

# Converting Colors

$Y_{xy}(36.6320, 0.4805, 0.4265)$

Have a look what the booklet for  
Yxy(36.6320, 0.4805, 0.4265)  
contains.

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# Color

**Yxy(36.7944, 0.4804, 0.4263)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF9333
RGB	223, 147, 51
RGB Percent	87%, 58%, 20%
CMY	0.1255, 0.4235, 0.7998
CMYK	0.00, 0.34, 0.77, 0.13
HSL	33°, 73%, 54%
HSV	33°, 77%, 87%
XYZ	41.4638, 36.7944, 8.0528
YIQ	158.7800, 76.1120, -13.7440

# Conversions

## Conversions Part 2

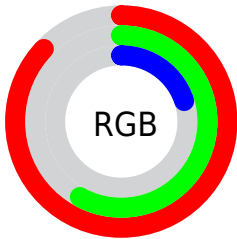
<b>Format</b>	<b>Color</b>
<b>RYB</b>	187, 223, 51
Decimal	14652211
CIELab	67.12, 20.92, 59.36
CIELCh	67, 62.943, 70.584
Yxy	36.7944, 0.4804, 0.4263
Android (android.graphics.Color)	4292842291 (0xFFDF9333)
YUV	158.7800, -53.1355, 56.3209
Hunter-Lab	60.6584, 15.8638, 34.5897

# Details

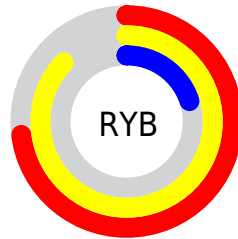
The Yxy color **36.7944, 0.4804, 0.4263** is a dark color, and the websafe version is hex **CC9933**. The color can be described as middle muted orange. A complement of this color would be **21.2209, 0.1917, 0.1826**, and the grayscale version is **34.7894, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.0328, 0.4288, 0.4249**, and **16.1523, 0.5138, 0.4303** is the 20% darker color. If you saturate the color by 10%, you get **33.7093, 0.5022, 0.4273**, and if you desaturate by 10%, it is **40.2402, 0.4562, 0.4203**.

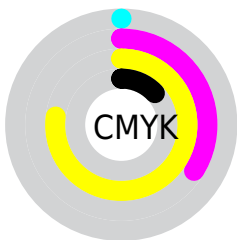
# Distribution



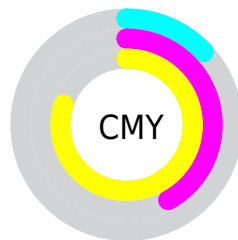
- Red (87%)
- Green (58%)
- Blue (20%)



- Red (73%)
- Yellow (87%)
- Blue (20%)



- Cyan (0%)
- Magenta (34%)
- Yellow (77%)
- Black (13%)



- Cyan (13%)
- Magenta (42%)
- Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.7944, 0.4804, 0.4263 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 36.7944, 0.4804, 0.4263 by changing the saturation by 10% instead.





 36.7944, 0.4804,  
0.4263

 36.7944, 0.4804,  
0.4263


332.4195, 0.3983,  
0.3857

 25.0483, 0.4981,  
0.4322


 70.2565, 0.4522,  
0.4144


 16.1131, 0.5185,  
0.4368


 92.7412, 0.4410,  
0.4091

 9.6042, 0.5445,  
0.4407


 119.5744, 0.4314,  
0.4041

 5.1373, 0.5669,  
0.4331

 151.1403, 0.4230,  
0.3997

 2.3281, 0.5889,  
0.4111

 187.8234, 0.4156,  
0.3957

 0.7885, 0.6284,  
0.3716

 230.0080, 0.4092,

 0.0000, 1.0000,

0.3920

0.0000

278.0786, 0.4034,  
0.3887

0.0000, 0.0000,  
0.0000

36.7944, 0.4804,  
0.4263

36.7944, 0.4804,  
0.4263

33.7093, 0.5022,  
0.4273

40.2402, 0.4562,  
0.4203

30.9569, 0.5204,  
0.4229

44.0592, 0.4311,  
0.4102

30.2159, 0.5253,  
0.4211

48.2696, 0.4062,  
0.3975

52.8862, 0.3827,  
0.3831

57.9229, 0.3610,  
0.3681

■ 63.3926, 0.3414,  
0.3532

■ 69.3077, 0.3239,  
0.3388

■ 75.6797, 0.3085,  
0.3252

■ 82.5199, 0.2949,  
0.3125

# Harmonies

## Analogous

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



36.7944, 0.4977, 0.3596



36.7944, 0.4804, 0.4263



36.7944, 0.4179, 0.4852

# Triad

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



36.7944, 0.4804, 0.4263



36.7944, 0.1848, 0.3434



36.7944, 0.2685, 0.2042

# Complementary

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



36.7944, 0.4804, 0.4263



21.2209, 0.1917, 0.1826

# 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.



36.7944, 0.1995, 0.1908



36.7944, 0.4804, 0.4263



36.7944, 0.1573, 0.2543

# Square

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



36.7944, 0.4804, 0.4263



36.7944, 0.2475, 0.4484



36.7944, 0.1628, 0.2052



36.7944, 0.3633, 0.2413



# Rectangle

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



36.7944, 0.4804, 0.4263



36.7944, 0.3625, 0.5052



36.7944, 0.1628, 0.2052



36.7944, 0.2420, 0.1969

# Sweetspot

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



36.7963, 0.4804, 0.4263



81.3444, 0.3530, 0.3622



19.6290, 0.4577, 0.2528



16.8469, 0.3604, 0.3677



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.



36.7963, 0.4804, 0.4263



43.1776, 0.5146, 0.4249



67.3725, 0.4048, 0.4974



14.9629, 0.3278, 0.3421



17.9953, 0.5233, 0.4227



1.4250, 0.5029, 0.4389



# Inverse Universe

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



21.2209, 0.1917, 0.1826



21.4281, 0.1757, 0.1486



8.6483, 0.1710, 0.0904



14.2353, 0.2981, 0.3156



8.5473, 0.1721, 0.1396



0.7687, 0.1804, 0.1694



# Previews

## White Background



This preview shows how the Yxy color 36.7944, 0.4804, 0.4263 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 36.7944, 0.4804, 0.4263 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 36.7944, 0.4804, 0.4263**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.7944, 0.4804, 0.4263.



This preview shows how white text looks on a background with the Yxy color 36.7944, 0.4804, 0.4263.

# 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

36.7944, 0.4804, 0.4263

### Protanopia

36.9037, 0.4215, 0.4641

### Deuteranopia

36.6352, 0.4567, 0.4470



## Tritanopia

36.9731, 0.4016, 0.3176

# Trichromacy



**Original Color**

36.7944, 0.4804, 0.4263

**Protanomaly**

36.7258, 0.4435, 0.4502

**Deuteranomaly**

36.6753, 0.4660, 0.4390

**Tritanomaly**

36.5729, 0.4370, 0.3617

# Monochromacy



**Original Color**

36.7944, 0.4804, 0.4263

**Achromatopsia**

34.6704, 0.3127, 0.3290

**Achromatomaly**

34.7438, 0.3747, 0.3784

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.7944, 0.4804, 0.4263 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, 147, 51)` looks like.

```
.text, #text, p{  
    color:rgb(223, 147, 51)  
}
```

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, 147, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 147, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 36.7944, 0.4804, 0.4263 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, 147, 51) }
```

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

```
.border{ border-color:rgb(223, 147, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 147, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 147, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 147, 51);  
box-shadow:4px 4px 4px 4px rgb(223, 147,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.7944, 0.4804, 0.4263 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 147, 51) }
```

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

```
.background{ background-color: rgb(223,  
147, 51) }
```

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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