

# Converting Colors

$Y_{xy}(37.6478, 0.5236, 0.3949)$

Have a look what the booklet for  
Yxy(37.6478, 0.5236, 0.3949)  
contains.

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# Color

**Yxy(37.7316, 0.5233, 0.3952)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF8333
RGB	255, 131, 51
RGB Percent	100%, 51%, 20%
CMY	0.0000, 0.4863, 0.8000
CMYK	0.00, 0.49, 0.80, 0.00
HSL	24°, 100%, 60%
HSV	24°, 80%, 100%
XYZ	49.9619, 37.7316, 7.7812
YIQ	158.9560, 99.5840, 1.4080

# Conversions

## Conversions Part 2

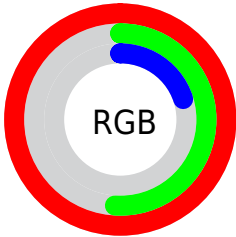
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 183, 51
Decimal	16745267
CIE Lab	67.82, 42.22, 61.52
CIE LCh	68, 74.619, 55.540
Yxy	37.7316, 0.5233, 0.3952
Android (android.graphics.Color)	4294935347 (0xFFFF8333)
YUV	158.9560, -53.2223, 84.2306
Hunter-Lab	61.4261, 37.6904, 35.4876

# Details

The Yxy color **37.7316, 0.5233, 0.3952** 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 **38.5883, 0.2002, 0.2223**, and the grayscale version is **34.8594, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.3571, 0.4397, 0.4118**, and **16.6683, 0.5662, 0.3887** is the 20% darker color. If you saturate the color by 10%, you get **33.7049, 0.5519, 0.3908**, and if you desaturate by 10%, it is **42.4975, 0.4911, 0.3944**.

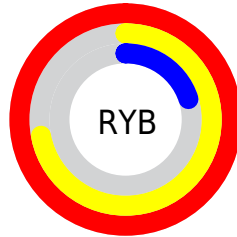
# Distribution



Red (100%)

Green (51%)

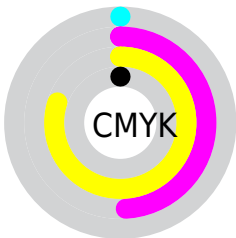
Blue (20%)



Red (100%)

Yellow (72%)

Blue (20%)

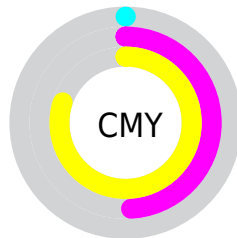


Cyan (0%)

Magenta (49%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (49%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.7316, 0.5233, 0.3952 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 37.7316, 0.5233, 0.3952 by changing the saturation by 10% instead.





 37.7316, 0.5233,  
0.3952


 37.7316, 0.5233,  
0.3952


336.4672, 0.4201,  
0.3750

 25.7744, 0.5457,  
0.3950


 71.6966, 0.4878,  
0.3916


 16.6550, 0.5716,  
0.3918


 94.4732, 0.4738,  
0.3891


 9.9888, 0.6048,  
0.3853


 121.6250, 0.4617,  
0.3865

 5.3915, 0.6352,  
0.3648

 153.5366, 0.4511,  
0.3840

 2.4788, 0.6709,  
0.3291

 190.5921, 0.4419,  
0.3815

 0.8660, 0.7276,  
0.2724

 233.1762, 0.4338,

 0.0000, 1.0000,

0.3792

0.0000

281.6731, 0.4265,  
0.3770

■ 0.0000, 0.0000,  
0.0000

■ 37.7316, 0.5233,  
0.3952

■ 37.7316, 0.5233,  
0.3952

■ 33.7049, 0.5519,  
0.3908

■ 42.4975, 0.4911,  
0.3944

■ 30.3714, 0.5752,  
0.3815

■ 48.0565, 0.4580,  
0.3892

■ 54.4442, 0.4263,  
0.3810

■ 61.6968, 0.3972,  
0.3710

■ 69.8478, 0.3713,  
0.3602

78.9289, 0.3488,  
0.3494

88.9700, 0.3293,  
0.3389

99.9995, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



37.7316, 0.5122, 0.3227



37.7316, 0.5233, 0.3952



37.7316, 0.4700, 0.4714

# Triad

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



37.7316, 0.5233, 0.3952



37.7316, 0.1952, 0.4100



37.7316, 0.2170, 0.1768

# Complementary

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



37.7316, 0.5233, 0.3952



38.5883, 0.2002, 0.2223

# 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.



37.7316, 0.1591, 0.1758



37.7316, 0.5233, 0.3952



37.7316, 0.1462, 0.2856

# Square

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



37.7316, 0.5233, 0.3952



37.7316, 0.2814, 0.5184



37.7316, 0.1361, 0.2079



37.7316, 0.3127, 0.2052



# Rectangle

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



37.7316, 0.5233, 0.3952



37.7316, 0.4131, 0.5156



37.7316, 0.1361, 0.2079



37.7316, 0.1935, 0.1732

# Sweetspot

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



37.7282, 0.5233, 0.3952



75.1833, 0.3574, 0.3537



26.7939, 0.4155, 0.2212



15.4055, 0.3655, 0.3575



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.



37.7282, 0.5233, 0.3952



31.6287, 0.5664, 0.3855



78.7628, 0.4301, 0.4807



19.1553, 0.3284, 0.3384



16.1394, 0.5723, 0.3838



1.7767, 0.5513, 0.4005

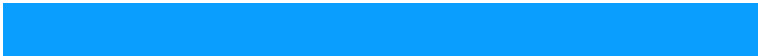


# Inverse Universe

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



38.5883, 0.2002, 0.2223



32.0871, 0.1889, 0.1982



12.9287, 0.1676, 0.0988



19.2157, 0.2979, 0.3195



16.3237, 0.1875, 0.1948



1.8022, 0.1922, 0.2117



# Previews

## White Background



This preview shows how the Yxy color 37.7316, 0.5233, 0.3952 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 37.7316, 0.5233, 0.3952 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 37.7316, 0.5233, 0.3952**

## Background



This preview shows how black text looks on a background with the Yxy color 37.7316, 0.5233, 0.3952.



This preview shows how white text looks on a background with the Yxy color 37.7316, 0.5233, 0.3952.

# 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

37.7316, 0.5233, 0.3952

### Protanopia

37.9130, 0.4195, 0.4615

### Deuteranopia

37.6839, 0.4607, 0.4513



## Tritanopia

37.6207, 0.4510, 0.3213

# Trichromacy



**Original Color**

37.7316, 0.5233, 0.3952

**Protanomaly**

36.7795, 0.4585, 0.4357

**Deuteranomaly**

37.3768, 0.4843, 0.4298

**Tritanomaly**

37.4180, 0.4835, 0.3528

# Monochromacy



**Original Color**

37.7316, 0.5233, 0.3952

**Achromatopsia**

34.6704, 0.3127, 0.3290

**Achromatomaly**

34.3203, 0.3905, 0.3683

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.7316, 0.5233, 0.3952 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, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 131, 51)  
}
```

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, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 131, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 37.7316, 0.5233, 0.3952 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, 51) }
```

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

```
.border{ border-color:rgb(255, 131, 51) }
```

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, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 131, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 131, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 131,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.7316, 0.5233, 0.3952 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, 51) }
```

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

```
.background{ background-color: rgb(255,  
131, 51) }
```

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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