

Image Bit Comparer

<https://www.csfieldguide.org.nz/en/interactives/image-bit-comparer/>

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Image Bit Comparer

Select Image

Sunflower

Upload Image


Either drag and drop or click the button below to load your own landscape image into the interactive.

選擇檔案 未選擇任何檔案


Image Preview Size

Medium


24 bits




16 bits



8 bits



4 bits



RGB 混色器

<https://www.csfieldguide.org.nz/en/chapters/data-representation/images-and-colours/>

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Both these kinds of mixing are called "subtractive mixing", because they start with a white canvas or paper, and "subtract" colour from it. The interactive below allows you to experiment with CMY in case you are not familiar with it, or if you just like mixing colours.

CMY Colour Mixer - Used by Printers

cmy (16, 228, 33)

Cyan - Currently set to 16

0 32 64 96 128 159 191 223 255

Magenta - Currently set to 228

0 32 64 96 128 159 191 223 255

Yellow - Currently set to 33

0 32 64 96 128 159 191 223 255

☒ Decimal ☐ Hexadecimal

Computer screens and related devices also rely on mixing three colours, except they need a different set of primary colours because they are *additive*, starting with a black screen and adding colour to it. For additive colour on computers, the colours red, green and blue (RGB) are used. Each *pixel* on a screen is typically made up of three tiny "lights"; one red, one green, and one blue. By increasing and decreasing the amount of light coming out of each of these three, all

Data Representation

5.1. What's the big picture?

5.2. Getting started

5.3. Numbers

5.4. Text

5.5. Images and Colours

Describing a colour with numbers

Representing a colour with bits

Representing colours with fewer bits

5.6. Program Instructions

5.7. The whole story!

5.8. Further reading

Gradients.app^{ch}

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颜色渐变调色

颜色混合器。在线混合颜色

输入您想要的颜色的十六进制代码或使用下面的调色板。生成颜色的代码将在不同的颜色系统中提供 (十六进制、RGB、HSL 和 CMYK)。

#B060BF

RGB: 176, 96, 191
HSL: 291, 43%, 56%
CMYK: 8%, 50%, 0%, 25%

颜色信息

混合模式: RGB HSL

#7859E7

#E86697

工具

生成渐变

从图像创建调色板

色调生成器

对比色发生器

颜色转换器

从图像的平均颜色

图片颜色选择器

<https://www.csfieldguide.org.nz/en/interactives/colour-matcher/>

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Colour Matcher

Firstly try matching the colour in the goal panel with the 24 bit sliders.

24 bit

Red - 8 bits for red set to 10101001

Green - 8 bits for green set to 11010010

Blue - 8 bits for blue set to 01110110

Bit representation - Click a bit to toggle its value

1 0 1 0 1 0 0 1 1 1 1 0 0 1 0 0 1 0 0 1 1 1 0 1 1 0

Need help finding the correct values?

Help me set 24 bit red

24 bit colour

Goal colour

Now try matching the same goal colour with the 8 bit sliders.

8 bit

Red - 3 bits for red set to 110

Green - 3 bits for green set to 000

Blue - 2 bits for blue set to 10

Bit representation - Click a bit to toggle its value

8 bit colour

Goal colour

參考影片：


<https://www.youtube.com/watch?v=u0a-YIV0wil>

資料數位化之原理與方法-影像數位化

第四次-資料數位化之原理與方法-影像數位化

影像數位化(編碼)原理

電腦眼中的圖像



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