

# Converting Colors

$Y_{xy}(22.4621, 0.5013, 0.4853)$

Have a look what the booklet for  
Yxy(22.4621, 0.5013, 0.4853)  
contains.

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**Color**

**Yxy(22.7120, 0.4779, 0.4587)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA7B00
RGB	170, 123, 0
RGB Percent	67%, 48%, 0%
CMY	0.3333, 0.5176, 0.9996
CMYK	0.00, 0.28, 1.00, 0.33
HSL	43°, 100%, 33%
HSV	43°, 100%, 67%
XYZ	23.6627, 22.7120, 3.1392
YIQ	123.0310, 67.4950, -28.2890

# Conversions

## Conversions Part 2

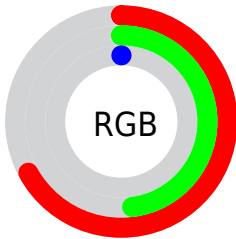
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	65, 170, 0
Decimal	11172608
CIE <sub>Lab</sub>	54.77, 9.48, 60.70
CIE <sub>LCh</sub>	55, 61.434, 81.124
Yxy	22.7120, 0.4779, 0.4587
Android (android.graphics.Color)	4289362688 (0xFFAA7B00)
YUV	123.0310, -60.6543, 41.1918
Hunter-Lab	47.6571, 5.2287, 29.4545

# Details

The Yxy color **22.7120, 0.4779, 0.4587** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **4.9448, 0.1599, 0.0955**, and the grayscale version is **20.0098, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.8882, 0.4500, 0.4400**, and **8.5429, 0.4902, 0.4490** is the 20% darker color. If you saturate the color by 10%, you get **22.7064, 0.4780, 0.4587**, and if you desaturate by 10%, it is **23.9489, 0.4669, 0.4589**.

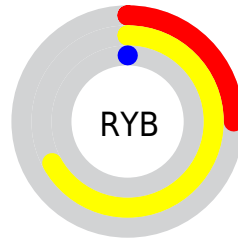
# Distribution



Red (67%)

Green (48%)

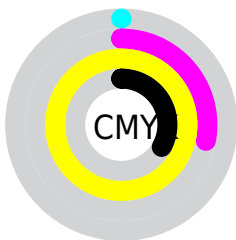
Blue (0%)



Red (25%)

Yellow (67%)

Blue (0%)

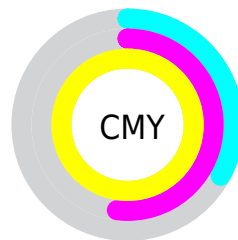


Cyan (0%)

Magenta (28%)

Yellow (100%)

Black (33%)



Cyan (33%)

Magenta (52%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.7120, 0.4779, 0.4587 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 22.7120, 0.4779, 0.4587 by changing the saturation by 10% instead.





 22.7120, 0.4779,  
0.4587

 22.7120, 0.4779,  
0.4587


266.2423, 0.3946,  
0.3986


 14.3810, 0.4945,  
0.4676


 47.9200, 0.4497,  
0.4403


 8.3861, 0.5191,  
0.4809


 65.5658, 0.4382,  
0.4322

 4.3430, 0.5267,  
0.4733

 87.0853, 0.4283,  
0.4248

 1.8672, 0.5390,  
0.4610

 112.8629, 0.4197,  
0.4183

 0.5286, 0.5813,  
0.4187

 143.2830, 0.4122,  
0.4125

 0.0000, 0.0000,  
0.0000

 178.7300, 0.4056,

0.4073

219.5883, 0.3998,  
0.4027

22.7120, 0.4779,  
0.4587

22.7120, 0.4779,  
0.4587

22.7064, 0.4780,  
0.4587

23.9489, 0.4669,  
0.4589

25.2763, 0.4534,  
0.4552

26.7098, 0.4373,  
0.4469

28.2565, 0.4194,  
0.4345

29.9225, 0.4004,  
0.4191

■ 31.7131, 0.3812,  
0.4018

■ 33.6334, 0.3624,  
0.3834

■ 35.6880, 0.3445,  
0.3648

■ 37.8810, 0.3279,  
0.3465

# Harmonies

## Analogous

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



22.7120, 0.5218, 0.3842



22.7120, 0.4779, 0.4587



22.7120, 0.3948, 0.5207

# Triad

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



22.7120, 0.4779, 0.4587



22.7120, 0.1541, 0.3026



22.7120, 0.2971, 0.2019

# Complementary

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



22.7120, 0.4779, 0.4587



4.9448, 0.1599, 0.0955

# 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.



22.7120, 0.2084, 0.1777



22.7120, 0.4779, 0.4587



22.7120, 0.1387, 0.2188

# Square

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



22.7120, 0.4779, 0.4587



22.7120, 0.2085, 0.4268



22.7120, 0.1566, 0.1811



22.7120, 0.4094, 0.2499



# Rectangle

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



22.7120, 0.4779, 0.4587



22.7120, 0.3299, 0.5316



22.7120, 0.1566, 0.1811



22.7120, 0.2636, 0.1909

# Sweetspot

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



22.7131, 0.4779, 0.4587



60.8005, 0.3635, 0.3845



8.7646, 0.5804, 0.2972



13.2354, 0.3711, 0.3921



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290



# Same Dimension

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



22.7131, 0.4779, 0.4587



40.8109, 0.4792, 0.4577



33.7560, 0.3817, 0.5351



8.4176, 0.3269, 0.3453



16.7978, 0.4772, 0.4593



0.4877, 0.4543, 0.4775



# Inverse Universe

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



4.9448, 0.1599, 0.0955



8.6441, 0.1591, 0.0926



3.2964, 0.1618, 0.0665



7.6259, 0.2986, 0.3122



3.7153, 0.1604, 0.0972

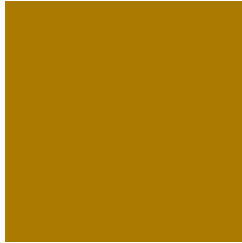


0.1745, 0.1786, 0.1631



# Previews

## White Background



This preview shows how the Yxy color 22.7120, 0.4779, 0.4587 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

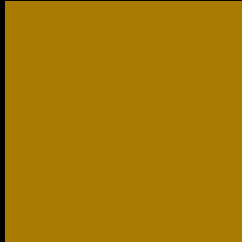
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 22.7120, 0.4779, 0.4587 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 22.7120, 0.4779, 0.4587**

## **Background**



This preview shows how black text looks on a background with the Yxy color 22.7120, 0.4779, 0.4587.



This preview shows how white text looks on a background with the Yxy color 22.7120, 0.4779, 0.4587.

# 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

22.7120, 0.4779, 0.4587

### Protanopia

22.8203, 0.4370, 0.4861

### Deuteranopia

22.7742, 0.4705, 0.4646



## Tritanopia

22.6948, 0.3826, 0.3158

# Trichromacy



## Original Color

22.7120, 0.4779, 0.4587

## Protanomaly

22.7816, 0.4517, 0.4765

## Deuteranomaly

22.6308, 0.4731, 0.4626

## Tritanomaly

22.2713, 0.4370, 0.3864

# Monochromacy



## Original Color

22.7120, 0.4779, 0.4587

## Achromatopsia

19.8069, 0.3127, 0.3290

## Achromatomaly

20.2914, 0.3880, 0.4085

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  22.7120, 0.4779, 0.4587 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(170, 123, 0)` looks like.

```
.text, #text, p{  
    color:rgb(170, 123, 0)  
}
```

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(170, 123, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 123, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 22.7120, 0.4779, 0.4587 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(170, 123, 0) }
```

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

```
.border{ border-color:rgb(170, 123, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 123, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 123, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 123, 0);  
box-shadow:4px 4px 4px 4px rgb(170, 123,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 22.7120, 0.4779, 0.4587 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 123, 0) }
```

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

```
.background{ background-color: rgb(170,  
123, 0) }
```

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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