

# Converting Colors

$Y_{xy}(46.2283, 0.5013, 0.4297)$

Have a look what the booklet for  
Yxy(46.2283, 0.5013, 0.4297)  
contains.

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# **Color**

**Yxy(46.1606, 0.5014, 0.4294)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9F20
RGB	255, 159, 32
RGB Percent	100%, 62%, 13%
CMY	0.0000, 0.3765, 0.8743
CMYK	0.00, 0.38, 0.87, 0.00
HSL	34°, 100%, 56%
HSV	34°, 87%, 100%
XYZ	53.9006, 46.1606, 7.4390
YIQ	173.2260, 97.9830, -19.1450

# Conversions

## Conversions Part 2

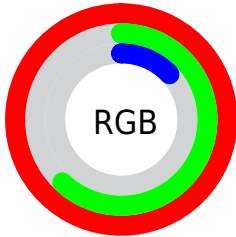
Format	Color
R <sub>Y</sub> B	201, 255, 32
Decimal	16752416
CIE Lab	73.65, 27.44, 72.81
CIE LCh	74, 77.806, 69.349
Yxy	46.1606, 0.5014, 0.4294
Android (android.graphics.Color)	4294942496 (0xFFFF9F20)
YUV	173.2260, -69.6244, 71.7158
Hunter-Lab	67.9416, 22.7130, 41.0674

# Details

The Yxy color **46.1606, 0.5014, 0.4294** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle washed orange. A complement of this color would be **22.9796, 0.1794, 0.1563**, and the grayscale version is **42.2396, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.1258, 0.4269, 0.4454**, and **21.7219, 0.5243, 0.4219** is the 20% darker color. If you saturate the color by 10%, you get **42.4619, 0.5188, 0.4247**, and if you desaturate by 10%, it is **50.3045, 0.4803, 0.4287**.

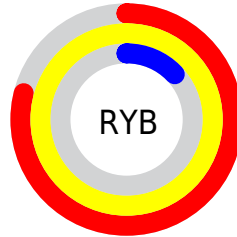
# Distribution



Red (100%)

Green (62%)

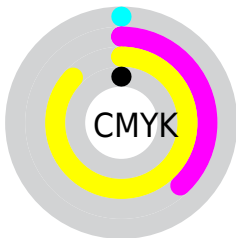
Blue (13%)



Red (79%)

Yellow (100%)

Blue (13%)

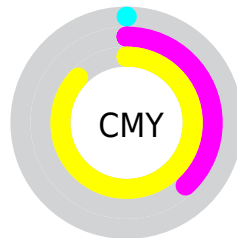


Cyan (0%)

Magenta (38%)

Yellow (87%)

Black (0%)



Cyan (0%)

Magenta (38%)


Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.1606, 0.5014, 0.4294 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 46.1606, 0.5014, 0.4294 by changing the saturation by 10% instead.





 46.1606, 0.5014,  
0.4294


 46.1606, 0.5014,  
0.4294

371.4539, 0.4150,  
0.3933


 32.3726, 0.5182,  
0.4329


 84.4593, 0.4732,  
0.4204


 21.6462, 0.5367,  
0.4344


 109.7388, 0.4616,  
0.4157


 13.5972, 0.5599,  
0.4346


 139.6175, 0.4514,  
0.4113

 7.8410, 0.5772,  
0.4228

 174.4799, 0.4424,  
0.4071

 3.9934, 0.5977,  
0.4023

 214.7103, 0.4343,  
0.4033

 1.6699, 0.6301,  
0.3699

 260.6932, 0.4272,

 0.4040, 0.7263,

0.3997

0.2737

312.8130, 0.4208,  
0.3964

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

46.1606, 0.5014,  
0.4294

46.1606, 0.5014,  
0.4294

42.4619, 0.5188,  
0.4247

50.3045, 0.4803,  
0.4287

41.5726, 0.5229,  
0.4230

54.9184, 0.4566,  
0.4228

60.0291, 0.4318,  
0.4127

65.6585, 0.4072,  
0.3997

71.8267, 0.3837,  
0.3850

78.5524, 0.3619,  
0.3697

85.8529, 0.3421,  
0.3543

93.7447, 0.3245,  
0.3395

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



46.1606, 0.5220, 0.3558



46.1606, 0.5014, 0.4294



46.1606, 0.4303, 0.5002

# Triad

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



46.1606, 0.5014, 0.4294



46.1606, 0.1706, 0.3487



46.1606, 0.2580, 0.1893

# Complementary

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



46.1606, 0.5014, 0.4294



22.9796, 0.1794, 0.1563

# 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.



46.1606, 0.1837, 0.1755



46.1606, 0.5014, 0.4294



46.1606, 0.1405, 0.2456

# Square

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



46.1606, 0.5014, 0.4294



46.1606, 0.2404, 0.4731



46.1606, 0.1458, 0.1913



46.1606, 0.3648, 0.2287



# Rectangle

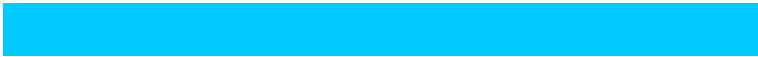
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.1606, 0.5014, 0.4294



46.1606, 0.3685, 0.5295



46.1606, 0.1458, 0.1913



46.1606, 0.2290, 0.1817

# Sweetspot

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



46.1623, 0.5014, 0.4294



79.5603, 0.3589, 0.3675



23.8721, 0.4945, 0.2583



16.5107, 0.3662, 0.3728



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.



46.1623, 0.5014, 0.4294



41.5726, 0.5229, 0.4230



90.1738, 0.4064, 0.5090



19.7041, 0.3280, 0.3425



22.0251, 0.5208, 0.4247



2.3616, 0.5060, 0.4364



# Inverse Universe

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



22.9796, 0.1794, 0.1563



18.3283, 0.1700, 0.1320



8.8584, 0.1593, 0.0715



18.6640, 0.2979, 0.3151



9.8599, 0.1709, 0.1350



1.1720, 0.1770, 0.1570



# Previews

## White Background



This preview shows how the Yxy color 46.1606, 0.5014, 0.4294 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 46.1606, 0.5014, 0.4294 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 46.1606, 0.5014, 0.4294**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.1606, 0.5014, 0.4294.



This preview shows how white text looks on a background with the Yxy color 46.1606, 0.5014, 0.4294.

# 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

46.1606, 0.5014, 0.4294

### Protanopia

46.4332, 0.4328, 0.4787

### Deuteranopia

46.2210, 0.4692, 0.4593



## Tritanopia

45.9664, 0.4073, 0.3188

# Trichromacy



## Original Color

46.1606, 0.5014, 0.4294

## Protanomaly

46.0875, 0.4583, 0.4603

## Deuteranomaly

45.8892, 0.4811, 0.4482

## Tritanomaly

45.5861, 0.4532, 0.3700

# Monochromacy



## Original Color

46.1606, 0.5014, 0.4294

## Achromatopsia

41.7885, 0.3127, 0.3290

## Achromatomaly

42.1069, 0.3882, 0.3878

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.1606, 0.5014, 0.4294 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, 159, 32)` looks like.

```
.text, #text, p{  
    color:rgb(255, 159, 32)  
}
```

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, 159, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 159, 32) }
```

## Border

The CSS property to change the border of an element to Yxy 46.1606, 0.5014, 0.4294 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, 159, 32) }
```

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

```
.border{ border-color:rgb(255, 159, 32) }
```

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

Here you see how a box with a 4 pixel rgb(255, 159, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 159, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 159, 32);  
box-shadow:4px 4px 4px 4px rgb(255, 159,  
32) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.1606, 0.5014, 0.4294 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 159, 32) }
```

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

```
.background{ background-color: rgb(255,  
159, 32) }
```

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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