

# Converting Colors

$Y_{xy}(37.4785, 0.5364, 0.4066)$

Have a look what the booklet for  
Yxy(37.4785, 0.5364, 0.4066)  
contains.

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# **Color**

**Yxy(37.5396, 0.5362, 0.4069)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8313
RGB	255, 131, 19
RGB Percent	100%, 51%, 7%
CMY	0.0001, 0.4862, 0.9259
CMYK	0.00, 0.49, 0.93, 0.00
HSL	28°, 100%, 54%
HSV	28°, 93%, 100%
XYZ	49.4685, 37.5396, 5.2495
YIQ	155.3080, 109.8560, -8.5440

# Conversions

## Conversions Part 2

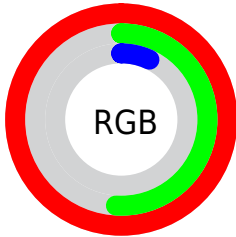
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 232, 19
Decimal	16745235
CIE <sub>Lab</sub>	67.68, 41.50, 71.48
CIE <sub>LCh</sub>	68, 82.659, 59.861
Yxy	37.5396, 0.5362, 0.4069
Android (android.graphics.Color)	4294935315 (0xFFFF8313)
YUV	155.3080, -67.1998, 87.4299
Hunter-Lab	61.2696, 36.8976, 37.8088

# Details

The Yxy color **37.5396, 0.5362, 0.4069** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **26.9563, 0.1833, 0.1757**, and the grayscale version is **33.1866, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.5520, 0.4546, 0.4279**, and **16.6683, 0.5662, 0.3887** is the 20% darker color. If you saturate the color by 10%, you get **34.9566, 0.5511, 0.4006**, and if you desaturate by 10%, it is **41.5122, 0.5124, 0.4112**.

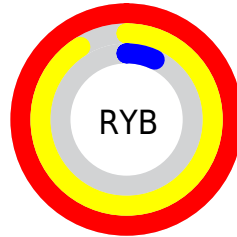
# Distribution



Red (100%)

Green (51%)

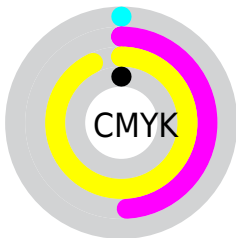
Blue (7%)



Red (100%)

Yellow (91%)

Blue (7%)

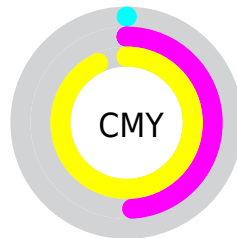


Cyan (0%)

Magenta (49%)

Yellow (93%)

Black (0%)



Cyan (0%)

Magenta (49%)


Yellow (93%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.5396, 0.5362, 0.4069 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 37.5396, 0.5362, 0.4069 by changing the saturation by 10% instead.





 37.5396, 0.5362,  
0.4069


 37.5396, 0.5362,  
0.4069


335.6408, 0.4302,  
0.3849

 25.6256, 0.5574,  
0.4057


 71.4019, 0.5011,  
0.4039


 16.5437, 0.5811,  
0.4007


 94.1190, 0.4867,  
0.4013


 9.9097, 0.6092,  
0.3908


 121.2058, 0.4742,  
0.3984

 5.3391, 0.6334,  
0.3666

 153.0469, 0.4631,  
0.3955

 2.4476, 0.6690,  
0.3310

 190.0265, 0.4534,  
0.3927


 0.8502, 0.7258,  
0.2742

 232.5291, 0.4447,


 0.0000, 1.0000,


0.3899

0.0000


 280.9391, 0.4370,  
0.3874


 0.0000, 0.0000,  
0.0000

 37.5396, 0.5362,  
0.4069


 37.5396, 0.5362,  
0.4069

 34.9566, 0.5511,  
0.4006


 41.5122, 0.5124,  
0.4112


 46.0820, 0.4851,  
0.4100

 51.2857, 0.4561,  
0.4039

 57.1538, 0.4274,  
0.3944

 63.7142, 0.4003,  
0.3827

 70.9926, 0.3754,  
0.3699

 79.0134, 0.3532,  
0.3569

 87.7993, 0.3337,  
0.3441

 97.3722, 0.3167,  
0.3320

# Harmonies

## Analogous

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



37.5396, 0.5395, 0.3295



37.5396, 0.5362, 0.4069



37.5396, 0.4674, 0.4909

# Triad

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



37.5396, 0.5362, 0.4069



37.5396, 0.1728, 0.3969



37.5396, 0.2203, 0.1676

# Complementary

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



37.5396, 0.5362, 0.4069



26.9563, 0.1833, 0.1757

# 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.



37.5396, 0.1534, 0.1617



37.5396, 0.5362, 0.4069



37.5396, 0.1286, 0.2631

# Square

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



37.5396, 0.5362, 0.4069



37.5396, 0.2601, 0.5309



37.5396, 0.1243, 0.1887



37.5396, 0.3297, 0.2016



# Rectangle

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



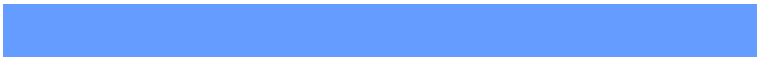
37.5396, 0.5362, 0.4069



37.5396, 0.4024, 0.5399



37.5396, 0.1243, 0.1887



37.5396, 0.1933, 0.1624

# Sweetspot

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



37.5417, 0.5362, 0.4069



74.5936, 0.3649, 0.3639



23.7570, 0.4696, 0.2396



15.2430, 0.3748, 0.3696



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.



37.5417, 0.5362, 0.4069



34.9619, 0.5511, 0.4006



87.8938, 0.4237, 0.4989



19.4101, 0.3282, 0.3403



18.5626, 0.5484, 0.4028



2.0243, 0.5299, 0.4175



# Inverse Universe

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



26.9563, 0.1833, 0.1757



24.2393, 0.1786, 0.1630



8.1291, 0.1533, 0.0666



18.9563, 0.2979, 0.3174



12.9670, 0.1794, 0.1658



1.4814, 0.1849, 0.1857



# Previews

## White Background



This preview shows how the Yxy color 37.5396, 0.5362, 0.4069 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 37.5396, 0.5362, 0.4069 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 37.5396, 0.5362, 0.4069**

## Background



This preview shows how black text looks on a background with the Yxy color 37.5396, 0.5362, 0.4069.



This preview shows how white text looks on a background with the Yxy color 37.5396, 0.5362, 0.4069.

# 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

37.5396, 0.5362, 0.4069

### Protanopia

37.8002, 0.4341, 0.4811

### Deuteranopia

37.6693, 0.4719, 0.4635



## Tritanopia

37.6207, 0.4510, 0.3213

# Trichromacy



**Original Color**

37.5396, 0.5362, 0.4069

**Protanomaly**

36.7015, 0.4738, 0.4525

**Deuteranomaly**

37.3639, 0.4966, 0.4419

**Tritanomaly**

37.2115, 0.4947, 0.3627

# Monochromacy



**Original Color**

37.5396, 0.5362, 0.4069

**Achromatopsia**

32.7778, 0.3127, 0.3290

**Achromatomaly**

32.6747, 0.4035, 0.3836

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.5396, 0.5362, 0.4069 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, 131, 19)` looks like.

```
.text, #text, p{  
    color:rgb(255, 131, 19)  
}
```

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, 131, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 131, 19) }
```

## Border

The CSS property to change the border of an element to Yxy 37.5396, 0.5362, 0.4069 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, 131, 19) }
```

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

```
.border{ border-color:rgb(255, 131, 19) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 131, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 131, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 131, 19);  
box-shadow:4px 4px 4px 4px rgb(255, 131,  
19) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.5396, 0.5362, 0.4069 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 131, 19) }
```

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

```
.background{ background-color: rgb(255,  
131, 19) }
```

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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