

Converting Colors

$Y_{xy}(20.9849, 0.4760, 0.4603)$

Have a look what the booklet for
Yxy(20.9849, 0.4760, 0.4603)
contains.

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Color

$Yxy(20.9802, 0.4760, 0.4602)$

Conversions

Conversions Part 1

Format	Color
Hex	A37700
RGB	163, 119, 0
RGB Percent	64%, 47%, 0%
CMY	0.3608, 0.5333, 0.9996
CMYK	0.00, 0.27, 1.00, 0.36
HSL	44°, 100%, 32%
HSV	44°, 100%, 64%
XYZ	21.7005, 20.9802, 2.9086
YIQ	118.5900, 64.4230, -27.6810

Conversions

Conversions Part 2

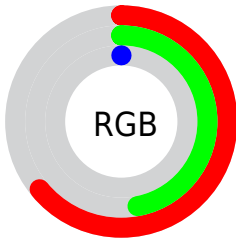
Format	Color
RYB	60, 163, 0
Decimal	10712832
CIELab	52.93, 8.49, 59.05
CIElCh	53, 59.662, 81.816
Yxy	20.9802, 0.4760, 0.4602
Android (android.graphics.Color)	4288902912 (0xFFA37700)
YUV	118.5900, -58.4649, 38.9476
Hunter-Lab	45.8041, 4.4102, 28.2979

Details

The Yxy color **20.9802, 0.4760, 0.4602** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **4.4528, 0.1596, 0.0946**, and the grayscale version is **18.4885, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.0488, 0.4470, 0.4410**, and **7.5706, 0.4880, 0.4507** is the 20% darker color. If you saturate the color by 10%, you get **20.9744, 0.4761, 0.4602**, and if you desaturate by 10%, it is **22.0918, 0.4651, 0.4601**.

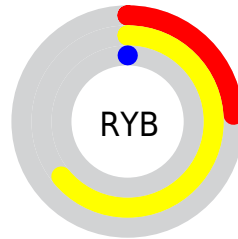
Distribution



Red (64%)

Green (47%)

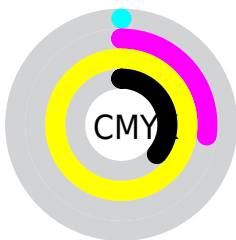
Blue (0%)



Red (24%)

Yellow (64%)

Blue (0%)

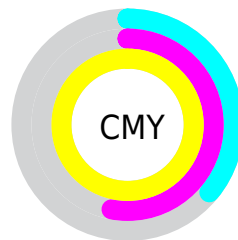


Cyan (0%)

Magenta (27%)

Yellow (100%)

Black (36%)



Cyan (36%)


Magenta (53%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.9802, 0.4760, 0.4602 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 20.9802, 0.4760, 0.4602 by changing the saturation by 10% instead.


 20.9802, 0.4760,
0.4602


 20.9802, 0.4760,
0.4602


257.1733, 0.3926,
0.3981


 13.1095, 0.4927,
0.4697


 45.0546, 0.4475,
0.4409

 7.5040, 0.5169,
0.4831


 62.0271, 0.4360,
0.4324

 3.7793, 0.5243,
0.4757

 82.8023, 0.4261,
0.4248

 1.5509, 0.5367,
0.4633

 107.7647, 0.4175,
0.4181


 0.3241, 0.6139,
0.3861


 137.2985, 0.4100,
0.4122


 0.0000, 0.0000,
0.0000

 171.7883, 0.4035,


0.4070


 211.6184, 0.3977,
0.4023


 20.9802, 0.4760,
0.4602


 20.9802, 0.4760,
0.4602

 20.9744, 0.4761,
0.4602

 22.0918, 0.4651,
0.4601

 23.2826, 0.4519,
0.4561

 24.5673, 0.4361,
0.4476

 25.9522, 0.4184,
0.4351

 27.4427, 0.3996,
0.4196

■ 29.0436, 0.3807,
0.4021

■ 30.7594, 0.3621,
0.3837

■ 32.5941, 0.3444,
0.3649

■ 34.5516, 0.3278,
0.3465

Harmonies

Analogous

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



20.9802, 0.5210, 0.3858



20.9802, 0.4760, 0.4602



20.9802, 0.3925, 0.5211

Triad

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



20.9802, 0.4760, 0.4602



20.9802, 0.1537, 0.3002



20.9802, 0.2996, 0.2030

Complementary

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



20.9802, 0.4760, 0.4602



4.4528, 0.1596, 0.0946

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.



20.9802, 0.2102, 0.1782



20.9802, 0.4760, 0.4602



20.9802, 0.1391, 0.2178

Square

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



20.9802, 0.4760, 0.4602



20.9802, 0.2071, 0.4236



20.9802, 0.1577, 0.1810



20.9802, 0.4117, 0.2515

Rectangle

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



20.9802, 0.4760, 0.4602



20.9802, 0.3277, 0.5307



20.9802, 0.1577, 0.1810



20.9802, 0.2659, 0.1919

Sweetspot

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



20.9813, 0.4760, 0.4602



54.8964, 0.3632, 0.3848



7.9873, 0.5796, 0.2967



12.0480, 0.3706, 0.3923



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.



20.9813, 0.4760, 0.4602



37.2206, 0.4773, 0.4592



30.7580, 0.3818, 0.5350



7.9122, 0.3268, 0.3453



16.3803, 0.4754, 0.4607



0.4158, 0.4513, 0.4799

Inverse Universe

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



4.4528, 0.1596, 0.0946



7.6773, 0.1588, 0.0916



3.0106, 0.1620, 0.0666



7.1567, 0.2987, 0.3121



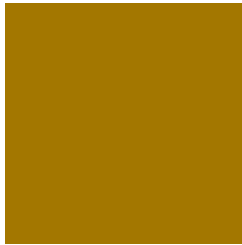
3.5227, 0.1600, 0.0960



0.1478, 0.1793, 0.1653

Previews

White Background



This preview shows how the Yxy color 20.9802, 0.4760, 0.4602 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 20.9802, 0.4760, 0.4602 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 20.9802, 0.4760, 0.4602

Background



This preview shows how black text looks on a background with the Yxy color 20.9802, 0.4760, 0.4602.



This preview shows how white text looks on a background with the Yxy color 20.9802, 0.4760, 0.4602.

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

20.9802, 0.4760, 0.4602

Protanopia

21.0381, 0.4378, 0.4856

Deuteranopia

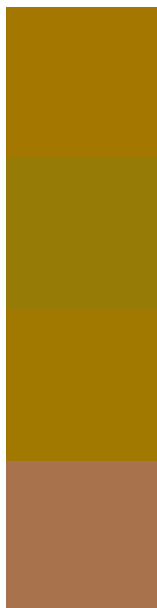
20.9065, 0.4710, 0.4642



Tritanopia

21.1358, 0.3804, 0.3168

Trichromacy



Original Color

20.9802, 0.4760, 0.4602

Protanomaly

20.9125, 0.4515, 0.4764

Deuteranomaly

21.0100, 0.4722, 0.4633

Tritanomaly

20.7719, 0.4335, 0.3872

Monochromacy



Original Color

20.9802, 0.4760, 0.4602

Achromatopsia

18.4475, 0.3127, 0.3290

Achromatomaly

18.8664, 0.3865, 0.4075

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.9802, 0.4760, 0.4602 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(163, 119, 0)` looks like.

```
.text, #text, p{  
    color:rgb(163, 119, 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(163, 119, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 119, 0) }
```

Border

The CSS property to change the border of an element to Yxy 20.9802, 0.4760, 0.4602 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(163, 119, 0) }
```

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

```
.border{ border-color:rgb(163, 119, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 119, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 119, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 119, 0);  
box-shadow:4px 4px 4px 4px rgb(163, 119,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 20.9802, 0.4760, 0.4602 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 119, 0) }
```

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

```
.background{ background-color: rgb(163,  
119, 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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