

# Converting Colors

$Y_{xy}(27.0277, 0.5957, 0.3653)$

Have a look what the booklet for  
Yxy(27.0277, 0.5957, 0.3653)  
contains.

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**Color**

**Yxy(26.9973, 0.5961, 0.3649)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5000
RGB	255, 80, 0
RGB Percent	100%, 31%, 0%
CMY	0.0001, 0.6861, 1.0000
CMYK	0.00, 0.69, 1.00, 0.00
HSL	19°, 100%, 50%
HSV	19°, 100%, 100%
XYZ	44.1027, 26.9973, 2.8854
YIQ	123.2050, 129.9800, 12.2200

# Conversions

## Conversions Part 2

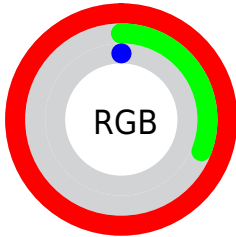
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 117, 0
Decimal	16732160
CIELab	58.97, 63.94, 69.63
CIElCh	59, 94.534, 47.443
Yxy	26.9973, 0.5961, 0.3649
Android (android.graphics.Color)	4294922240 (0xFFFF5000)
YUV	123.2050, -60.7401, 115.5842
Hunter-Lab	51.9589, 60.5827, 33.0787

# Details

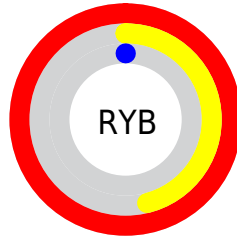
The Yxy color **26.9973, 0.5961, 0.3649** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **37.8545, 0.1947, 0.2209**, and the grayscale version is **20.0565, 0.3127, 0.3290**.

A 20% lighter version of the original color is **39.8186, 0.5073, 0.3939**, and **10.8188, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **26.9990, 0.5961, 0.3649**, and if you desaturate by 10%, it is **29.9765, 0.5714, 0.3745**.

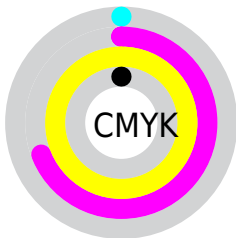
# Distribution



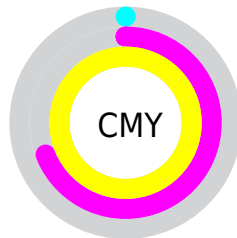
- Red (100%)
- Green (31%)
- Blue (0%)



- Red (100%)
- Yellow (46%)
- Blue (0%)



- Cyan (0%)
- Magenta (69%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (69%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 26.9973, 0.5961, 0.3649 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 26.9973, 0.5961, 0.3649 by changing the saturation by 10% instead.





 26.9973, 0.5961,  
0.3649


 26.9973, 0.5961,  
0.3649


287.6440, 0.4559,  
0.3704


 17.5712, 0.6245,  
0.3546


 54.8795, 0.5490,  
0.3737

 10.6426, 0.6606,  
0.3394


 74.1045, 0.5299,  
0.3750

 5.8270, 0.6909,  
0.3091

 97.3644, 0.5132,  
0.3752

 2.7402, 0.7330,  
0.2670

 125.0439, 0.4987,  
0.3748

 0.9976, 0.7938,  
0.2062

 157.5272, 0.4859,  
0.3739

 0.0000, 1.0000,  
0.0000

 195.1987, 0.4747,


 0.0000, 0.0000,


0.3729


0.0000

 238.4428, 0.4647,  
0.3717


 26.9973, 0.5961,  
0.3649


 26.9973, 0.5961,  
0.3649


 26.9990, 0.5961,  
0.3649

 29.9765, 0.5714,  
0.3745

 33.7625, 0.5398,  
0.3800

 38.4288, 0.5039,  
0.3806

 44.0325, 0.4671,  
0.3771

 50.6252, 0.4322,  
0.3708

■ 58.2544, 0.4006,  
0.3628

■ 66.9642, 0.3731,  
0.3541

■ 76.7960, 0.3495,  
0.3454

■ 87.7890, 0.3296,  
0.3369

# Harmonies

## Analogous

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



26.9973, 0.5671, 0.2851



26.9973, 0.5961, 0.3649



26.9973, 0.5275, 0.4613

# Triad

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



26.9973, 0.5961, 0.3649



26.9973, 0.1738, 0.5014



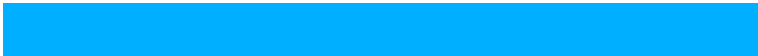
26.9973, 0.1620, 0.1324

# Complementary

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



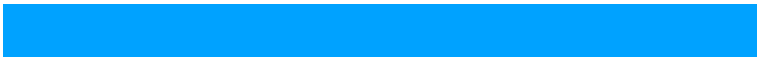
26.9973, 0.5961, 0.3649



37.8545, 0.1947, 0.2209

# 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.



26.9973, 0.1075, 0.1377



26.9973, 0.5961, 0.3649



26.9973, 0.1070, 0.3003

# Square

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



26.9973, 0.5961, 0.3649



26.9973, 0.2869, 0.6252



26.9973, 0.0899, 0.1832



26.9973, 0.2691, 0.1577



# Rectangle

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



26.9973, 0.5961, 0.3649



26.9973, 0.4534, 0.5356



26.9973, 0.0899, 0.1832



26.9973, 0.1389, 0.1307

# Sweetspot

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



26.9990, 0.5961, 0.3649



66.9772, 0.3731, 0.3541



24.4897, 0.4168, 0.2070



13.5209, 0.3842, 0.3578



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.



26.9990, 0.5961, 0.3649



27.0042, 0.5961, 0.3649



64.4332, 0.4606, 0.4725



18.9173, 0.3286, 0.3365



14.3442, 0.5931, 0.3673



1.5823, 0.5711, 0.3848

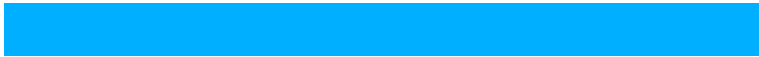


# Inverse Universe

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



37.8545, 0.1947, 0.2209



37.8618, 0.1947, 0.2209



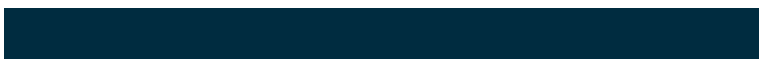
9.5859, 0.1548, 0.0772



19.4630, 0.2980, 0.3214



20.0630, 0.1953, 0.2229



2.1493, 0.1990, 0.2364



# Previews

## White Background



This preview shows how the Yxy color 26.9973, 0.5961, 0.3649 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 26.9973, 0.5961, 0.3649 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 26.9973, 0.5961, 0.3649**

## Background



This preview shows how black text looks on a background with the Yxy color 26.9973, 0.5961, 0.3649.



This preview shows how white text looks on a background with the Yxy color 26.9973, 0.5961, 0.3649.

# 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

26.9973, 0.5961, 0.3649

### Protanopia

27.1976, 0.4323, 0.4796

### Deuteranopia

26.9117, 0.4705, 0.4646



## Tritanopia

27.0081, 0.5475, 0.3266

# Trichromacy



## Original Color

26.9973, 0.5961, 0.3649

## Protanomaly

25.0755, 0.5036, 0.4307

## Deuteranomaly

25.5269, 0.5255, 0.4210

## Tritanomaly

26.8068, 0.5759, 0.3470

# Monochromacy



## Original Color

26.9973, 0.5961, 0.3649

## Achromatopsia

19.8069, 0.3127, 0.3290

## Achromatomaly

19.7234, 0.4426, 0.3726

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 26.9973, 0.5961, 0.3649 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, 80, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 80, 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, 80, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 80, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 26.9973, 0.5961, 0.3649 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, 80, 0) }
```

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

```
.border{ border-color:rgb(255, 80, 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, 80, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 80, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 80, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 80, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 26.9973, 0.5961, 0.3649 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 80, 0) }
```

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

```
.background{ background-color: rgb(255, 80,  
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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