

# Converting Colors

$Y_{xy}(40.6946, 0.4641, 0.4328)$

Have a look what the booklet for  
Yxy(40.6946, 0.4641, 0.4328)  
contains.

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# Color

**Yxy(40.8000, 0.4634, 0.4334)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF9F3B
RGB	223, 159, 59
RGB Percent	87%, 62%, 23%
CMY	0.1254, 0.3765, 0.7686
CMYK	0.00, 0.29, 0.74, 0.13
HSL	37°, 72%, 55%
HSV	37°, 74%, 87%
XYZ	43.6242, 40.8000, 9.7152
YIQ	166.7360, 70.2440, -17.5320

# Conversions

## Conversions Part 2

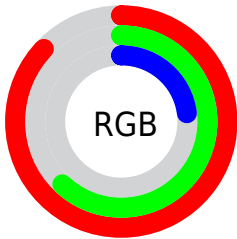
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 223, 59
Decimal	14655291
CIELab	70.04, 14.84, 58.97
CIELCh	70, 60.806, 75.872
Yxy	40.8000, 0.4634, 0.4334
Android (android.graphics.Color)	4292845371 (0xFFDF9F3B)
YUV	166.7360, -53.1138, 49.3435
Hunter-Lab	63.8749, 10.1279, 35.6946

# Details

The Yxy color **40.8000, 0.4634, 0.4334** is a dark color, and the websafe version is hex **CC9933**. The color can be described as middle muted orange. A complement of this color would be **20.4350, 0.1928, 0.1773**, and the grayscale version is **38.7483, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.5230, 0.4157, 0.4298**, and **18.5117, 0.4935, 0.4464** is the 20% darker color. If you saturate the color by 10%, you get **37.7283, 0.4837, 0.4374**, and if you desaturate by 10%, it is **44.1856, 0.4411, 0.4248**.

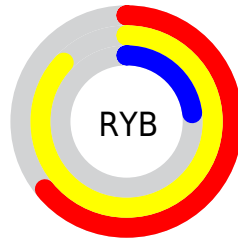
# Distribution



Red (87%)

Green (62%)

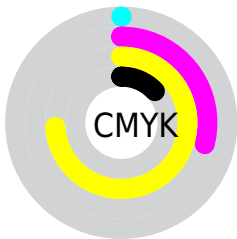
Blue (23%)



Red (64%)

Yellow (87%)

Blue (23%)

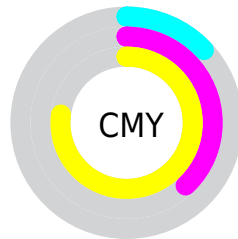


Cyan (0%)

Magenta (29%)

Yellow (74%)

Black (13%)



Cyan (13%)

Magenta (38%)


Yellow (77%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.8000, 0.4634, 0.4334 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 40.8000, 0.4634, 0.4334 by changing the saturation by 10% instead.





 40.8000, 0.4634,  
0.4334


 40.8000, 0.4634,  
0.4334


349.4840, 0.3909,  
0.3881


 28.1628, 0.4789,  
0.4411


 76.3802, 0.4387,  
0.4193


 18.4484, 0.4966,  
0.4486


 100.0920, 0.4288,  
0.4133

 11.2724, 0.5169,  
0.4547


 128.2642, 0.4203,  
0.4079

 6.2504, 0.5413,  
0.4587

 161.2811, 0.4129,  
0.4030

 2.9979, 0.5555,  
0.4445

 199.5271, 0.4064,  
0.3987

 1.1306, 0.5798,  
0.4202

243.3867, 0.4006,

 0.0039, 0.9894,

0.3948

0.0106

293.2442, 0.3955,  
0.3913

0.0000, 0.0000,  
0.0000

40.8000, 0.4634,  
0.4334

40.8000, 0.4634,  
0.4334

37.7283, 0.4837,  
0.4374

44.1856, 0.4411,  
0.4248

34.9463, 0.5008,  
0.4361

47.8942, 0.4179,  
0.4125

33.2876, 0.5103,  
0.4330

51.9416, 0.3951,  
0.3979

56.3405, 0.3733,  
0.3820

61.1026, 0.3531,  
0.3657

■ 66.2387, 0.3347,  
0.3497

■ 71.7593, 0.3181,  
0.3343

■ 77.6743, 0.3034,  
0.3197

■ 83.6843, 0.2930,  
0.3109

# Harmonies

## Analogous

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



40.8000, 0.4874, 0.3707



40.8000, 0.4634, 0.4334



40.8000, 0.4001, 0.4830

# Triad

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



40.8000, 0.4634, 0.4334



40.8000, 0.1853, 0.3262



40.8000, 0.2860, 0.2155

# Complementary

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



40.8000, 0.4634, 0.4334



20.4350, 0.1928, 0.1773

# 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.



40.8000, 0.2153, 0.1986



40.8000, 0.4634, 0.4334



40.8000, 0.1643, 0.2487

# Square

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



40.8000, 0.4634, 0.4334



40.8000, 0.2397, 0.4239



40.8000, 0.1747, 0.2078



40.8000, 0.3766, 0.2545



# Rectangle

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



40.8000, 0.4634, 0.4334



40.8000, 0.3464, 0.4935



40.8000, 0.1747, 0.2078



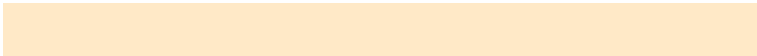
40.8000, 0.2594, 0.2072

# Sweetspot

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



40.8020, 0.4634, 0.4334



83.7131, 0.3504, 0.3635



20.2917, 0.4617, 0.2626



17.5260, 0.3557, 0.3679



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.



40.8020, 0.4634, 0.4334



49.1403, 0.4929, 0.4374



66.3133, 0.3962, 0.4976



15.0842, 0.3277, 0.3433



19.7944, 0.5086, 0.4344



1.5446, 0.4912, 0.4482



# Inverse Universe

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



20.4350, 0.1928, 0.1773



20.5096, 0.1757, 0.1436



9.9709, 0.1807, 0.1011



14.1165, 0.2981, 0.3143



7.3506, 0.1678, 0.1241



0.6800, 0.1764, 0.1549



# Previews

## White Background



This preview shows how the Yxy color 40.8000, 0.4634, 0.4334 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 40.8000, 0.4634, 0.4334 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 40.8000, 0.4634, 0.4334**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.8000, 0.4634, 0.4334.



This preview shows how white text looks on a background with the Yxy color 40.8000, 0.4634, 0.4334.

# 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

40.8000, 0.4634, 0.4334

### Protanopia

41.0704, 0.4195, 0.4609

### Deuteranopia

40.7960, 0.4517, 0.4431



## Tritanopia

40.8560, 0.3852, 0.3165

# Trichromacy



**Original Color**

40.8000, 0.4634, 0.4334

**Protanomaly**

40.6817, 0.4352, 0.4503

**Deuteranomaly**

40.8979, 0.4555, 0.4404

**Tritanomaly**

40.5434, 0.4191, 0.3643

# Monochromacy



**Original Color**

40.8000, 0.4634, 0.4334

**Achromatopsia**

38.6429, 0.3127, 0.3290

**Achromatomaly**

38.6742, 0.3684, 0.3783

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.8000, 0.4634, 0.4334 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(223, 159, 59)` looks like.

```
.text, #text, p{  
    color:rgb(223, 159, 59)  
}
```

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(223, 159, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 159, 59) }
```

## Border

The CSS property to change the border of an element to Yxy 40.8000, 0.4634, 0.4334 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(223, 159, 59) }
```

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

```
.border{ border-color:rgb(223, 159, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 159, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 159, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 159, 59);  
box-shadow:4px 4px 4px 4px rgb(223, 159,  
59) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.8000, 0.4634, 0.4334 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 159, 59) }
```

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

```
.background{ background-color: rgb(223,  
159, 59) }
```

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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