

# Converting Colors

$Y_{xy}(24.6074, 0.6129, 0.3515)$

Have a look what the booklet for  
Yxy(24.6074, 0.6129, 0.3515)  
contains.

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**Color**

**Yxy(24.5975, 0.6130, 0.3514)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF3D00
RGB	255, 61, 0
RGB Percent	100%, 24%, 0%
CMY	0.0000, 0.7607, 0.9992
CMYK	0.00, 0.76, 1.00, 0.00
HSL	14°, 100%, 50%
HSV	14°, 100%, 100%
XYZ	42.9091, 24.5975, 2.4919
YIQ	112.0520, 135.2050, 22.1570

# Conversions

## Conversions Part 2

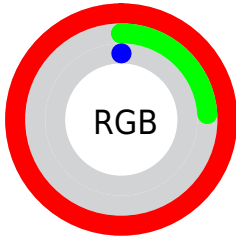
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 80, 0
Decimal	16727296
CIE Lab	56.68, 70.29, 68.53
CIE LCh	57, 98.164, 44.275
Yxy	24.5975, 0.6130, 0.3514
Android (android.graphics.Color)	4294917376 (0xFFFF3D00)
YUV	112.0520, -55.2416, 125.3654
Hunter-Lab	49.5959, 67.6411, 31.7381

# Details

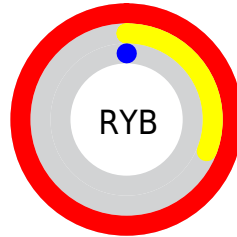
The Yxy color **24.5975, 0.6130, 0.3514** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **45.8869, 0.2023, 0.2484**, and the grayscale version is **16.3639, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.7848, 0.5235, 0.3806**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **24.5822, 0.6132, 0.3513**, and if you desaturate by 10%, it is **27.1330, 0.5885, 0.3603**.

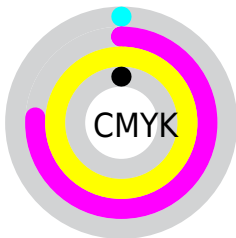
# Distribution



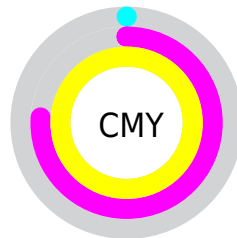
- Red (100%)
- Green (24%)
- Blue (0%)



- Red (100%)
- Yellow (31%)
- Blue (0%)



- Cyan (0%)
- Magenta (76%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (76%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.5975, 0.6130, 0.3514 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 24.5975, 0.6130, 0.3514 by changing the saturation by 10% instead.





 24.5975, 0.6130,  
0.3514


 24.5975, 0.6130,  
0.3514


275.8275, 0.4627,  
0.3655


 15.7774, 0.6437,  
0.3384


 51.0035, 0.5623,  
0.3638


 9.3668, 0.6810,  
0.3190


 69.3582, 0.5418,  
0.3663

 4.9812, 0.7150,  
0.2850

 91.6599, 0.5240,  
0.3675

 2.2362, 0.7620,  
0.2380

 118.2931, 0.5084,  
0.3679

 0.7396, 0.8299,  
0.1701

 149.6420, 0.4948,  
0.3677


 0.0000, 1.0000,  
0.0000


 186.0911, 0.4828,


 0.0000, 0.0000,

0.3671


0.0000

 228.0248, 0.4722,  
0.3664

 24.5975, 0.6130,  
0.3514


 24.5975, 0.6130,  
0.3514

 24.5822, 0.6132,  
0.3513

 27.1330, 0.5885,  
0.3603

 30.5844, 0.5549,  
0.3659

 35.0457, 0.5158,  
0.3674

 40.5925, 0.4755,  
0.3654

 47.2922, 0.4376,  
0.3608

■ 55.2069, 0.4038,  
0.3548

■ 64.3939, 0.3746,  
0.3482

■ 74.9066, 0.3501,  
0.3415

■ 86.7957, 0.3296,  
0.3350

# Harmonies

## Analogous

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



24.5975, 0.5726, 0.2719



24.5975, 0.6130, 0.3514



24.5975, 0.5460, 0.4498

# Triad

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



24.5975, 0.6130, 0.3514



24.5975, 0.1744, 0.5388



24.5975, 0.1464, 0.1232

# Complementary

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



24.5975, 0.6130, 0.3514



45.8869, 0.2023, 0.2484

# 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.



24.5975, 0.0958, 0.1315



24.5975, 0.6130, 0.3514



24.5975, 0.1012, 0.3154

# Square

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



24.5975, 0.6130, 0.3514



24.5975, 0.2933, 0.6471



24.5975, 0.0810, 0.1827



24.5975, 0.2508, 0.1457



# Rectangle

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



24.5975, 0.6130, 0.3514



24.5975, 0.4696, 0.5304



24.5975, 0.0810, 0.1827



24.5975, 0.1247, 0.1224

# Sweetspot

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



24.5990, 0.6130, 0.3514



64.3174, 0.3749, 0.3482



25.2287, 0.3920, 0.1933



12.9045, 0.3866, 0.3510



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.



24.5990, 0.6130, 0.3514



24.5827, 0.6132, 0.3513



56.8226, 0.4771, 0.4593



18.6908, 0.3288, 0.3347



13.0353, 0.6105, 0.3535

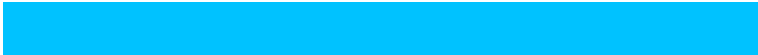


1.4294, 0.5890, 0.3705

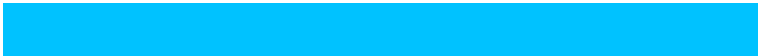


# Inverse Universe

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



45.8869, 0.2023, 0.2484



45.8652, 0.2023, 0.2483



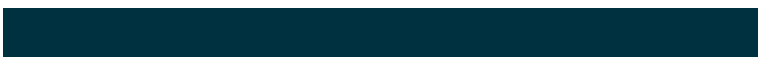
11.3732, 0.1582, 0.0894



19.7034, 0.2980, 0.3232



24.2084, 0.2027, 0.2498



2.5252, 0.2055, 0.2599



# Previews

## White Background



This preview shows how the Yxy color 24.5975, 0.6130, 0.3514 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

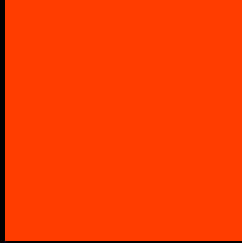
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 24.5975, 0.6130, 0.3514 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 × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 24.5975, 0.6130, 0.3514**

## Background



This preview shows how black text looks on a background with the Yxy color 24.5975, 0.6130, 0.3514.



This preview shows how white text looks on a background with the Yxy color 24.5975, 0.6130, 0.3514.

# 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

24.5975, 0.6130, 0.3514

### Protanopia

24.7574, 0.4300, 0.4770

### Deuteranopia

24.7359, 0.4699, 0.4651



## Tritanopia

24.6019, 0.5826, 0.3292

# Trichromacy



## Original Color

24.5975, 0.6130, 0.3514

## Protanomaly

21.9314, 0.5139, 0.4202

## Deuteranomaly

22.6597, 0.5358, 0.4128

## Tritanomaly

24.5279, 0.5996, 0.3408

# Monochromacy



## Original Color

24.5975, 0.6130, 0.3514

## Achromatopsia

16.2029, 0.3127, 0.3290

## Achromatomaly

16.1761, 0.4571, 0.3631

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.5975, 0.6130, 0.3514 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, 61, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 61, 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, 61, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 61, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 24.5975, 0.6130, 0.3514 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, 61, 0) }
```

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

```
.border{ border-color:rgb(255, 61, 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, 61, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 61, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 61, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 61, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 24.5975, 0.6130, 0.3514 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 61, 0) }
```

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

```
.background{ background-color: rgb(255, 61,  
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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