

# Converting Colors

$Y_{xy}(41.4730, 0.5230, 0.4224)$

Have a look what the booklet for  
Yxy(41.4730, 0.5230, 0.4224)  
contains.

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# Color

**Yxy(41.5152, 0.5229, 0.4225)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF9102
RGB	255, 145, 2
RGB Percent	100%, 57%, 1%
CMY	0.0000, 0.4314, 0.9918
CMYK	0.00, 0.43, 0.99, 0.00
HSL	34°, 100%, 50%
HSV	34°, 99%, 100%
XYZ	51.3806, 41.5152, 5.3650
YIQ	161.5880, 111.4630, -21.1530

# Conversions

## Conversions Part 2

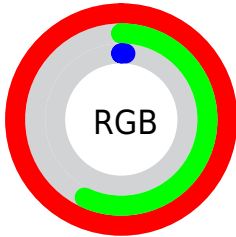
Format	Color
R <sub>Y</sub> B	197, 255, 2
Decimal	16748802
CIE Lab	70.54, 34.31, 75.88
CIE LCh	71, 83.274, 65.668
Yxy	41.5152, 0.5229, 0.4225
Android (android.graphics.Color)	4294938882 (0xFFFF9102)
YUV	161.5880, -78.6769, 81.9223
Hunter-Lab	64.4323, 29.5857, 40.1657

# Details

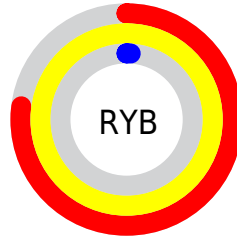
The Yxy color **41.5152, 0.5229, 0.4225** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **18.8436, 0.1709, 0.1349**, and the grayscale version is **36.2686, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.0904, 0.4451, 0.4444**, and **18.9051, 0.5449, 0.4056** is the 20% darker color. If you saturate the color by 10%, you get **41.2327, 0.5242, 0.4220**, and if you desaturate by 10%, it is **45.1490, 0.5058, 0.4281**.

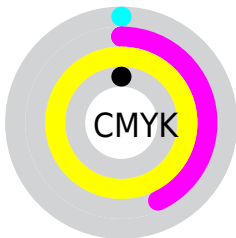
# Distribution



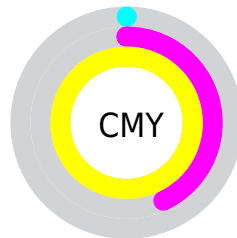
- Red (100%)
- Green (57%)
- Blue (1%)



- Red (77%)
- Yellow (100%)
- Blue (1%)



- Cyan (0%)
- Magenta (43%)
- Yellow (99%)
- Black (0%)




- Cyan (0%)
- Magenta (43%)
- Yellow (99%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.5152, 0.5229, 0.4225 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 41.5152, 0.5229, 0.4225 by changing the saturation by 10% instead.





 41.5152, 0.5229,  
0.4225


 41.5152, 0.5229,  
0.4225


352.4693, 0.4262,  
0.3928


 28.7219, 0.5413,  
0.4233


 77.4654, 0.4916,  
0.4167

 18.8705, 0.5615,  
0.4209


 101.3910, 0.4786,  
0.4130

 11.5768, 0.5853,  
0.4147


 129.7962, 0.4671,  
0.4093

 6.4562, 0.6042,  
0.3958

 163.0653, 0.4570,  
0.4056

 3.1244, 0.6319,  
0.3681

 201.5828, 0.4479,  
0.4021

 1.1970, 0.6762,  
0.3238

 245.7330, 0.4399,


 0.0593, 0.9379,


0.3988

0.0621

 295.9004, 0.4327,  
0.3957


 0.0000, 0.0000,  
0.0000


 41.5152, 0.5229,  
0.4225


 41.5152, 0.5229,  
0.4225


 41.2327, 0.5242,  
0.4220

 45.1490, 0.5058,  
0.4281

 49.2218, 0.4851,  
0.4284

 53.7680, 0.4615,  
0.4234

 58.8134, 0.4366,  
0.4141

 64.3806, 0.4117,  
0.4016

70.4904, 0.3878,  
0.3873

77.1618, 0.3656,  
0.3721

84.4126, 0.3455,  
0.3568

92.2597, 0.3274,  
0.3420

# Harmonies

## Analogous

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



41.5152, 0.5401, 0.3447



41.5152, 0.5229, 0.4225



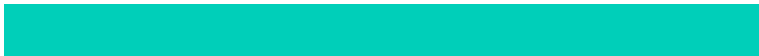
41.5152, 0.4479, 0.5039

# Triad

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



41.5152, 0.5229, 0.4225



41.5152, 0.1641, 0.3668



41.5152, 0.2401, 0.1750

# Complementary

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



41.5152, 0.5229, 0.4225



18.8436, 0.1709, 0.1349

# 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.



41.5152, 0.1660, 0.1636



41.5152, 0.5229, 0.4225



41.5152, 0.1285, 0.2465

# Square

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



41.5152, 0.5229, 0.4225



41.5152, 0.2429, 0.5057



41.5152, 0.1306, 0.1835



41.5152, 0.3538, 0.2136



# Rectangle

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



41.5152, 0.5229, 0.4225



41.5152, 0.3819, 0.5452



41.5152, 0.1306, 0.1835



41.5152, 0.2107, 0.1680

# Sweetspot

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



41.5149, 0.5229, 0.4225



76.5915, 0.3674, 0.3733



22.5642, 0.5195, 0.2640



15.7811, 0.3766, 0.3798



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.



41.5149, 0.5229, 0.4225



41.2327, 0.5242, 0.4220



90.4647, 0.4104, 0.5120



19.6904, 0.3280, 0.3424



21.8476, 0.5220, 0.4237



2.3447, 0.5071, 0.4356



# Inverse Universe

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



18.8436, 0.1709, 0.1349



18.5700, 0.1704, 0.1334



7.3649, 0.1513, 0.0610



18.6775, 0.2979, 0.3152



9.9875, 0.1712, 0.1364



1.1850, 0.1773, 0.1583



# Previews

## White Background



This preview shows how the Yxy color 41.5152, 0.5229, 0.4225 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

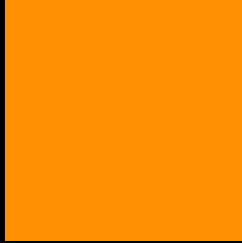
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.5152, 0.5229, 0.4225 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 41.5152, 0.5229, 0.4225**

## Background



This preview shows how black text looks on a background with the Yxy color 41.5152, 0.5229, 0.4225.



This preview shows how white text looks on a background with the Yxy color 41.5152, 0.5229, 0.4225.

# 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



# Trichromacy



## Original Color

41.5152, 0.5229, 0.4225

## Protanomaly

40.9752, 0.4703, 0.4612

## Tritanomaly

41.1179, 0.4814, 0.3750

# Monochromacy



## Original Color

41.5152, 0.5229, 0.4225

## Achromatopsia

36.1307, 0.3127, 0.3290

## Achromatomaly

36.5122, 0.4045, 0.3975

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.5152, 0.5229, 0.4225 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, 145, 2)` looks like.

```
.text, #text, p{  
    color:rgb(255, 145, 2)  
}
```

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, 145, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 145, 2) }
```

## Border

The CSS property to change the border of an element to Yxy 41.5152, 0.5229, 0.4225 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, 145, 2) }
```

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

```
.border{ border-color:rgb(255, 145, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 145, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 145, 2); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 145, 2);  
box-shadow:4px 4px 4px 4px rgb(255, 145,  
2) }
```

# Background

The CSS property to change the background color of an element to Yxy 41.5152, 0.5229, 0.4225 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 145, 2) }
```

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

```
.background{ background-color: rgb(255,  
145, 2) }
```

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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