

# Converting Colors

$Y_{xy}(24.6601, 0.4729, 0.5007)$

Have a look what the booklet for  
Yxy(24.6601, 0.4729, 0.5007)  
contains.

<b>Yxy(24.9427, 0.4554, 0.4766)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(24.9427, 0.4554, 0.4766)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A48600
RGB	164, 134, 0
RGB Percent	64%, 53%, 0%
CMY	0.3569, 0.4745, 0.9999
CMYK	0.00, 0.18, 1.00, 0.36
HSL	49°, 100%, 32%
HSV	49°, 100%, 64%
XYZ	23.8332, 24.9427, 3.5588
YIQ	127.6940, 60.8940, -35.3140

# Conversions

## Conversions Part 2

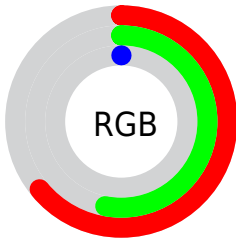
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	37, 164, 0
Decimal	10782208
CIE <sub>Lab</sub>	57.02, 0.56, 61.95
CIE <sub>LCh</sub>	57, 61.953, 89.486
Yxy	24.9427, 0.4554, 0.4766
Android (android.graphics.Color)	4288972288 (0xFFA48600)
YUV	127.6940, -62.9531, 31.8404
Hunter-Lab	49.9427, -2.2175, 30.7350

# Details

The Yxy color **24.9427, 0.4554, 0.4766** is a dark color, and the websafe version is hex **CC9933**. A complement of this color would be **3.6089, 0.1550, 0.0781**, and the grayscale version is **21.6826, 0.3127, 0.3290**.

A 20% lighter version of the original color is **51.6583, 0.4325, 0.4534**, and **9.6851, 0.4604, 0.4727** is the 20% darker color. If you saturate the color by 10%, you get **24.9425, 0.4554, 0.4766**, and if you desaturate by 10%, it is **25.8233, 0.4478, 0.4748**.

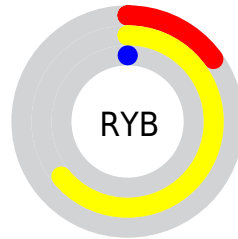
# Distribution



Red (64%)

Green (53%)

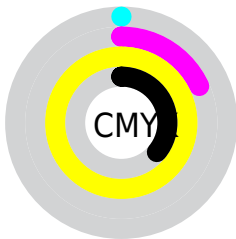
Blue (0%)



Red (15%)

Yellow (64%)

Blue (0%)

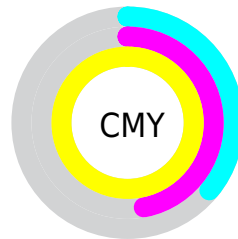


Cyan (0%)

Magenta (18%)

Yellow (100%)

Black (36%)



Cyan (36%)

Magenta (47%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.9427, 0.4554, 0.4766 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 24.9427, 0.4554, 0.4766 by changing the saturation by 10% instead.





 24.9427, 0.4554,  
0.4766

 24.9427, 0.4554,  
0.4766


277.5525, 0.3859,  
0.4051


 16.0344, 0.4681,  
0.4895


 51.5643, 0.4326,  
0.4533

 9.5485, 0.4857,  
0.5073


 70.0463, 0.4231,  
0.4435

 5.1006, 0.4895,  
0.5105

 92.4883, 0.4148,  
0.4349

 2.3064, 0.4902,  
0.5098

 119.2747, 0.4075,  
0.4274

 0.7771, 0.4919,  
0.5081

 150.7900, 0.4011,  
0.4208


 0.0000, 0.0000,  
0.0000

 187.4184, 0.3954,


0.4149


 229.5444, 0.3904,  
0.4097


 24.9427, 0.4554,  
0.4766


 24.9427, 0.4554,  
0.4766


 24.9425, 0.4554,  
0.4766

 25.8233, 0.4478,  
0.4748

 26.7578, 0.4379,  
0.4695

 27.7610, 0.4254,  
0.4597

 28.8386, 0.4107,  
0.4460

 29.9958, 0.3946,  
0.4291

■ 31.2371, 0.3776,  
0.4101

■ 32.5666, 0.3604,  
0.3898

■ 33.9880, 0.3437,  
0.3691

■ 35.5048, 0.3277,  
0.3487

# Harmonies

## Analogous

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



24.9427, 0.5115, 0.4044



24.9427, 0.4554, 0.4766



24.9427, 0.3678, 0.5253

# Triad

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



24.9427, 0.4554, 0.4766



24.9427, 0.1491, 0.2756



24.9427, 0.3273, 0.2152

# Complementary

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



24.9427, 0.4554, 0.4766



3.6089, 0.1550, 0.0781

# 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.



24.9427, 0.2311, 0.1843



24.9427, 0.4554, 0.4766



24.9427, 0.1433, 0.2068

# Square

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



24.9427, 0.4554, 0.4766



24.9427, 0.1918, 0.3896



24.9427, 0.1700, 0.1798



24.9427, 0.4365, 0.2679



# Rectangle

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



24.9427, 0.4554, 0.4766



24.9427, 0.3032, 0.5189



24.9427, 0.1700, 0.1798



24.9427, 0.2920, 0.2022

# Sweetspot

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



24.9439, 0.4554, 0.4766



58.9792, 0.3614, 0.3910



7.9859, 0.6099, 0.3134



12.6800, 0.3683, 0.3992



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290



# Same Dimension

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



24.9439, 0.4554, 0.4766



45.0001, 0.4562, 0.4760



29.9957, 0.3650, 0.5484



8.0160, 0.3266, 0.3472



19.1916, 0.4550, 0.4769



0.4572, 0.4401, 0.4888



# Inverse Universe

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



3.6089, 0.1550, 0.0781



6.3271, 0.1544, 0.0758



3.4091, 0.1731, 0.0727



7.0598, 0.2987, 0.3101



2.8197, 0.1554, 0.0794

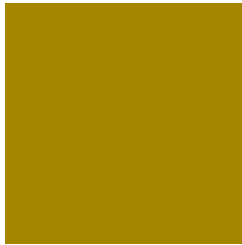


0.1140, 0.1712, 0.1361



# Previews

## White Background



This preview shows how the Yxy color 24.9427, 0.4554, 0.4766 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

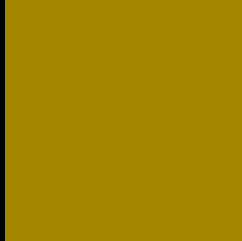
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 24.9427, 0.4554, 0.4766 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 24.9427, 0.4554, 0.4766**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.9427, 0.4554, 0.4766.

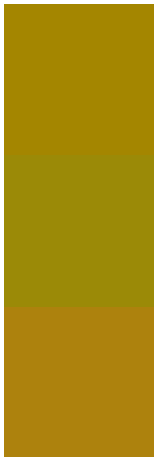


This preview shows how white text looks on a background with the Yxy color 24.9427, 0.4554, 0.4766.

# 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

24.9427, 0.4554, 0.4766

### Protanopia

25.1609, 0.4383, 0.4870

### Deuteranopia

24.8786, 0.4682, 0.4606



## Tritanopia

25.0464, 0.3582, 0.3156

# Trichromacy



## Original Color

24.9427, 0.4554, 0.4766

## Protanomaly

25.1692, 0.4437, 0.4841

## Deuteranomaly

24.7962, 0.4646, 0.4657

## Tritanomaly

24.4191, 0.4121, 0.3946

# Monochromacy



## Original Color

24.9427, 0.4554, 0.4766

## Achromatopsia

21.5861, 0.3127, 0.3290

## Achromatomaly

22.2221, 0.3811, 0.4140

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.9427, 0.4554, 0.4766 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(164, 134, 0)` looks like.

```
.text, #text, p{  
    color:rgb(164, 134, 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(164, 134, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 134, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 24.9427, 0.4554, 0.4766 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(164, 134, 0) }
```

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

```
.border{ border-color:rgb(164, 134, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 134, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 134, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 134, 0);  
box-shadow:4px 4px 4px 4px rgb(164, 134,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.9427, 0.4554, 0.4766 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 134, 0) }
```

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

```
.background{ background-color: rgb(164,  
134, 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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