

# Converting Colors

$Y_{xy}(36.5705, 0.5436, 0.4066)$

Have a look what the booklet for  
Yxy(36.5705, 0.5436, 0.4066)  
contains.

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# Color

**Yxy(36.6983, 0.5430, 0.4070)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF8000
RGB	255, 128, 0
RGB Percent	100%, 50%, 0%
CMY	0.0000, 0.4980, 0.9992
CMYK	0.00, 0.50, 1.00, 0.00
HSL	30°, 100%, 50%
HSV	30°, 100%, 100%
XYZ	48.9611, 36.6983, 4.5084
YIQ	151.3810, 116.7800, -12.8840

# Conversions

## Conversions Part 2

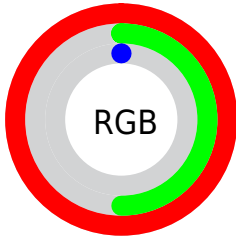
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	253, 255, 0
Decimal	16744448
CIE Lab	67.05, 42.84, 74.00
CIE LCh	67, 85.504, 59.933
Yxy	36.6983, 0.5430, 0.4070
Android (android.graphics.Color)	4294934528 (0xFFFF8000)
YUV	151.3810, -74.6308, 90.8739
Hunter-Lab	60.5791, 38.2534, 37.9929

# Details

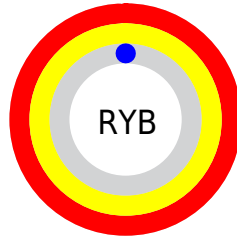
The Yxy color **36.6983, 0.5430, 0.4070** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **22.4507, 0.1762, 0.1541**, and the grayscale version is **31.4189, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.1969, 0.4615, 0.4305**, and **16.1160, 0.5700, 0.3856** is the 20% darker color. If you saturate the color by 10%, you get **36.6734, 0.5431, 0.4069**, and if you desaturate by 10%, it is **40.2985, 0.5234, 0.4143**.

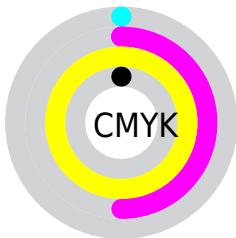
# Distribution



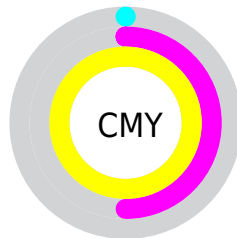
- Red (100%)
- Green (50%)
- Blue (0%)



- Red (99%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (50%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (50%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.6983, 0.5430, 0.4070 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 36.6983, 0.5430, 0.4070 by changing the saturation by 10% instead.




 36.6983, 0.5430,  
0.4070


 36.6983, 0.5430,  
0.4070


332.0025, 0.4344,  
0.3866

 24.9740, 0.5642,  
0.4049


 70.1085, 0.5074,  
0.4050


 16.0577, 0.5885,  
0.3991


 92.5632, 0.4927,  
0.4026

 9.5650, 0.6140,  
0.3860


 119.3635, 0.4798,  
0.3999

 5.1115, 0.6393,  
0.3607

 150.8938, 0.4685,  
0.3971

 2.3128, 0.6765,  
0.3235

 187.5384, 0.4584,  
0.3943


 0.7805, 0.7369,  
0.2631

 229.6818, 0.4495,


 0.0000, 1.0000,

0.3916

0.0000


 277.7084, 0.4416,  
0.3890


 0.0000, 0.0000,  
0.0000


 36.6983, 0.5430,  
0.4070

 36.6983, 0.5430,  
0.4070


 36.6734, 0.5431,  
0.4069

 40.2985, 0.5234,  
0.4143

 44.4219, 0.4998,  
0.4165

 49.1121, 0.4732,  
0.4133

 54.4001, 0.4454,  
0.4056

 60.3132, 0.4181,  
0.3948

66.8764, 0.3922,  
0.3820

74.1131, 0.3686,  
0.3684

82.0450, 0.3475,  
0.3548

90.6928, 0.3289,  
0.3415

# Harmonies

## Analogous

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



36.6983, 0.5483, 0.3281



36.6983, 0.5430, 0.4070



36.6983, 0.4703, 0.4944

# Triad

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



36.6983, 0.5430, 0.4070



36.6983, 0.1673, 0.3991



36.6983, 0.2171, 0.1629

# Complementary

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



36.6983, 0.5430, 0.4070



22.4507, 0.1762, 0.1541

# 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.



36.6983, 0.1487, 0.1566



36.6983, 0.5430, 0.4070



36.6983, 0.1230, 0.2594

# Square

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



36.6983, 0.5430, 0.4070



36.6983, 0.2566, 0.5407



36.6983, 0.1190, 0.1836



36.6983, 0.3302, 0.1977



# Rectangle

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



36.6983, 0.5430, 0.4070



36.6983, 0.4029, 0.5469



36.6983, 0.1190, 0.1836



36.6983, 0.1894, 0.1576

# Sweetspot

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



36.6997, 0.5430, 0.4070



74.0538, 0.3688, 0.3686



22.8123, 0.4999, 0.2528



15.1801, 0.3785, 0.3743



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.



36.6997, 0.5430, 0.4070



36.6734, 0.5431, 0.4069



92.7804, 0.4193, 0.5052



19.4926, 0.3282, 0.3409



19.4614, 0.5406, 0.4090



2.1134, 0.5231, 0.4229



# Inverse Universe

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



22.4507, 0.1762, 0.1541



22.4235, 0.1761, 0.1539



7.2256, 0.1500, 0.0600



18.8735, 0.2979, 0.3168



12.0151, 0.1769, 0.1568



1.3882, 0.1826, 0.1775



# Previews

## White Background



This preview shows how the Yxy color 36.6983, 0.5430, 0.4070 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 36.6983, 0.5430, 0.4070 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 36.6983, 0.5430, 0.4070**

## Background



This preview shows how black text looks on a background with the Yxy color 36.6983, 0.5430, 0.4070.



This preview shows how white text looks on a background with the Yxy color 36.6983, 0.5430, 0.4070.

# 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

36.6983, 0.5430, 0.4070

### Protanopia

36.7992, 0.4361, 0.4836

### Deuteranopia

36.7081, 0.4725, 0.4631



## Tritanopia

36.7640, 0.4574, 0.3224

# Trichromacy



## Original Color

36.6983, 0.5430, 0.4070

## Protanomaly

35.8666, 0.4779, 0.4543

## Deuteranomaly

36.0981, 0.4997, 0.4414

## Tritanomaly

36.2845, 0.5068, 0.3680

# Monochromacy



## Original Color

36.6983, 0.5430, 0.4070

## Achromatopsia

30.9469, 0.3127, 0.3290

## Achromatomaly

31.3083, 0.4136, 0.3933

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.6983, 0.5430, 0.4070 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, 128, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 128, 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, 128, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 128, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 36.6983, 0.5430, 0.4070 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, 128, 0) }
```

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

```
.border{ border-color:rgb(255, 128, 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, 128, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 128, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 128, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 128,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.6983, 0.5430, 0.4070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 128, 0) }
```

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

```
.background{ background-color: rgb(255,  
128, 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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