

# Converting Colors

$Y_{xy}(22.8121, 0.2400, 0.1857)$

Have a look what the booklet for  
Yxy(22.8121, 0.2400, 0.1857)  
contains.

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# Color

**Yxy(22.8320, 0.2402, 0.1857)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8A73DC
RGB	138, 115, 220
RGB Percent	54%, 45%, 86%
CMY	0.4589, 0.5490, 0.1371
CMYK	0.37, 0.48, 0.00, 0.14
HSL	253°, 60%, 66%
HSV	253°, 48%, 86%
XYZ	29.5328, 22.8320, 70.5862
YIQ	133.8470, -19.9970, 37.5310

# Conversions

## Conversions Part 2

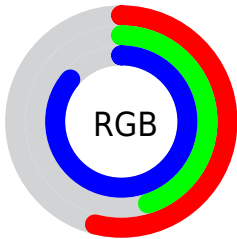
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	138, 115, 220
Decimal	9073628
CIE <sub>Lab</sub>	54.90, 33.06, -50.86
CIE <sub>LCh</sub>	55, 60.655, 303.025
Y <sub>xy</sub>	22.8320, 0.2402, 0.1857
Android (android.graphics.Color)	4287263708 (0xFF8A73DC)
YUV	133.8470, 42.4734, 3.6422
Hunter-Lab	47.7828, 26.7044, -54.1369

# Details

The Yxy color **22.8320, 0.2402, 0.1857** is a light color, and the websafe version is hex **6666CC**. A complement of this color would be **64.3197, 0.3644, 0.4531**, and the grayscale version is **23.6279, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.4595, 0.2698, 0.2305**, and **8.4158, 0.2153, 0.1483** is the 20% darker color. If you saturate the color by 10%, you get **17.0478, 0.2215, 0.1529**, and if you desaturate by 10%, it is **30.0473, 0.2583, 0.2191**.

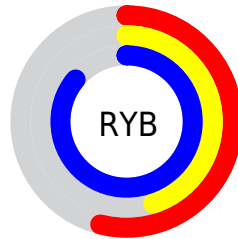
# Distribution



Red (54%)

Green (45%)

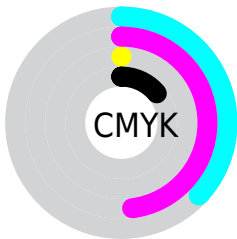
Blue (86%)



Red (54%)

Yellow (45%)

Blue (86%)

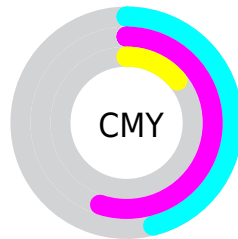


Cyan (37%)

Magenta (48%)

Yellow (0%)

Black (14%)



Cyan (46%)

Magenta (55%)

Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.8320, 0.2402, 0.1857 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 22.8320, 0.2402, 0.1857 by changing the saturation by 10% instead.



22.8320, 0.2402,  
0.1857

22.8320, 0.2402,  
0.1857

266.8609, 0.2805,  
0.2566

14.4695, 0.2293,  
0.1690

48.1173, 0.2556,  
0.2109

8.4479, 0.2149,  
0.1484

65.8089, 0.2611,  
0.2205

4.3829, 0.1955,  
0.1228

87.3791, 0.2658,  
0.2288

1.8900, 0.1684,  
0.0911

113.2121, 0.2697,  
0.2359

0.5423, 0.1304,  
0.0498

143.6924, 0.2730,  
0.2421

0.0000, 0.0555,  
0.0000

179.2044, 0.2758,

0.0000, 0.0000,

0.2475

0.0000

220.1324, 0.2783,  
0.2523

■ 22.8320, 0.2402,  
0.1857

■ 22.8320, 0.2402,  
0.1857

■ 17.0478, 0.2215,  
0.1529

■ 30.0473, 0.2583,  
0.2191

■ 12.5948, 0.2033,  
0.1229

■ 38.7794, 0.2751,  
0.2515

■ 9.3638, 0.1867,  
0.0977

■ 49.1101, 0.2903,  
0.2819

■ 7.2266, 0.1729,  
0.0791

■ 61.1148, 0.3036,  
0.3096

■ 6.0090, 0.1626,  
0.0679

■ 74.8638, 0.3152,  
0.3344

■ 5.8019, 0.1607,  
0.0659

■ 90.4235, 0.3251,  
0.3563

■ 97.9493, 0.3333,  
0.3631

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



22.8320, 0.1744, 0.1779



22.8320, 0.2402, 0.1857



22.8320, 0.3404, 0.2197

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



22.8320, 0.2402, 0.1857



22.8320, 0.5087, 0.4132



22.8320, 0.1837, 0.3750

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



22.8320, 0.2402, 0.1857



64.3197, 0.3644, 0.4531

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



22.8320, 0.2602, 0.4910



22.8320, 0.2402, 0.1857



22.8320, 0.4469, 0.4853

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



22.8320, 0.2402, 0.1857



22.8320, 0.5146, 0.3412



22.8320, 0.3565, 0.5288



22.8320, 0.1455, 0.2643



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



22.8320, 0.2402, 0.1857



22.8320, 0.4150, 0.2546



22.8320, 0.3565, 0.5288



22.8320, 0.2054, 0.4174

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



22.8328, 0.2402, 0.1857



74.3894, 0.2953, 0.2922



48.8731, 0.2441, 0.2981



15.1691, 0.2923, 0.2860



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



22.8328, 0.2402, 0.1857



24.0006, 0.2220, 0.1538



28.4129, 0.2886, 0.2031



12.7539, 0.3015, 0.3051



3.4440, 0.1618, 0.0665



0.2613, 0.1778, 0.0753



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



31.5154, 0.3419, 0.2356



37.6739, 0.3499, 0.2192



58.4416, 0.3249, 0.4707



13.2235, 0.3171, 0.3109



10.6916, 0.3851, 0.1895

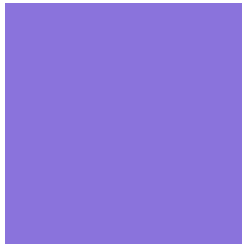


0.7050, 0.3726, 0.1826



# Previews

## White Background



This preview shows how the Yxy color 22.8320, 0.2402, 0.1857 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

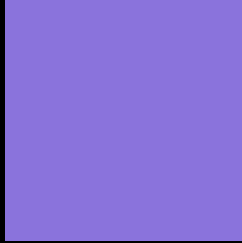
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 22.8320, 0.2402, 0.1857 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

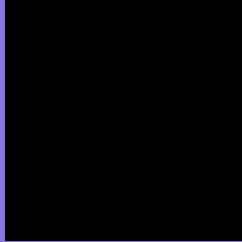
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 22.8320, 0.2402, 0.1857**

## **Background**



This preview shows how black text looks on a background with the Yxy color 22.8320, 0.2402, 0.1857.



This preview shows how white text looks on a background with the Yxy color 22.8320, 0.2402, 0.1857.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

22.8320, 0.2402, 0.1857

### Protanopia

23.1035, 0.2013, 0.1799

### Deuteranopia

23.0382, 0.2063, 0.2005



## Tritanopia

22.8232, 0.2895, 0.3113

# Trichromacy



## Original Color

22.8320, 0.2402, 0.1857

## Protanomaly

22.6509, 0.2123, 0.1802

## Deuteranomaly

22.5841, 0.2159, 0.1940

## Tritanomaly

22.3740, 0.2692, 0.2556

# Monochromacy



## Original Color

22.8320, 0.2402, 0.1857

## Achromatopsia

23.8398, 0.3127, 0.3290

## Achromatomaly

23.0463, 0.2828, 0.2674

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.8320, 0.2402, 0.1857 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(138, 115, 220)` looks like.

```
.text, #text, p{  
    color:rgb(138, 115, 220)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(138, 115, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 115, 220) }
```

## Border

The CSS property to change the border of an element to Yxy 22.8320, 0.2402, 0.1857 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(138, 115, 220) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(138, 115, 220) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(138, 115, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(138, 115, 220); -webkit-box-shadow:4px 4px 4px 4px rgb(138, 115, 220); box-shadow:4px 4px 4px 4px rgb(138, 115, 220) }
```



# Background

The CSS property to change the background color of an element to Yxy 22.8320, 0.2402, 0.1857 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 115, 220) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(138,  
115, 220) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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