

Converting Colors

$Y_{xy}(38.7728, 0.4635, 0.4818)$

Have a look what the booklet for
Yxy(38.7728, 0.4635, 0.4818)
contains.

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Color

Yxy(38.7509, 0.4584, 0.4742)

Conversions

Conversions Part 1

| Format | Color |
|-------------|-----------------------------|
| Hex | CAA300 |
| RGB | 202, 163, 0 |
| RGB Percent | 79%, 64%, 0% |
| CMY | 0.2077, 0.3608, 0.9996 |
| CMYK | 0.00, 0.19, 1.00, 0.21 |
| HSL | 48°, 100%, 40% |
| HSV | 48°, 100%, 79% |
| XYZ | 37.4597, 38.7509, 5.5078 |
| YIQ | 156.0790, 75.5670, -42.4250 |

Conversions

Conversions Part 2

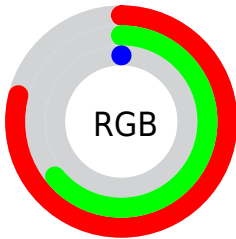
| Format | Color |
|------------------------------------------------------|---------------------------------------------|
| RYB | 48, 202, 0 |
| Decimal | 13280000 |
| CIELab | 68.57, 2.06, 71.84 |
| CIElCh | 69, 71.874, 88.357 |
| Yxy | 38.7509, 0.4584, 0.4742 |
| Android (android.graphics.Color) | 4291470080 (0xFFCAA300) |
| YUV | 156.0790, -76.9469, 40.2727 |
| Hunter-Lab | 62.2502, -1.5236, 38.3292 |

Details

The Yxy color **38.7509, 0.4584, 0.4742** is a dark color, and the websafe version is hex **CC9900**. The color can be described as dark washed orange. A complement of this color would be **5.7258, 0.1550, 0.0779**, and the grayscale version is **33.6150, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.9386, 0.4311, 0.4584**, and **17.4280, 0.4626, 0.4709** is the 20% darker color. If you saturate the color by 10%, you get **38.7456, 0.4584, 0.4742**, and if you desaturate by 10%, it is **40.2123, 0.4509, 0.4735**.

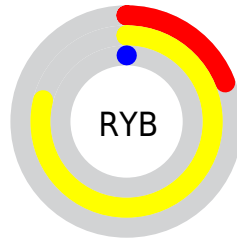
Distribution



Red (79%)

Green (64%)

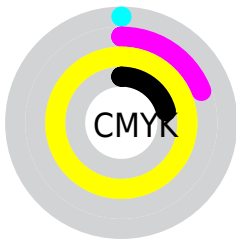
Blue (0%)



Red (19%)

Yellow (79%)

Blue (0%)

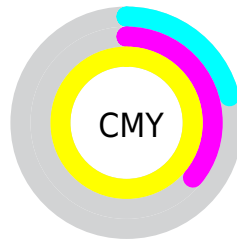


Cyan (0%)

Magenta (19%)

Yellow (100%)

Black (21%)



Cyan (21%)


Magenta (36%)

Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 38.7509, 0.4584, 0.4742 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 38.7509, 0.4584, 0.4742 by changing the saturation by 10% instead.


 38.7509, 0.4584,
0.4742


 38.7509, 0.4584,
0.4742


340.8303, 0.3930,
0.4100


 26.5660, 0.4698,
0.4849


 73.2576, 0.4379,
0.4544


 17.2475, 0.4811,
0.4951


 96.3482, 0.4291,
0.4458


 10.4111, 0.4938,
0.5062


 123.8429, 0.4213,
0.4381

 5.6724, 0.4953,
0.5047

 156.1259, 0.4143,
0.4312

 2.6469, 0.4976,
0.5024

 193.5818, 0.4080,
0.4251

 0.9503, 0.5018,
0.4982

 236.5949, 0.4025,

 0.0000, 0.0000,

0.4195

0.0000

285.5496, 0.3975,
0.4145

38.7509, 0.4584,
0.4742

38.7509, 0.4584,
0.4742

38.7456, 0.4584,
0.4742

40.2123, 0.4509,
0.4735

41.7688, 0.4409,
0.4688

43.4409, 0.4281,
0.4595

45.2387, 0.4130,
0.4461

47.1709, 0.3964,
0.4293

■ 49.2452, 0.3789,
0.4103

■ 51.4684, 0.3614,
0.3900

■ 53.8467, 0.3442,
0.3692

■ 56.3861, 0.3279,
0.3487

Harmonies

Analogous

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



38.7509, 0.5129, 0.4016



38.7509, 0.4584, 0.4742



38.7509, 0.3714, 0.5248

Triad

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



38.7509, 0.4584, 0.4742



38.7509, 0.1498, 0.2791



38.7509, 0.3232, 0.2135

Complementary

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



38.7509, 0.4584, 0.4742



5.7258, 0.1550, 0.0779

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.



38.7509, 0.2280, 0.1834



38.7509, 0.4584, 0.4742



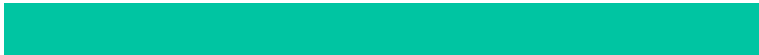
38.7509, 0.1427, 0.2083

Square

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



38.7509, 0.4584, 0.4742



38.7509, 0.1941, 0.3944



38.7509, 0.1682, 0.1800



38.7509, 0.4329, 0.2655

Rectangle

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



38.7509, 0.4584, 0.4742



38.7509, 0.3068, 0.5208



38.7509, 0.1682, 0.1800



38.7509, 0.2881, 0.2007

Sweetspot

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



38.7528, 0.4584, 0.4742



86.9403, 0.3622, 0.3909



12.7187, 0.6086, 0.3127



18.2589, 0.3697, 0.3997



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



38.7528, 0.4584, 0.4742



65.2636, 0.4590, 0.4737



47.9548, 0.3670, 0.5468



12.7138, 0.3270, 0.3476



25.0507, 0.4578, 0.4747



1.3893, 0.4490, 0.4817

Inverse Universe

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



5.7258, 0.1550, 0.0779



9.4409, 0.1545, 0.0761



5.2496, 0.1697, 0.0709



11.1892, 0.2982, 0.3097



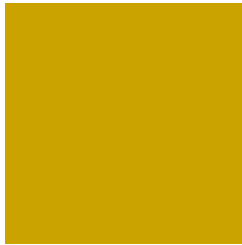
3.7791, 0.1555, 0.0796



0.3021, 0.1653, 0.1150

Previews

White Background



This preview shows how the Yxy color 38.7509, 0.4584, 0.4742 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 38.7509, 0.4584, 0.4742 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 ✓ Pass

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

Yxy 38.7509, 0.4584, 0.4742

Background



This preview shows how black text looks on a background with the Yxy color 38.7509, 0.4584, 0.4742.



This preview shows how white text looks on a background with the Yxy color 38.7509, 0.4584, 0.4742.

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

38.7509, 0.4584, 0.4742

Protanopia

38.8438, 0.4391, 0.4868

Deuteranopia

38.8278, 0.4701, 0.4605



Tritanopia

38.4792, 0.3613, 0.3142

Trichromacy



Original Color

38.7509, 0.4584, 0.4742

Protanomaly

38.7549, 0.4466, 0.4818

Deuteranomaly

38.5734, 0.4660, 0.4653

Tritanomaly

37.7076, 0.4165, 0.3931

Monochromacy



Original Color

38.7509, 0.4584, 0.4742

Achromatopsia

33.2452, 0.3127, 0.3290

Achromatomaly

34.5814, 0.3829, 0.4153

CSS Examples

Text

The CSS property to change the color of the text to Yxy 38.7509, 0.4584, 0.4742 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(202, 163, 0)` looks like.

```
.text, #text, p{  
    color:rgb(202, 163, 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(202, 163, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 163, 0) }
```

Border

The CSS property to change the border of an element to Yxy 38.7509, 0.4584, 0.4742 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(202, 163, 0) }
```

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

```
.border{ border-color:rgb(202, 163, 0) }
```

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

Here you see how a box with a 4 pixel rgb(202, 163, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 163, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 163, 0);  
box-shadow:4px 4px 4px 4px rgb(202, 163,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 38.7509, 0.4584, 0.4742 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 163, 0) }
```

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

```
.background{ background-color: rgb(202,  
163, 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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