

Converting Colors

$Y_{xy}(23.7782, 0.4950, 0.4988)$

Have a look what the booklet for
Yxy(23.7782, 0.4950, 0.4988)
contains.

Yxy(23.8734, 0.4695, 0.4654)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(23.8734, 0.4695, 0.4654)

Conversions

Conversions Part 1

Format	Color
Hex	A98000
RGB	169, 128, 0
RGB Percent	66%, 50%, 0%
CMY	0.3372, 0.4980, 0.9999
CMYK	0.00, 0.24, 1.00, 0.34
HSL	45°, 100%, 33%
HSV	45°, 100%, 66%
XYZ	24.0837, 23.8734, 3.3394
YIQ	125.6670, 65.5240, -31.1160

Conversions

Conversions Part 2

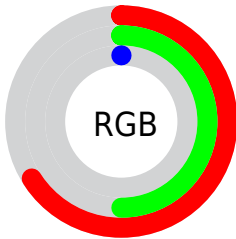
Format	Color
R _Y B	54, 169, 0
Decimal	11108352
CIE Lab	55.96, 6.22, 61.47
CIE LCh	56, 61.781, 84.221
Yxy	23.8734, 0.4695, 0.4654
Android (android.graphics.Color)	4289298432 (0xFFA98000)
YUV	125.6670, -61.9538, 38.0030
Hunter-Lab	48.8604, 2.4785, 30.1501

Details

The Yxy color **23.8734, 0.4695, 0.4654** is a dark color, and the websafe version is hex **CC9933**. A complement of this color would be **4.4546, 0.1579, 0.0884**, and the grayscale version is **20.9450, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.7179, 0.4442, 0.4445**, and **9.0367, 0.4797, 0.4573** is the 20% darker color. If you saturate the color by 10%, you get **23.8723, 0.4695, 0.4654**, and if you desaturate by 10%, it is **25.0067, 0.4598, 0.4649**.

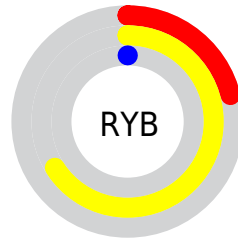
Distribution



Red (66%)

Green (50%)

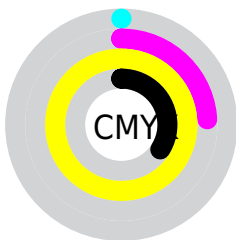
Blue (0%)



Red (21%)

Yellow (66%)

Blue (0%)

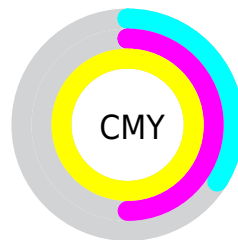


Cyan (0%)

Magenta (24%)

Yellow (100%)

Black (34%)



Cyan (34%)


Magenta (50%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 23.8734, 0.4695, 0.4654 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 23.8734, 0.4695, 0.4654 by changing the saturation by 10% instead.


 23.8734, 0.4695,
0.4654


 23.8734, 0.4695,
0.4654


272.1798, 0.3916,
0.4012


 15.2397, 0.4846,
0.4758


 49.8235, 0.4434,
0.4453


 8.9878, 0.5068,
0.4911


 67.9088, 0.4328,
0.4365


 4.7332, 0.5127,
0.4873

 89.9134, 0.4235,
0.4287

 2.0916, 0.5204,
0.4796

 116.2216, 0.4154,
0.4218


 0.6599, 0.5414,
0.4586

 147.2180, 0.4083,
0.4158


 0.0000, 0.0000,
0.0000

 183.2869, 0.4020,

0.4103


 224.8127, 0.3965,
0.4055


 23.8734, 0.4695,
0.4654


 23.8734, 0.4695,
0.4654

 23.8723, 0.4695,
0.4654

 25.0067, 0.4598,
0.4649

 26.2167, 0.4477,
0.4606

 27.5188, 0.4330,
0.4517

 28.9198, 0.4163,
0.4388

 30.4253, 0.3983,
0.4229

■ 32.0406, 0.3799,
0.4049

■ 33.7702, 0.3618,
0.3858

■ 35.6185, 0.3443,
0.3664

■ 37.5895, 0.3279,
0.3473

Harmonies

Analogous

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



23.8734, 0.5180, 0.3917



23.8734, 0.4695, 0.4654



23.8734, 0.3847, 0.5227

Triad

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



23.8734, 0.4695, 0.4654



23.8734, 0.1522, 0.2922



23.8734, 0.3082, 0.2069

Complementary

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



23.8734, 0.4695, 0.4654



4.4546, 0.1579, 0.0884

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.



23.8734, 0.2167, 0.1802



23.8734, 0.4695, 0.4654



23.8734, 0.1404, 0.2142

Square

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



23.8734, 0.4695, 0.4654



23.8734, 0.2022, 0.4127



23.8734, 0.1616, 0.1806



23.8734, 0.4197, 0.2567

Rectangle

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



23.8734, 0.4695, 0.4654



23.8734, 0.3200, 0.5273



23.8734, 0.1616, 0.1806



23.8734, 0.2740, 0.1952

Sweetspot

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



23.8746, 0.4695, 0.4654



60.2920, 0.3627, 0.3869



8.6064, 0.5914, 0.3032



12.8646, 0.3700, 0.3947



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290

Same Dimension

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



23.8746, 0.4695, 0.4654



42.4051, 0.4706, 0.4646



32.8753, 0.3760, 0.5396



8.4607, 0.3268, 0.3460



17.8753, 0.4689, 0.4659



0.5074, 0.4495, 0.4813

Inverse Universe

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



4.4546, 0.1579, 0.0884



7.6974, 0.1572, 0.0857



3.3640, 0.1650, 0.0683



7.5853, 0.2986, 0.3114



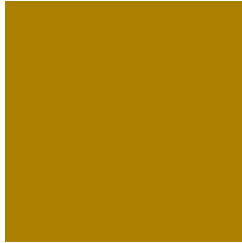
3.3906, 0.1583, 0.0900



0.1594, 0.1757, 0.1526

Previews

White Background



This preview shows how the Yxy color 23.8734, 0.4695, 0.4654 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 23.8734, 0.4695, 0.4654 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 23.8734, 0.4695, 0.4654

Background



This preview shows how black text looks on a background with the Yxy color 23.8734, 0.4695, 0.4654.



This preview shows how white text looks on a background with the Yxy color 23.8734, 0.4695, 0.4654.

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

23.8734, 0.4695, 0.4654

Protanopia

24.0231, 0.4382, 0.4859

Deuteranopia

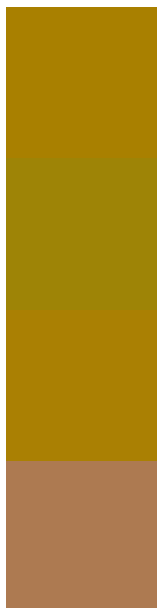
23.9953, 0.4695, 0.4631



Tritanopia

23.8661, 0.3727, 0.3158

Trichromacy



Original Color

23.8734, 0.4695, 0.4654

Protanomaly

23.7848, 0.4499, 0.4781

Deuteranomaly

23.9910, 0.4699, 0.4637

Tritanomaly

23.3974, 0.4278, 0.3898

Monochromacy



Original Color

23.8734, 0.4695, 0.4654

Achromatopsia

20.8637, 0.3127, 0.3290

Achromatomaly

21.5087, 0.3855, 0.4106

CSS Examples

Text

The CSS property to change the color of the text to Yxy 23.8734, 0.4695, 0.4654 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(169, 128, 0)` looks like.

```
.text, #text, p{  
    color:rgb(169, 128, 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(169, 128, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(169, 128, 0) }
```

Border

The CSS property to change the border of an element to Yxy 23.8734, 0.4695, 0.4654 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(169, 128, 0) }
```

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

```
.border{ border-color:rgb(169, 128, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(169, 128, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(169, 128, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(169, 128, 0);  
box-shadow:4px 4px 4px 4px rgb(169, 128,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 23.8734, 0.4695, 0.4654 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(169, 128, 0) }
```

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

```
.background{ background-color: rgb(169,  
128, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor