

# Converting Colors

$Yxy(36.9728, 0.5334, 0.3996)$

Have a look what the booklet for  
Yxy(36.9728, 0.5334, 0.3996)  
contains.

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# Color

**Yxy(37.0879, 0.5329, 0.4000)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8124
RGB	255, 129, 36
RGB Percent	100%, 51%, 14%
CMY	0.0000, 0.4941, 0.8589
CMYK	0.00, 0.49, 0.86, 0.00
HSL	25°, 100%, 57%
HSV	25°, 86%, 100%
XYZ	49.4104, 37.0879, 6.2215
YIQ	156.0720, 104.9490, -2.2110

# Conversions

## Conversions Part 2

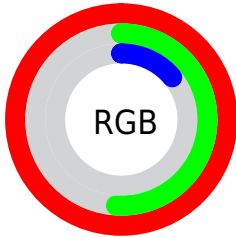
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 198, 36
Decimal	16744740
CIE <sub>Lab</sub>	67.34, 42.80, 66.66
CIE <sub>LCh</sub>	67, 79.218, 57.299
Yxy	37.0879, 0.5329, 0.4000
Android (android.graphics.Color)	4294934820 (0xFFFF8124)
YUV	156.0720, -59.1955, 86.7599
Hunter-Lab	60.8998, 38.2491, 36.5728

# Details

The Yxy color **37.0879, 0.5329, 0.4000** 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 **33.4263, 0.1927, 0.2032**, and the grayscale version is **33.5132, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.2963, 0.4493, 0.4196**, and **16.3841, 0.5691, 0.3863** is the 20% darker color. If you saturate the color by 10%, you get **33.3932, 0.5571, 0.3929**, and if you desaturate by 10%, it is **41.4497, 0.5040, 0.4016**.

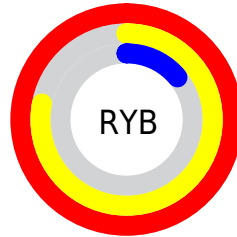
# Distribution



Red (100%)

Green (51%)

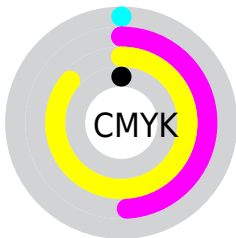
Blue (14%)



Red (100%)

Yellow (78%)

Blue (14%)

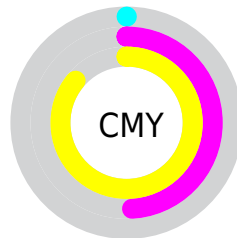


Cyan (0%)

Magenta (49%)

Yellow (86%)

Black (0%)



Cyan (0%)

Magenta (49%)


Yellow (86%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.0879, 0.5329, 0.4000 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 37.0879, 0.5329, 0.4000 by changing the saturation by 10% instead.




 37.0879, 0.5329,  
0.4000


 37.0879, 0.5329,  
0.4000


333.6909, 0.4265,  
0.3797


 25.2756, 0.5551,  
0.3990


 70.7080, 0.4970,  
0.3971


 16.2825, 0.5802,  
0.3944


 93.2845, 0.4825,  
0.3946


 9.7243, 0.6133,  
0.3867


 120.2178, 0.4699,  
0.3920

 5.2165, 0.6383,  
0.3617

 151.8924, 0.4590,  
0.3893

 2.3749, 0.6751,  
0.3249

 188.6926, 0.4493,  
0.3867

 0.8129, 0.7340,  
0.2660

 231.0028, 0.4408,

 0.0000, 1.0000,

0.3842

0.0000

279.2075, 0.4332,  
0.3819

■ 0.0000, 0.0000,  
0.0000

■ 37.0879, 0.5329,  
0.4000

■ 37.0879, 0.5329,  
0.4000

■ 33.3932, 0.5571,  
0.3929

■ 41.4497, 0.5040,  
0.4016


■ 32.0499, 0.5659,  
0.3889

■ 46.5185, 0.4728,  
0.3981

■ 52.3322, 0.4416,  
0.3908

■ 58.9247, 0.4120,  
0.3809

■ 66.3272, 0.3850,  
0.3696

 74.5691, 0.3611,  
0.3579

 83.6778, 0.3402,  
0.3463

 93.6798, 0.3221,  
0.3352

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.



37.0879, 0.5279, 0.3247



37.0879, 0.5329, 0.4000



37.0879, 0.4715, 0.4810

# Triad

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



37.0879, 0.5329, 0.4000



37.0879, 0.1834, 0.4070



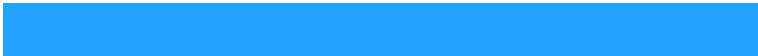
37.0879, 0.2162, 0.1704

# Complementary

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



37.0879, 0.5329, 0.4000



33.4263, 0.1927, 0.2032

# 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.



37.0879, 0.1540, 0.1672



37.0879, 0.5329, 0.4000



37.0879, 0.1359, 0.2751

# Square

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



37.0879, 0.5329, 0.4000



37.0879, 0.2716, 0.5290



37.0879, 0.1282, 0.1974



37.0879, 0.3191, 0.2014



# Rectangle

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



37.0879, 0.5329, 0.4000



37.0879, 0.4101, 0.5288



37.0879, 0.1282, 0.1974



37.0879, 0.1910, 0.1661

# Sweetspot

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



37.0887, 0.5329, 0.4000



74.4745, 0.3613, 0.3580



25.1914, 0.4372, 0.2269



15.3095, 0.3693, 0.3621



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.



37.0887, 0.5329, 0.4000



32.0499, 0.5659, 0.3889



81.8099, 0.4291, 0.4891



19.2553, 0.3284, 0.3391



17.0279, 0.5630, 0.3912



1.8690, 0.5429, 0.4072

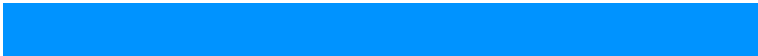


# Inverse Universe

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



33.4263, 0.1927, 0.2032



27.9922, 0.1835, 0.1807



10.2545, 0.1597, 0.0815



19.1132, 0.2979, 0.3187



14.9288, 0.1842, 0.1833



1.6702, 0.1893, 0.2014



# Previews

## White Background



This preview shows how the Yxy color 37.0879, 0.5329, 0.4000 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 37.0879, 0.5329, 0.4000 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 37.0879, 0.5329, 0.4000**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.0879, 0.5329, 0.4000.



This preview shows how white text looks on a background with the Yxy color 37.0879, 0.5329, 0.4000.

# 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

37.0879, 0.5329, 0.4000

### Protanopia

37.2901, 0.4271, 0.4727

### Deuteranopia

37.2338, 0.4691, 0.4594



## Tritanopia

37.0646, 0.4544, 0.3213

# Trichromacy



## Original Color

37.0879, 0.5329, 0.4000

## Protanomaly

36.3253, 0.4677, 0.4444

## Deuteranomaly

36.6355, 0.4944, 0.4364

## Tritanomaly

36.7718, 0.4923, 0.3572

# Monochromacy



## Original Color

37.0879, 0.5329, 0.4000

## Achromatopsia

33.2452, 0.3127, 0.3290

## Achromatomaly

32.9341, 0.3983, 0.3754

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.0879, 0.5329, 0.4000 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, 129, 36)` looks like.

```
.text, #text, p{  
    color:rgb(255, 129, 36)  
}
```

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, 129, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 129, 36) }
```

## Border

The CSS property to change the border of an element to Yxy 37.0879, 0.5329, 0.4000 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, 129, 36) }
```

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

```
.border{ border-color:rgb(255, 129, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 129, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 129, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 129, 36);  
box-shadow:4px 4px 4px 4px rgb(255, 129,  
36) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.0879, 0.5329, 0.4000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 129, 36) }
```

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

```
.background{ background-color: rgb(255,  
129, 36) }
```

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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