

# Converting Colors

$Y_{xy}(32.9667, 0.5045, 0.4354)$

Have a look what the booklet for  
Yxy(32.9667, 0.5045, 0.4354)  
contains.

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**Color**

**Yxy(32.9667, 0.5045, 0.4354)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DB8907
RGB	219, 137, 7
RGB Percent	86%, 54%, 3%
CMY	0.1412, 0.4627, 0.9726
CMYK	0.00, 0.37, 0.97, 0.14
HSL	37°, 94%, 44%
HSV	37°, 97%, 86%
XYZ	38.1987, 32.9667, 4.5505
YIQ	146.6980, 90.6020, -23.0460

# Conversions

## Conversions Part 2

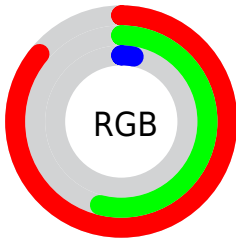
Format	Color
<b>RYB</b>	141, 219, 7
Decimal	14387463
CIELab	64.13, 23.58, 68.76
CIElCh	64, 72.686, 71.072
Yxy	32.9667, 0.5045, 0.4354
Android (android.graphics.Color)	4292577543 (0xFFDB8907)
YUV	146.6980, -68.8711, 63.4089
Hunter-Lab	57.4166, 18.2750, 35.4926

# Details

The Yxy color **32.9667, 0.5045, 0.4354** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **12.3044, 0.1691, 0.1265**, and the grayscale version is **29.3090, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.0296, 0.4529, 0.4373**, and **14.0855, 0.5244, 0.4218** is the 20% darker color. If you saturate the color by 10%, you get **32.1933, 0.5092, 0.4339**, and if you desaturate by 10%, it is **35.5450, 0.4887, 0.4383**.

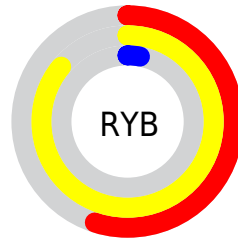
# Distribution



Red (86%)

Green (54%)

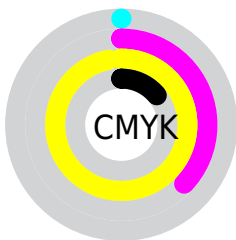
Blue (3%)



Red (55%)

Yellow (86%)

Blue (3%)

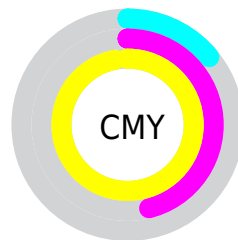


Cyan (0%)

Magenta (37%)

Yellow (97%)

Black (14%)



Cyan (14%)

Magenta (46%)


Yellow (97%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.9667, 0.5045, 0.4354 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 32.9667, 0.5045, 0.4354 by changing the saturation by 10% instead.





 32.9667, 0.5045,  
0.4354


 32.9667, 0.5045,  
0.4354


315.4997, 0.4125,  
0.3947

 22.1009, 0.5227,  
0.4390


 64.3235, 0.4740,  
0.4251


 13.9311, 0.5434,  
0.4403


 85.5834, 0.4615,  
0.4198


 8.0727, 0.5646,  
0.4354


 111.0767, 0.4506,  
0.4148

 4.1415, 0.5824,  
0.4176

 141.1880, 0.4410,  
0.4101

 1.7530, 0.6106,  
0.3894

 176.3015, 0.4325,  
0.4057

 0.4577, 0.6907,  
0.3093

 216.8017, 0.4251,

 0.0000, 0.0000,

0.4017

0.0000

263.0729, 0.4184,  
0.3980

32.9667, 0.5045,  
0.4354

32.9667, 0.5045,  
0.4354

32.1933, 0.5092,  
0.4339

35.5450, 0.4887,  
0.4383

38.3911, 0.4695,  
0.4358

41.5252, 0.4479,  
0.4285

44.9627, 0.4250,  
0.4172

48.7170, 0.4021,  
0.4032

■ 52.8004, 0.3801,  
0.3876

■ 57.2243, 0.3594,  
0.3712

■ 61.9991, 0.3404,  
0.3550

■ 67.1349, 0.3233,  
0.3392

# Harmonies

## Analogous

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



32.9667, 0.5311, 0.3593



32.9667, 0.5045, 0.4354



32.9667, 0.4278, 0.5094

# Triad

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



32.9667, 0.5045, 0.4354



32.9667, 0.1622, 0.3415



32.9667, 0.2611, 0.1863

# Complementary

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



32.9667, 0.5045, 0.4354



12.3044, 0.1691, 0.1265

# 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.



32.9667, 0.1825, 0.1705



32.9667, 0.5045, 0.4354



32.9667, 0.1342, 0.2370

# Square

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



32.9667, 0.5045, 0.4354



32.9667, 0.2315, 0.4741



32.9667, 0.1417, 0.1843



32.9667, 0.3736, 0.2280



# Rectangle

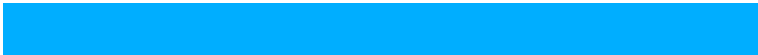
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



32.9667, 0.5045, 0.4354



32.9667, 0.3632, 0.5394



32.9667, 0.1417, 0.1843



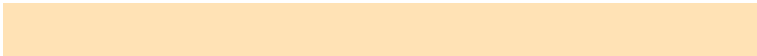
32.9667, 0.2305, 0.1780

# Sweetspot

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



32.9684, 0.5045, 0.4354



79.2072, 0.3643, 0.3753



15.9820, 0.5316, 0.2722



16.3768, 0.3732, 0.3823



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.



32.9684, 0.5045, 0.4354



45.1612, 0.5101, 0.4331



62.6602, 0.4017, 0.5178



14.3741, 0.3276, 0.3433



19.3064, 0.5075, 0.4353



1.4160, 0.4893, 0.4497



# Inverse Universe

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



12.3044, 0.1691, 0.1265



16.0738, 0.1664, 0.1190



5.5163, 0.1548, 0.0640



13.4389, 0.2981, 0.3143



7.0551, 0.1676, 0.1232



0.6211, 0.1767, 0.1560



# Previews

## White Background



This preview shows how the Yxy color 32.9667, 0.5045, 0.4354 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 32.9667, 0.5045, 0.4354 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 32.9667, 0.5045, 0.4354**

## **Background**



This preview shows how black text looks on a background with the Yxy color 32.9667, 0.5045, 0.4354.



This preview shows how white text looks on a background with the Yxy color 32.9667, 0.5045, 0.4354.

# 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

32.9667, 0.5045, 0.4354

### Protanopia

33.0475, 0.4378, 0.4840

### Deuteranopia

33.0501, 0.4716, 0.4637



## Tritanopia

32.8322, 0.4143, 0.3175

# Trichromacy



## Original Color

32.9667, 0.5045, 0.4354

## Protanomaly

32.7304, 0.4633, 0.4658

## Deuteranomaly

32.9322, 0.4838, 0.4531

## Tritanomaly

32.5004, 0.4639, 0.3761

# Monochromacy



## Original Color

32.9667, 0.5045, 0.4354

## Achromatopsia

29.1771, 0.3127, 0.3290

## Achromatomaly

29.3737, 0.3955, 0.3983

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.9667, 0.5045, 0.4354 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(219, 137, 7)` looks like.

```
.text, #text, p{  
    color:rgb(219, 137, 7)  
}
```

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(219, 137, 7) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 137, 7) }
```

## Border

The CSS property to change the border of an element to Yxy 32.9667, 0.5045, 0.4354 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(219, 137, 7) }
```

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

```
.border{ border-color:rgb(219, 137, 7) }
```

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

Here you see how a box with a 4 pixel `rgb(219, 137, 7)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 137, 7); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 137, 7);  
box-shadow:4px 4px 4px 4px rgb(219, 137,  
7) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.9667, 0.5045, 0.4354 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 137, 7) }
```

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

```
.background{ background-color: rgb(219,  
137, 7) }
```

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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