

# Converting Colors

$Y_{xy}(40.1172, 0.5285, 0.4186)$

Have a look what the booklet for  
Yxy(40.1172, 0.5285, 0.4186)  
contains.

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# Color

**Yxy(40.0162, 0.5290, 0.4182)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8C00
RGB	255, 140, 0
RGB Percent	100%, 55%, 0%
CMY	0.0000, 0.4510, 1.0000
CMYK	0.00, 0.45, 1.00, 0.00
HSL	33°, 100%, 50%
HSV	33°, 100%, 100%
XYZ	50.6183, 40.0162, 5.0523
YIQ	158.4250, 113.4800, -19.1600

# Conversions

## Conversions Part 2

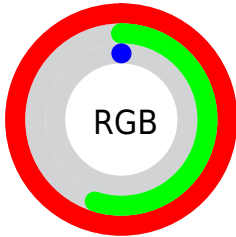
Format	Color
<a href="#">RYB</a>	209, 255, 0
Decimal	16747520
CIELab	69.48, 36.83, 75.51
CIELCh	69, 84.016, 63.999
Yxy	40.0162, 0.5290, 0.4182
Android (android.graphics.Color)	4294937600 (0xFFFF8C00)
YUV	158.4250, -78.1035, 84.6963
Hunter-Lab	63.2584, 32.1306, 39.5455

# Details

The Yxy color **40.0162, 0.5290, 0.4182** is a dark color, and the websafe version is hex **FF9900**, and the color name is **darkorange**. The color can be described as dark saturated orange. A complement of this color would be **19.4798, 0.1718, 0.1384**, and the grayscale version is **34.7206, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.3516, 0.4504, 0.4399**, and **18.0558, 0.5526, 0.3995** is the 20% darker color. If you saturate the color by 10%, you get **40.0183, 0.5290, 0.4182**, and if you desaturate by 10%, it is **43.6290, 0.5114, 0.4244**.

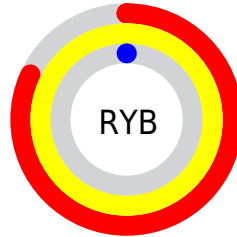
# Distribution



Red (100%)

Green (55%)

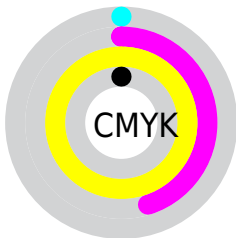
Blue (0%)



Red (82%)

Yellow (100%)

Blue (0%)

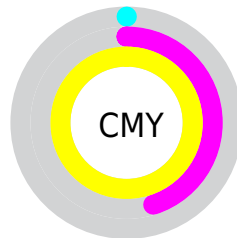


Cyan (0%)

Magenta (45%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (45%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.0162, 0.5290, 0.4182 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 40.0162, 0.5290, 0.4182 by changing the saturation by 10% instead.





 40.0162, 0.5290,  
0.4182


 40.0162, 0.5290,  
0.4182


346.1918, 0.4288,  
0.3912

 27.5512, 0.5482,  
0.4181


 75.1882, 0.4965,  
0.4135


 17.9876, 0.5695,  
0.4147


 98.6639, 0.4830,  
0.4102

 10.9411, 0.5936,  
0.4064


 126.5787, 0.4711,  
0.4067

 6.0272, 0.6144,  
0.3856

 159.3169, 0.4606,  
0.4033

 2.8616, 0.6449,  
0.3551

 197.2629, 0.4512,  
0.4000


 1.0599, 0.6935,  
0.3065

 240.8012, 0.4429,

 0.0000, 1.0000,

0.3969


0.0000


 290.3160, 0.4355,  
0.3940

 0.0000, 0.0000,  
0.0000


 40.0162, 0.5290,  
0.4182


 40.0162, 0.5290,  
0.4182


 40.0183, 0.5290,  
0.4182

 43.6290, 0.5114,  
0.4244

 47.6954, 0.4902,  
0.4256

 52.2564, 0.4660,  
0.4213

 57.3389, 0.4404,  
0.4127

 62.9670, 0.4149,  
0.4008

69.1622, 0.3904,  
0.3869

75.9449, 0.3678,  
0.3721

83.3337, 0.3472,  
0.3572

91.3464, 0.3289,  
0.3428

# Harmonies

## Analogous

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



40.0162, 0.5431, 0.3399



40.0162, 0.5290, 0.4182



40.0162, 0.4545, 0.5017

# Triad

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



40.0162, 0.5290, 0.4182



40.0162, 0.1646, 0.3756



40.0162, 0.2333, 0.1712

# Complementary

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



40.0162, 0.5290, 0.4182



19.4798, 0.1718, 0.1384

# 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.



40.0162, 0.1607, 0.1613



40.0162, 0.5290, 0.4182



40.0162, 0.1266, 0.2497

# Square

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



40.0162, 0.5290, 0.4182



40.0162, 0.2466, 0.5162



40.0162, 0.1269, 0.1832



40.0162, 0.3472, 0.2088



# Rectangle

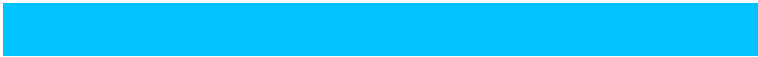
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



40.0162, 0.5290, 0.4182



40.0162, 0.3879, 0.5466



40.0162, 0.1269, 0.1832



40.0162, 0.2043, 0.1647

# Sweetspot

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



40.0183, 0.5290, 0.4182



75.9449, 0.3678, 0.3721



22.5919, 0.5145, 0.2608



15.6276, 0.3771, 0.3784



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.



40.0183, 0.5290, 0.4182



91.2034, 0.4134, 0.5099



19.6404, 0.3280, 0.3421



21.2131, 0.5267, 0.4200



2.2838, 0.5111, 0.4324

# Inverse Universe

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



19.4798, 0.1718, 0.1384



7.2749, 0.1507, 0.0604



18.7267, 0.2979, 0.3156



10.4673, 0.1726, 0.1414



1.2338, 0.1786, 0.1631

# Previews

## White Background



This preview shows how the Yxy color 40.0162, 0.5290, 0.4182 looks on a white background.

## Color Contrast Check

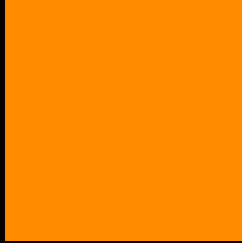
Large Text (above 18pt) WCAG AA × Fail

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 40.0162, 0.5290, 0.4182 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 40.0162, 0.5290, 0.4182**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.0162, 0.5290, 0.4182.



This preview shows how white text looks on a background with the Yxy color 40.0162, 0.5290, 0.4182.



# 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

40.0162, 0.5290, 0.4182

### Protanopia

40.3864, 0.4368, 0.4842

### Deuteranopia

39.9368, 0.4726, 0.4630



## Tritanopia

39.9881, 0.4363, 0.3201

# Trichromacy



## Original Color

40.0162, 0.5290, 0.4182

## Protanomaly

39.6177, 0.4719, 0.4598

## Deuteranomaly

39.6055, 0.4949, 0.4452

## Tritanomaly

39.6065, 0.4892, 0.3734

# Monochromacy



## Original Color

40.0162, 0.5290, 0.4182

## Achromatopsia

34.1914, 0.3127, 0.3290

## Achromatomaly

34.4103, 0.4074, 0.3959

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.0162, 0.5290, 0.4182 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, 140, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 140, 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, 140, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 140, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 40.0162, 0.5290, 0.4182 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, 140, 0) }
```

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

```
.border{ border-color:rgb(255, 140, 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, 140, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 140, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 140, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 140,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 40.0162, 0.5290, 0.4182 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 140, 0) }
```

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

```
.background{ background-color: rgb(255,  
140, 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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