

Converting Colors

$Y_{xy}(20.2018, 0.4580, 0.4745)$

Have a look what the booklet for
Yxy(20.2018, 0.4580, 0.4745)
contains.

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Color

Yxy(20.1588, 0.4575, 0.4750)

Conversions

Conversions Part 1

Format	Color
Hex	967900
RGB	150, 121, 0
RGB Percent	59%, 47%, 0%
CMY	0.4117, 0.5255, 1.0000
CMYK	0.00, 0.19, 1.00, 0.41
HSL	48°, 100%, 29%
HSV	48°, 100%, 59%
XYZ	19.4161, 20.1588, 2.8647
YIQ	115.8770, 56.1250, -31.4830

Conversions

Conversions Part 2

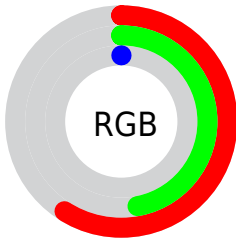
Format	Color
R_{YB}	36, 150, 0
Decimal	9861376
CIE _{Lab}	52.02, 1.30, 57.79
CIE _{LCh}	52, 57.800, 88.712
Yxy	20.1588, 0.4575, 0.4750
Android (android.graphics.Color)	4288051456 (0xFF967900)
YUV	115.8770, -57.1274, 29.9259
Hunter-Lab	44.8986, -1.3812, 27.6461

Details

The Yxy color **20.1588, 0.4575, 0.4750** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **3.0815, 0.1558, 0.0807**, and the grayscale version is **17.5919, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.6904, 0.4323, 0.4504**, and **7.1980, 0.4637, 0.4700** is the 20% darker color. If you saturate the color by 10%, you get **20.1600, 0.4575, 0.4750**, and if you desaturate by 10%, it is **20.9102, 0.4492, 0.4729**.

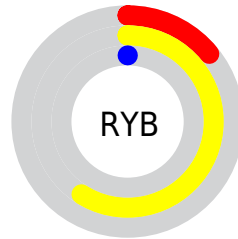
Distribution



Red (59%)

Green (47%)

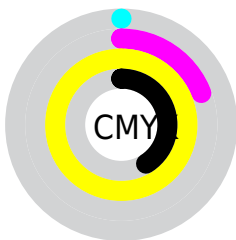
Blue (0%)



Red (14%)

Yellow (59%)

Blue (0%)

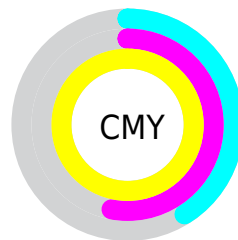


Cyan (0%)

Magenta (19%)

Yellow (100%)

Black (41%)



Cyan (41%)


Magenta (53%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.1588, 0.4575, 0.4750 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 20.1588, 0.4575, 0.4750 by changing the saturation by 10% instead.


 20.1588, 0.4575,
0.4750


 20.1588, 0.4575,
0.4750

252.7735, 0.3841,
0.4019


 12.5105, 0.4715,
0.4884


 43.6833, 0.4328,
0.4507

 7.0924, 0.4920,
0.5080


 60.3282, 0.4227,
0.4406


 3.5199, 0.4932,
0.5068

 80.7409, 0.4139,
0.4318

 1.4088, 0.4953,
0.5047

 105.3057, 0.4063,
0.4242

 0.2232, 0.5221,
0.4779


 134.4069, 0.3996,
0.4175


 0.0000, 0.0000,
0.0000


 168.4290, 0.3938,


0.4116


 207.7564, 0.3887,
0.4065


 20.1588, 0.4575,
0.4750


 20.1588, 0.4575,
0.4750

 20.1600, 0.4575,
0.4750

 20.9102, 0.4492,
0.4729

 21.7066, 0.4389,
0.4675

 22.5611, 0.4260,
0.4577

 23.4783, 0.4110,
0.4441

 24.4625, 0.3946,
0.4274

■ 25.5172, 0.3775,
0.4086

■ 26.6457, 0.3603,
0.3887

■ 27.8511, 0.3436,
0.3684

■ 29.1361, 0.3276,
0.3483

Harmonies

Analogous

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



20.1588, 0.5125, 0.4025



20.1588, 0.4575, 0.4750



20.1588, 0.3703, 0.5251

Triad

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



20.1588, 0.4575, 0.4750



20.1588, 0.1495, 0.2780



20.1588, 0.3245, 0.2140

Complementary

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



20.1588, 0.4575, 0.4750



3.0815, 0.1558, 0.0807

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.



20.1588, 0.2290, 0.1836



20.1588, 0.4575, 0.4750



20.1588, 0.1428, 0.2078

Square

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



20.1588, 0.4575, 0.4750



20.1588, 0.1933, 0.3929



20.1588, 0.1687, 0.1799



20.1588, 0.4341, 0.2662

Rectangle

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



20.1588, 0.4575, 0.4750



20.1588, 0.3057, 0.5203



20.1588, 0.1687, 0.1799



20.1588, 0.2893, 0.2011

Sweetspot

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



20.1600, 0.4575, 0.4750



46.8952, 0.3613, 0.3899



6.5788, 0.6040, 0.3101



10.2222, 0.3678, 0.3975



74.8414, 0.3127, 0.3290



11.9280, 0.3127, 0.3290

Same Dimension

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



20.1600, 0.4575, 0.4750



35.3281, 0.4583, 0.4743



24.8197, 0.3681, 0.5459



6.5560, 0.3264, 0.3467



16.7621, 0.4571, 0.4752



0.2444, 0.4365, 0.4917

Inverse Universe

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



3.0815, 0.1558, 0.0807



5.2391, 0.1551, 0.0782



2.7603, 0.1716, 0.0719



5.8038, 0.2989, 0.3106



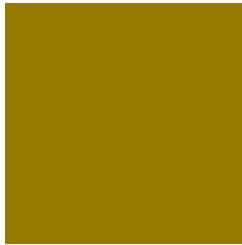
2.5933, 0.1561, 0.0818



0.0652, 0.1741, 0.1468

Previews

White Background



This preview shows how the Yxy color 20.1588, 0.4575, 0.4750 looks on a white background.

Color Contrast Check

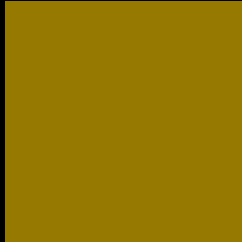
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.1588, 0.4575, 0.4750 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

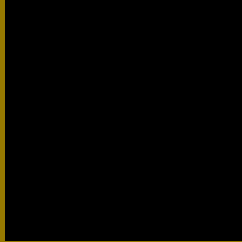
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.1588, 0.4575, 0.4750

Background



This preview shows how black text looks on a background with the Yxy color 20.1588, 0.4575, 0.4750.



This preview shows how white text looks on a background with the Yxy color 20.1588, 0.4575, 0.4750.

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

20.1588, 0.4575, 0.4750

Protanopia

20.2558, 0.4375, 0.4874

Deuteranopia

20.1491, 0.4676, 0.4609



Tritanopia

20.0367, 0.3602, 0.3144

Trichromacy



Original Color

20.1588, 0.4575, 0.4750

Protanomaly

20.3534, 0.4445, 0.4830

Deuteranomaly

20.0790, 0.4635, 0.4662

Tritanomaly

19.6673, 0.4144, 0.3919

Monochromacy



Original Color

20.1588, 0.4575, 0.4750

Achromatopsia

17.4647, 0.3127, 0.3290

Achromatomaly

18.0405, 0.3799, 0.4124

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.1588, 0.4575, 0.4750 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(150, 121, 0)` looks like.

```
.text, #text, p{  
    color:rgb(150, 121, 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(150, 121, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 121, 0) }
```

Border

The CSS property to change the border of an element to Yxy 20.1588, 0.4575, 0.4750 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(150, 121, 0) }
```

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

```
.border{ border-color:rgb(150, 121, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 121, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 121, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 121, 0);  
box-shadow:4px 4px 4px 4px rgb(150, 121,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 20.1588, 0.4575, 0.4750 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 121, 0) }
```

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

```
.background{ background-color: rgb(150,  
121, 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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