

# Converting Colors

$Y_{xy}(21.1141, 0.5021, 0.4395)$

Have a look what the booklet for  
Yxy(21.1141, 0.5021, 0.4395)  
contains.

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**Color**

**Yxy(21.0533, 0.5032, 0.4386)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B27000
RGB	178, 112, 0
RGB Percent	70%, 44%, 0%
CMY	0.3020, 0.5608, 0.9996
CMYK	0.00, 0.37, 1.00, 0.30
HSL	38°, 100%, 35%
HSV	38°, 100%, 70%
XYZ	24.1542, 21.0533, 2.7937
YIQ	118.9660, 75.2880, -20.8400

# Conversions

## Conversions Part 2

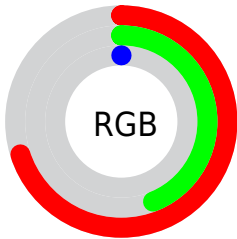
Format	Color
<a href="#">RYB</a>	105, 178, 0
Decimal	11694080
CIELab	53.01, 19.26, 59.99
CIELCh	53, 63.005, 72.203
Yxy	21.0533, 0.5032, 0.4386
Android (android.graphics.Color)	4289884160 (0xFFB27000)
YUV	118.9660, -58.6502, 51.7728
Hunter-Lab	45.8839, 13.6691, 28.5088

# Details

The Yxy color **21.0533, 0.5032, 0.4386** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **7.1234, 0.1663, 0.1186**, and the grayscale version is **18.6126, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.2833, 0.4691, 0.4263**, and **7.5887, 0.5246, 0.4217** is the 20% darker color. If you saturate the color by 10%, you get **21.0449, 0.5033, 0.4386**, and if you desaturate by 10%, it is **22.6087, 0.4882, 0.4412**.

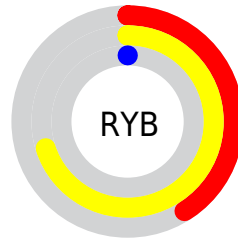
# Distribution



Red (70%)

Green (44%)

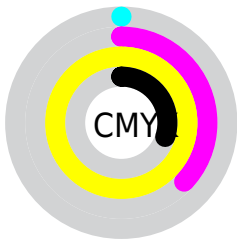
Blue (0%)



Red (41%)

Yellow (70%)

Blue (0%)

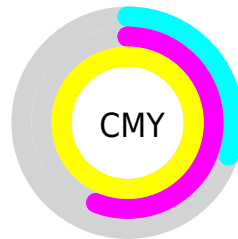


Cyan (0%)

Magenta (37%)

Yellow (100%)

Black (30%)



Cyan (30%)

Magenta (56%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.0533, 0.5032, 0.4386 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 21.0533, 0.5032, 0.4386 by changing the saturation by 10% instead.





 21.0533, 0.5032,  
0.4386


 21.0533, 0.5032,  
0.4386


257.5616, 0.4047,  
0.3919


 13.1630, 0.5239,  
0.4428


 45.1762, 0.4691,  
0.4261


 7.5409, 0.5525,  
0.4475


 62.1776, 0.4555,  
0.4198

 3.8026, 0.5682,  
0.4318

 82.9848, 0.4438,  
0.4139

 1.5638, 0.5936,  
0.4064

 107.9822, 0.4338,  
0.4086


 0.3330, 0.7026,  
0.2974


 137.5542, 0.4250,  
0.4038


 0.0000, 0.0000,  
0.0000


 172.0851, 0.4174,

0.3994


 211.9595, 0.4107,  
0.3954

 21.0533, 0.5032,  
0.4386


 21.0533, 0.5032,  
0.4386


 21.0449, 0.5033,  
0.4386

 22.6087, 0.4882,  
0.4412

 24.3112, 0.4707,  
0.4395

 26.1788, 0.4505,  
0.4329

 28.2208, 0.4288,  
0.4223

 30.4451, 0.4067,  
0.4087

■ 32.8591, 0.3850,  
0.3932

■ 35.4695, 0.3645,  
0.3769

■ 38.2824, 0.3455,  
0.3604

■ 41.3037, 0.3282,  
0.3443

# Harmonies

## Analogous

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



21.0533, 0.5327, 0.3619



21.0533, 0.5032, 0.4386



21.0533, 0.4247, 0.5126

# Triad

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



21.0533, 0.5032, 0.4386



21.0533, 0.1595, 0.3366



21.0533, 0.2645, 0.1867

# Complementary

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



21.0533, 0.5032, 0.4386



7.1234, 0.1663, 0.1186

# 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.



21.0533, 0.1840, 0.1698



21.0533, 0.5032, 0.4386



21.0533, 0.1330, 0.2335

# Square

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



21.0533, 0.5032, 0.4386



21.0533, 0.2276, 0.4707



21.0533, 0.1418, 0.1824



21.0533, 0.3785, 0.2295



# Rectangle

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



21.0533, 0.5032, 0.4386



21.0533, 0.3593, 0.5415



21.0533, 0.1418, 0.1824



21.0533, 0.2333, 0.1781

# Sweetspot

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



21.0544, 0.5032, 0.4386



64.0391, 0.3657, 0.3778



9.8880, 0.5437, 0.2769



13.7428, 0.3741, 0.3847



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



21.0544, 0.5032, 0.4386



37.7112, 0.5051, 0.4372



39.0321, 0.3990, 0.5214



9.3661, 0.3272, 0.3433



15.1821, 0.5021, 0.4395



0.5849, 0.4736, 0.4622



# Inverse Universe

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



7.1234, 0.1663, 0.1186



12.4981, 0.1654, 0.1155



3.3746, 0.1544, 0.0624



8.7294, 0.2985, 0.3143



5.2024, 0.1668, 0.1205

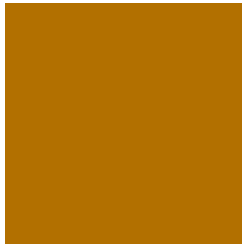


0.2777, 0.1832, 0.1794



# Previews

## White Background



This preview shows how the Yxy color 21.0533, 0.5032, 0.4386 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 21.0533, 0.5032, 0.4386 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 21.0533, 0.5032, 0.4386**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.0533, 0.5032, 0.4386.



This preview shows how white text looks on a background with the Yxy color 21.0533, 0.5032, 0.4386.

# 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

21.0533, 0.5032, 0.4386

### Protanopia

21.0474, 0.4367, 0.4841

### Deuteranopia

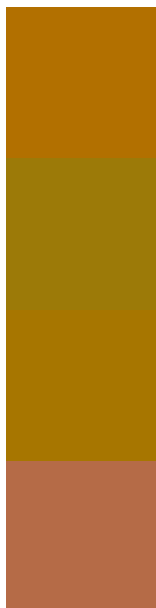
21.2518, 0.4707, 0.4645



## Tritanopia

21.0156, 0.4108, 0.3178

# Trichromacy



## Original Color

21.0533, 0.5032, 0.4386

## Protanomaly

21.0045, 0.4612, 0.4677

## Deuteranomaly

21.1724, 0.4821, 0.4554

## Tritanomaly

20.7941, 0.4638, 0.3789

# Monochromacy



## Original Color

21.0533, 0.5032, 0.4386

## Achromatopsia

18.4475, 0.3127, 0.3290

## Achromatomaly

18.5880, 0.3957, 0.4005

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.0533, 0.5032, 0.4386 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(178, 112, 0)` looks like.

```
.text, #text, p{  
    color:rgb(178, 112, 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(178, 112, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 112, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 21.0533, 0.5032, 0.4386 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(178, 112, 0) }
```

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

```
.border{ border-color:rgb(178, 112, 0) }
```

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

Here you see how a box with a 4 pixel rgb(178, 112, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 112, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 112, 0);  
box-shadow:4px 4px 4px 4px rgb(178, 112,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.0533, 0.5032, 0.4386 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 112, 0) }
```

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

```
.background{ background-color: rgb(178,  
112, 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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