

# Converting Colors

$Y_{xy}(44.0761, 0.5139, 0.4302)$

Have a look what the booklet for  
Yxy(44.0761, 0.5139, 0.4302)  
contains.

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# **Color**

**Yxy(44.0425, 0.5140, 0.4301)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF9900
RGB	255, 153, 0
RGB Percent	100%, 60%, 0%
CMY	0.0000, 0.4000, 1.0000
CMYK	0.00, 0.40, 1.00, 0.00
HSL	36°, 100%, 50%
HSV	36°, 100%, 100%
XYZ	52.6339, 44.0425, 5.7242
YIQ	166.0560, 109.9050, -25.9590

# Conversions

## Conversions Part 2

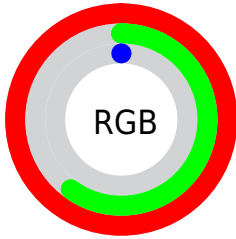
Format	Color
R <sub>Y</sub> B	170, 255, 0
Decimal	16750848
CIE Lab	72.26, 30.18, 77.24
CIE LCh	72, 82.929, 68.661
Yxy	44.0425, 0.5140, 0.4301
Android (android.graphics.Color)	4294940928 (0xFFFF9900)
YUV	166.0560, -81.8656, 78.0039
Hunter-Lab	66.3645, 25.4310, 41.3412

# Details

The Yxy color **44.0425, 0.5140, 0.4301** is a dark color, and the websafe version is hex **FF9900**, and the color name is **vivid gamboge**. The color can be described as middle saturated orange. A complement of this color would be **16.7224, 0.1675, 0.1228**, and the grayscale version is **38.5257, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.9076, 0.4385, 0.4504**, and **20.3837, 0.5326, 0.4153** is the 20% darker color. If you saturate the color by 10%, you get **44.0430, 0.5140, 0.4301**, and if you desaturate by 10%, it is **47.5984, 0.4986, 0.4350**.

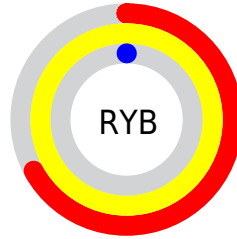
# Distribution



Red (100%)

Green (60%)

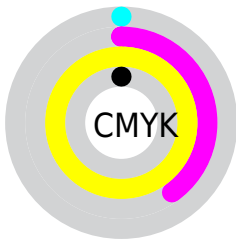
Blue (0%)



Red (67%)

Yellow (100%)

Blue (0%)

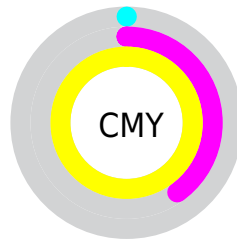


Cyan (0%)

Magenta (40%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (40%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.0425, 0.5140, 0.4301 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 44.0425, 0.5140, 0.4301 by changing the saturation by 10% instead.





 44.0425, 0.5140,  
0.4301


 44.0425, 0.5140,  
0.4301

362.8817, 0.4227,  
0.3962


 30.7039, 0.5311,  
0.4321


 81.2817, 0.4847,  
0.4226


 20.3735, 0.5496,  
0.4314


 105.9511, 0.4725,  
0.4183


 12.6668, 0.5719,  
0.4281


 135.1662, 0.4617,  
0.4141

 7.1995, 0.5880,  
0.4120

 169.3115, 0.4520,  
0.4101

 3.5872, 0.6114,  
0.3886

 208.7713, 0.4435,  
0.4062


 1.4454, 0.6487,  
0.3513

 253.9300, 0.4358,

 0.2499, 0.7970,


0.4027


0.2030

 305.1720, 0.4289,  
0.3993

 0.0000, 0.0000,  
0.0000


 44.0425, 0.5140,  
0.4301

 44.0425, 0.5140,  
0.4301


 44.0430, 0.5140,  
0.4301

 47.5984, 0.4986,  
0.4350

 51.5403, 0.4799,  
0.4350

 55.9043, 0.4583,  
0.4297

 60.7144, 0.4350,  
0.4200

 65.9915, 0.4113,  
0.4070

71.7547, 0.3883,  
0.3919

78.0213, 0.3666,  
0.3759

84.8077, 0.3467,  
0.3598

92.1291, 0.3288,  
0.3440

# Harmonies

## Analogous

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



44.0425, 0.5372, 0.3527



44.0425, 0.5140, 0.4301



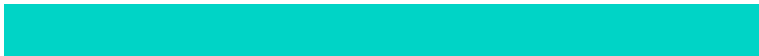
44.0425, 0.4372, 0.5085

# Triad

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



44.0425, 0.5140, 0.4301



44.0425, 0.1617, 0.3523



44.0425, 0.2513, 0.1802

# Complementary

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



44.0425, 0.5140, 0.4301



16.7224, 0.1675, 0.1228

# 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.



44.0425, 0.1741, 0.1663



44.0425, 0.5140, 0.4301



44.0425, 0.1304, 0.2401

# Square

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



44.0425, 0.5140, 0.4301



44.0425, 0.2356, 0.4897



44.0425, 0.1355, 0.1827



44.0425, 0.3655, 0.2208



# Rectangle

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



44.0425, 0.5140, 0.4301



44.0425, 0.3715, 0.5443



44.0425, 0.1355, 0.1827



44.0425, 0.2209, 0.1725

# Sweetspot

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



44.0430, 0.5140, 0.4301



78.0213, 0.3666, 0.3759



22.2193, 0.5427, 0.2763



16.1209, 0.3756, 0.3827



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.



44.0430, 0.5140, 0.4301



88.2604, 0.4015, 0.5194



19.8001, 0.3279, 0.3432



23.3136, 0.5120, 0.4317



2.4839, 0.4985, 0.4424

# Inverse Universe

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



16.7224, 0.1675, 0.1228



7.4331, 0.1526, 0.0614



18.5702, 0.2979, 0.3143



9.0105, 0.1683, 0.1258



1.0841, 0.1745, 0.1482

# Previews

## White Background



This preview shows how the Yxy color 44.0425, 0.5140, 0.4301 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 44.0425, 0.5140, 0.4301 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 44.0425, 0.5140, 0.4301**

## Background



This preview shows how black text looks on a background with the Yxy color 44.0425, 0.5140, 0.4301.



This preview shows how white text looks on a background with the Yxy color 44.0425, 0.5140, 0.4301.



# 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

44.0425, 0.5140, 0.4301

### Protanopia

44.1672, 0.4377, 0.4850

### Deuteranopia

44.0128, 0.4733, 0.4624



## Tritanopia

44.1843, 0.4158, 0.3199

# Trichromacy



## Original Color

44.0425, 0.5140, 0.4301

## Protanomaly

43.6181, 0.4664, 0.4648

## Deuteranomaly

44.0273, 0.4881, 0.4506

## Tritanomaly

43.6557, 0.4706, 0.3787

# Monochromacy



## Original Color

44.0425, 0.5140, 0.4301

## Achromatopsia

38.1326, 0.3127, 0.3290

## Achromatomaly

38.5361, 0.4016, 0.4005

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.0425, 0.5140, 0.4301 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(255, 153, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 153, 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(255, 153, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 153, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 44.0425, 0.5140, 0.4301 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(255, 153, 0) }
```

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

```
.border{ border-color:rgb(255, 153, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 153, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 153, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 153, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 153,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 44.0425, 0.5140, 0.4301 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 153, 0) }
```

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

```
.background{ background-color: rgb(255,  
153, 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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