

# Converting Colors

$Y_{xy}(27.7548, 0.4825, 0.4551)$

Have a look what the booklet for  
Yxy(27.7548, 0.4825, 0.4551)  
contains.

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**Color**

**Yxy(27.8690, 0.4822, 0.4553)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD8600
RGB	189, 134, 0
RGB Percent	74%, 53%, 0%
CMY	0.2587, 0.4745, 0.9997
CMYK	0.00, 0.29, 1.00, 0.26
HSL	43°, 100%, 37%
HSV	43°, 100%, 74%
XYZ	29.5156, 27.8690, 3.8256
YIQ	135.1690, 75.7940, -30.0140

# Conversions

## Conversions Part 2

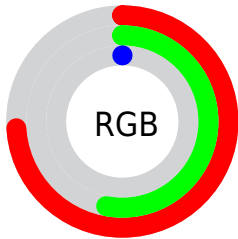
<b>Format</b>	<b>Color</b>
<b>RYB</b>	78, 189, 0
Decimal	12420608
CIELab	59.77, 11.99, 65.13
CIElCh	60, 66.228, 79.566
Yxy	27.8690, 0.4822, 0.4553
Android (android.graphics.Color)	4290610688 (0xFFBD8600)
YUV	135.1690, -66.6383, 47.2098
Hunter-Lab	52.7911, 7.4151, 32.6572

# Details

The Yxy color **27.8690, 0.4822, 0.4553** is a dark color, and the websafe version is hex **CC9900**. A complement of this color would be **6.4180, 0.1604, 0.0975**, and the grayscale version is **24.5304, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.3068, 0.4548, 0.4392**, and **11.2428, 0.4940, 0.4460** is the 20% darker color. If you saturate the color by 10%, you get **27.8638, 0.4822, 0.4553**, and if you desaturate by 10%, it is **29.4787, 0.4708, 0.4564**.

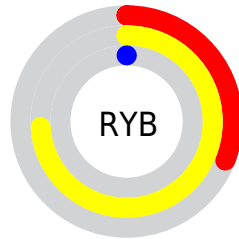
# Distribution



Red (74%)

Green (53%)

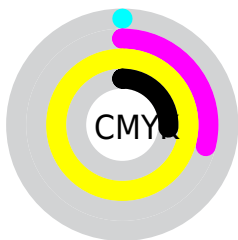
Blue (0%)



Red (31%)

Yellow (74%)

Blue (0%)

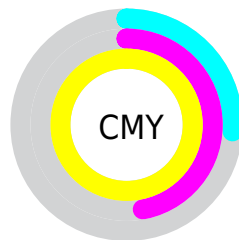


Cyan (0%)

Magenta (29%)

Yellow (100%)

Black (26%)



Cyan (26%)

Magenta (47%)

Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.8690, 0.4822, 0.4553 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 27.8690, 0.4822, 0.4553 by changing the saturation by 10% instead.





 27.8690, 0.4822,  
0.4553


 27.8690, 0.4822,  
0.4553


291.8404, 0.3996,  
0.3999


 18.2269, 0.4982,  
0.4629


 56.2752, 0.4548,  
0.4391

 11.1130, 0.5185,  
0.4713


 75.8082, 0.4435,  
0.4316


 6.1429, 0.5315,  
0.4685

 99.4069, 0.4337,  
0.4249

 2.9322, 0.5434,  
0.4566

 127.4557, 0.4251,  
0.4188

 1.0964, 0.5639,  
0.4361

 160.3391, 0.4175,  
0.4133

 0.0000, 1.0000,  
0.0000

 198.4414, 0.4108,

 0.0000, 0.0000,

0.4084

0.0000

242.1471, 0.4049,  
0.4039

27.8690, 0.4822,  
0.4553

27.8690, 0.4822,  
0.4553

27.8638, 0.4822,  
0.4553

29.4787, 0.4708,  
0.4564

31.2129, 0.4569,  
0.4532

33.0904, 0.4402,  
0.4453

35.1207, 0.4216,  
0.4333

37.3119, 0.4021,  
0.4182

■ 39.6711, 0.3823,  
0.4010

■ 42.2051, 0.3631,  
0.3828

■ 44.9198, 0.3450,  
0.3644

■ 47.8210, 0.3281,  
0.3463

# Harmonies

## Analogous

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



27.8690, 0.5237, 0.3803



27.8690, 0.4822, 0.4553



27.8690, 0.3999, 0.5195

# Triad

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



27.8690, 0.4822, 0.4553



27.8690, 0.1550, 0.3081



27.8690, 0.2914, 0.1993

# Complementary

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



27.8690, 0.4822, 0.4553



6.4180, 0.1604, 0.0975

# 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.



27.8690, 0.2041, 0.1763



27.8690, 0.4822, 0.4553



27.8690, 0.1377, 0.2212

# Square

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



27.8690, 0.4822, 0.4553



27.8690, 0.2117, 0.4342



27.8690, 0.1541, 0.1814



27.8690, 0.4042, 0.2465



# Rectangle

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



27.8690, 0.4822, 0.4553



27.8690, 0.3350, 0.5337



27.8690, 0.1541, 0.1814



27.8690, 0.2583, 0.1888

# Sweetspot

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



27.8704, 0.4822, 0.4553



75.3263, 0.3641, 0.3838



11.1162, 0.5765, 0.2950



15.7804, 0.3721, 0.3915



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



27.8704, 0.4822, 0.4553



49.4582, 0.4834, 0.4543



43.0057, 0.3843, 0.5330



10.6383, 0.3271, 0.3452



18.8800, 0.4812, 0.4561



0.8471, 0.4632, 0.4704



# Inverse Universe

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



6.4180, 0.1604, 0.0975



11.1243, 0.1597, 0.0949



4.0863, 0.1598, 0.0654



9.6660, 0.2984, 0.3123



4.4295, 0.1610, 0.0996



0.2903, 0.1750, 0.1499



# Previews

## White Background



This preview shows how the Yxy color 27.8690, 0.4822, 0.4553 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 27.8690, 0.4822, 0.4553 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 27.8690, 0.4822, 0.4553**

## **Background**



This preview shows how black text looks on a background with the Yxy color 27.8690, 0.4822, 0.4553.



This preview shows how white text looks on a background with the Yxy color 27.8690, 0.4822, 0.4553.

# 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

27.8690, 0.4822, 0.4553

### Protanopia

28.0639, 0.4377, 0.4856

### Deuteranopia

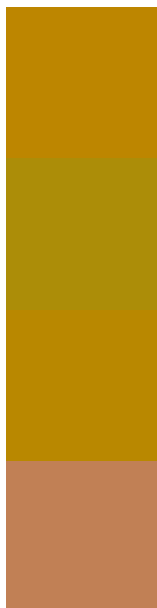
27.9586, 0.4720, 0.4634



## Tritanopia

27.9906, 0.3867, 0.3170

# Trichromacy



## Original Color

27.8690, 0.4822, 0.4553

## Protanomaly

27.8379, 0.4534, 0.4749

## Deuteranomaly

27.9226, 0.4754, 0.4607

## Tritanomaly

27.4317, 0.4414, 0.3863

# Monochromacy



## Original Color

27.8690, 0.4822, 0.4553

## Achromatopsia

24.2281, 0.3127, 0.3290

## Achromatomaly

24.9684, 0.3899, 0.4080

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.8690, 0.4822, 0.4553 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(189, 134, 0)` looks like.

```
.text, #text, p{  
    color:rgb(189, 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(189, 134, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 134, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 27.8690, 0.4822, 0.4553 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(189, 134, 0) }
```

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

```
.border{ border-color:rgb(189, 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(189, 134, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 134, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 134, 0);  
box-shadow:4px 4px 4px 4px rgb(189, 134,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.8690, 0.4822, 0.4553 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 134, 0) }
```

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

```
.background{ background-color: rgb(189,  
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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