

# Converting Colors

$Y_{xy}(38.6385, 0.5435, 0.4377)$

Have a look what the booklet for  
Yxy(38.6385, 0.5435, 0.4377)  
contains.

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# Color

**Yxy(39.0802, 0.5256, 0.4209)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FA8C00
RGB	250, 140, 0
RGB Percent	98%, 55%, 0%
CMY	0.0196, 0.4509, 1.0000
CMYK	0.00, 0.44, 1.00, 0.02
HSL	34°, 100%, 49%
HSV	34°, 100%, 98%
XYZ	48.8015, 39.0802, 4.9674
YIQ	156.9300, 110.5000, -20.2200

# Conversions

## Conversions Part 2

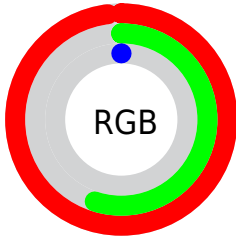
Format	Color
<a href="#">RYB</a>	<a href="#">196, 250, 0</a>
Decimal	<a href="#">16419840</a>
CIELab	<a href="#">68.81, 34.82, 74.76</a>
CIELCh	<a href="#">69, 82.470, 65.026</a>
Yxy	<a href="#">39.0802, 0.5256, 0.4209</a>
Android (android.graphics.Color)	<a href="#">4294609920 (0xFFFA8C00)</a>
YUV	<a href="#">156.9300, -77.3665, 81.6224</a>
Hunter-Lab	<a href="#">62.5142, 29.9458, 39.0487</a>

# Details

The Yxy color **39.0802, 0.5256, 0.4209** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **18.0513, 0.1709, 0.1351**, and the grayscale version is **34.0033, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.3516, 0.4504, 0.4399**, and **17.5839, 0.5471, 0.4038** is the 20% darker color. If you saturate the color by 10%, you get **39.0826, 0.5256, 0.4209**, and if you desaturate by 10%, it is **42.5297, 0.5084, 0.4268**.

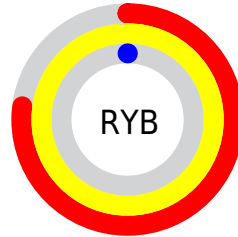
# Distribution



Red (98%)

Green (55%)

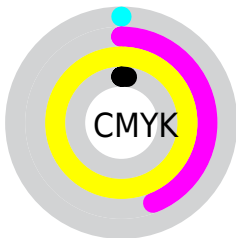
Blue (0%)



Red (77%)

Yellow (98%)

Blue (0%)

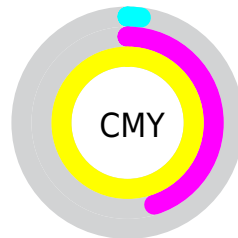


Cyan (0%)

Magenta (44%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (45%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.0802, 0.5256, 0.4209 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 39.0802, 0.5256, 0.4209 by changing the saturation by 10% instead.




 39.0802, 0.5256,  
0.4209


 39.0802, 0.5256,  
0.4209

342.2313, 0.4266,  
0.3919


 26.8221, 0.5446,  
0.4213


 73.7608, 0.4934,  
0.4154


 17.4397, 0.5658,  
0.4185


 96.9522, 0.4800,  
0.4119

 10.5485, 0.5894,  
0.4106


 124.5567, 0.4683,  
0.4082

 5.7641, 0.6098,  
0.3902

 156.9588, 0.4579,  
0.4046

 2.7022, 0.6400,  
0.3600

 194.5430, 0.4487,  
0.4011

 0.9783, 0.6889,  
0.3111

 237.6935, 0.4405,

 0.0000, 1.0000,

0.3979


0.0000

 286.7948, 0.4332,  
0.3948


 0.0000, 0.0000,  
0.0000


 39.0802, 0.5256,  
0.4209

 39.0802, 0.5256,  
0.4209


 39.0826, 0.5256,  
0.4209

 42.5297, 0.5084,  
0.4268

 46.3971, 0.4877,  
0.4276

 50.7210, 0.4641,  
0.4231

 55.5266, 0.4391,  
0.4142

 60.8361, 0.4140,  
0.4020

■ 66.6693, 0.3899,  
0.3879

■ 73.0450, 0.3674,  
0.3729

■ 79.9804, 0.3471,  
0.3578

■ 87.4920, 0.3288,  
0.3430

# Harmonies

## Analogous

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



39.0802, 0.5418, 0.3428



39.0802, 0.5256, 0.4209



39.0802, 0.4506, 0.5033

# Triad

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



39.0802, 0.5256, 0.4209



39.0802, 0.1640, 0.3702



39.0802, 0.2373, 0.1733

# Complementary

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



39.0802, 0.5256, 0.4209



18.0513, 0.1709, 0.1351

# 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.



39.0802, 0.1637, 0.1624



39.0802, 0.5256, 0.4209



39.0802, 0.1275, 0.2475

# Square

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



39.0802, 0.5256, 0.4209



39.0802, 0.2441, 0.5102



39.0802, 0.1289, 0.1831



39.0802, 0.3513, 0.2115



# Rectangle

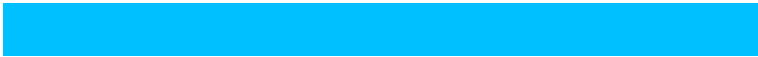
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



39.0802, 0.5256, 0.4209



39.0802, 0.3843, 0.5462



39.0802, 0.1289, 0.1831



39.0802, 0.2080, 0.1665

# Sweetspot

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



39.0826, 0.5256, 0.4209



76.3889, 0.3675, 0.3730



21.5046, 0.5214, 0.2646



15.7330, 0.3767, 0.3793



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.



39.0826, 0.5256, 0.4209



40.8483, 0.5257, 0.4208



86.4601, 0.4105, 0.5123



18.8379, 0.3280, 0.3423



21.0228, 0.5234, 0.4226



2.1583, 0.5075, 0.4352



# Inverse Universe

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



18.0513, 0.1709, 0.1351



18.8501, 0.1708, 0.1349



6.9838, 0.1511, 0.0606



17.8997, 0.2979, 0.3154



9.8506, 0.1717, 0.1381



1.1195, 0.1781, 0.1610



# Previews

## White Background



This preview shows how the Yxy color 39.0802, 0.5256, 0.4209 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 39.0802, 0.5256, 0.4209 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 39.0802, 0.5256, 0.4209**

## Background



This preview shows how black text looks on a background with the Yxy color 39.0802, 0.5256, 0.4209.



This preview shows how white text looks on a background with the Yxy color 39.0802, 0.5256, 0.4209.

# 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

39.0802, 0.5256, 0.4209

### Protanopia

39.3736, 0.4372, 0.4842

### Tritanopia

39.0893, 0.4413, 0.3201

# Trichromacy



## Original Color

39.0802, 0.5256, 0.4209

## Protanomaly

38.4798, 0.4716, 0.4600

## Tritanomaly

38.6374, 0.4910, 0.3735

# Monochromacy



## Original Color

39.0802, 0.5256, 0.4209

## Achromatopsia

33.7164, 0.3127, 0.3290

## Achromatomaly

34.1297, 0.4063, 0.3978

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.0802, 0.5256, 0.4209 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(250, 140, 0)` looks like.

```
.text, #text, p{  
  color:rgb(250, 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(250, 140, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 140, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 39.0802, 0.5256, 0.4209 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(250, 140, 0) }
```

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

```
.border{ border-color:rgb(250, 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(250, 140, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 140, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 140, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 140,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 39.0802, 0.5256, 0.4209 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 140, 0) }
```

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

```
.background{ background-color: rgb(250,  
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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