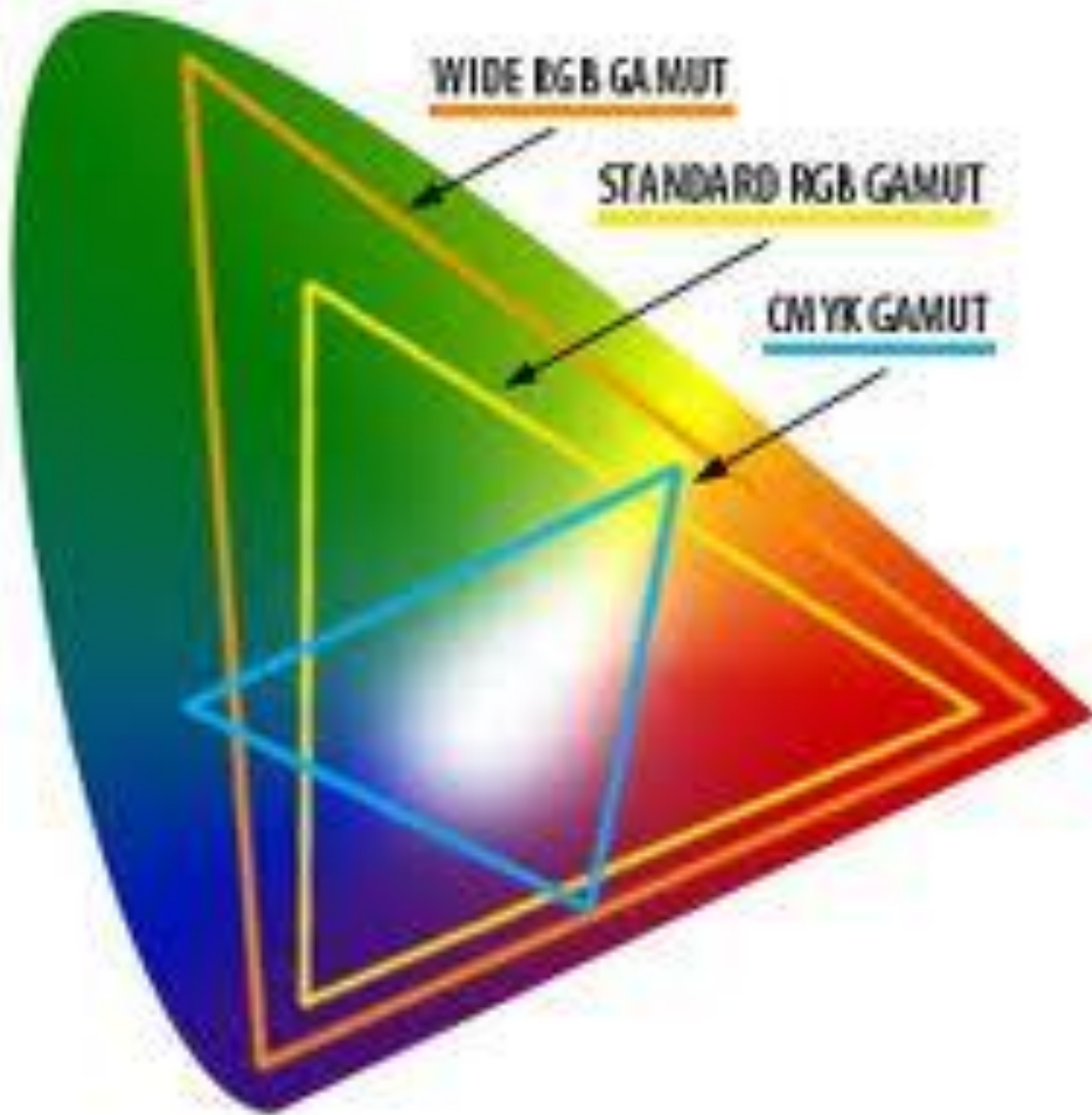
Fotospeed

What is Colour?

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Three types of colour space

- **RGB**
- **sRGB**
- **CMYK**



Fotospeed

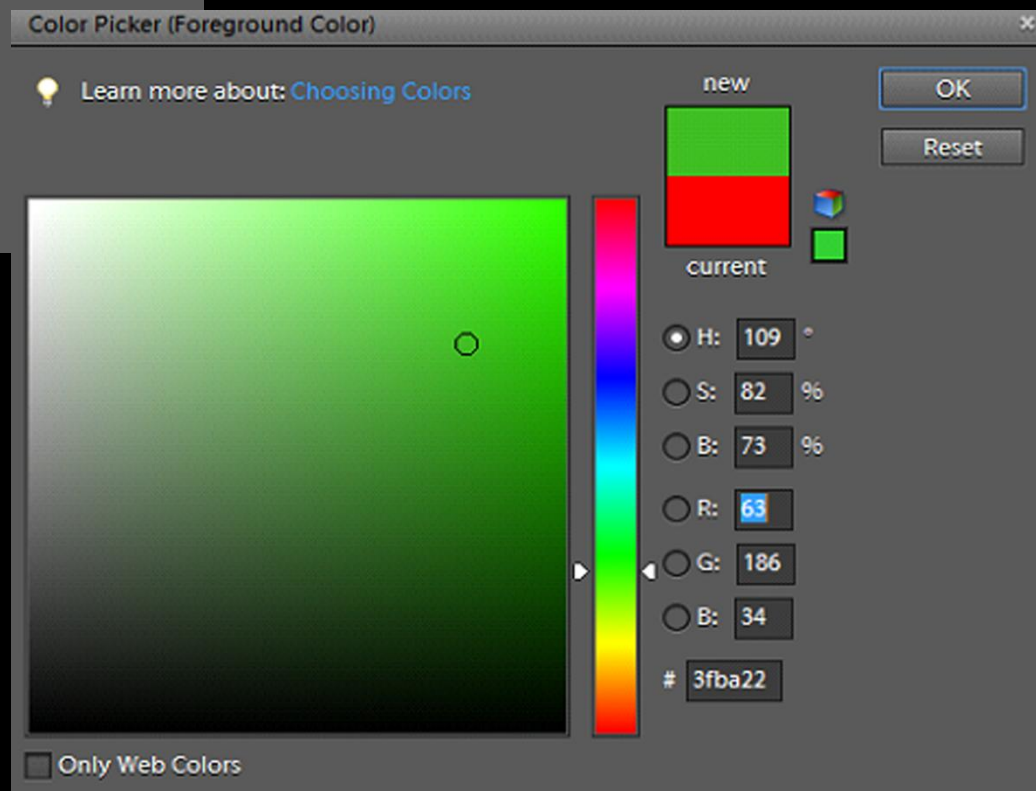
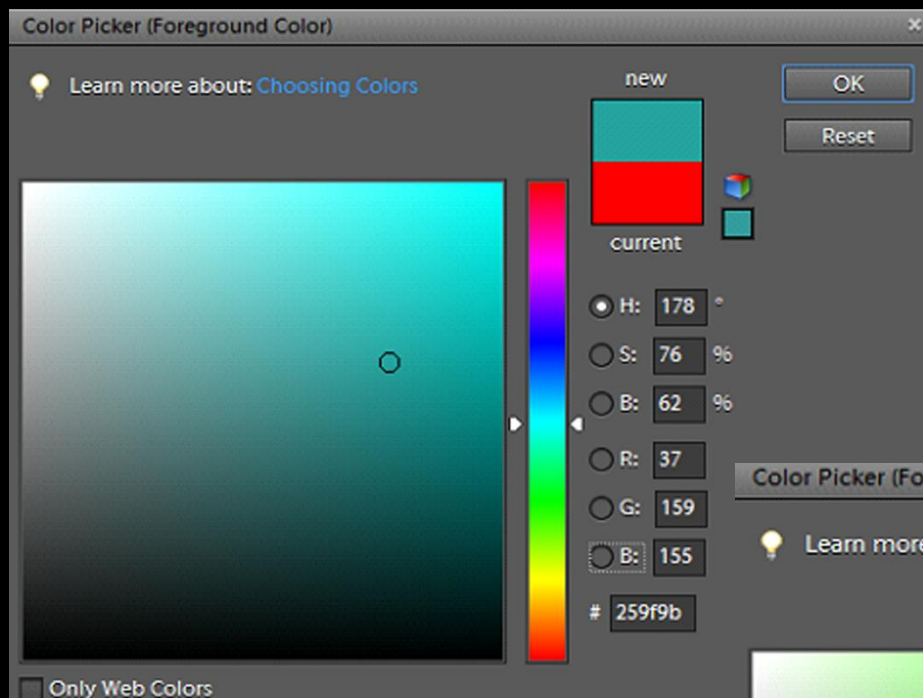
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The same set of RGB or CMYK numbers will produce **different results on different devices.**



Fotospeed

What is Colour Management?

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CM attempts to produce predictable colour within the limitations of the device in use.

Why Do We Need Colour Management?

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- Colours differ between applications
- Colours differ between printers

Why Do We Need Colour Management?

In a nutshell:

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Inconsistency

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In a nutshell:

**Inconsistency
&
Unpredictability**

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Colour Management will ensure:

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- Use of less paper (save more money).

Device Dependent Colour

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- Each RGB monitor will display the same RGB values differently.
- Each inkjet printer will produce different colours from the same RGB values.

Device Independent Colour

What is needed is a method of reproducing colour that is **not dependent upon the device in use.**

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What is needed is a method of reproducing colour that is not dependent upon the device in use.

A controlled environment that allows colour reproduction accurately on any monitor and printer.

What is a Profile?

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- Simply put, a profile is a label or tag that describes the colour of a particular image or device.

Colour Management System

The Colour Management System ensures that the colour description in an **input colour space is transferred faithfully to an output device.**

Tagged or Untagged

An image (or device) can be in one of two states.

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- Profiled – ‘Tagged’

Tagged or Untagged

An image (or device) can be in one of two states.

- Profiled – ‘Tagged’

Or

- Unprofiled – ‘Untagged’

Profile Types

A profile can be one of two types:

Tagged or Untagged

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Generic or **Bespoke**

How Does it Work?

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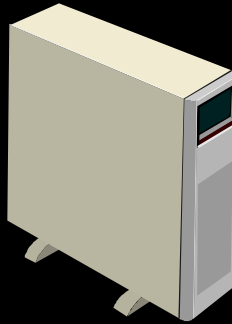
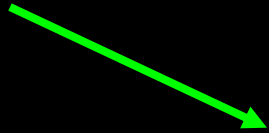


Image File
(Tagged)

How Does it Work?



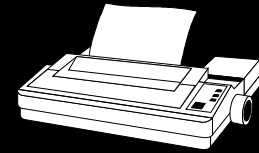
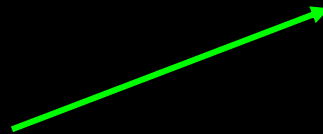
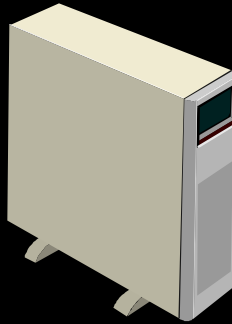
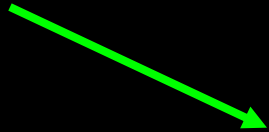
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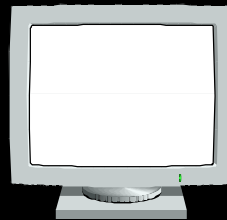
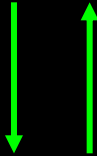
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Image File
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Profiled for the
Paper in use



Connecting the Elements

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Colour Management workflow requires
4 elements

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- Input profile (embedded in your image)

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- Colour Management Module (Photoshop)

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Colour Management workflow requires 4 elements

- Input profile (embedded in your image)
- Colour Management Module (Photoshop)
- Output profile (paper/ink/printer profile)
- **Rendering Intent** (To handle out of gamut colours)