

# Converting Colors

$Y_{xy}(28.7720, 0.5830, 0.3725)$

Have a look what the booklet for  
Yxy(28.7720, 0.5830, 0.3725)  
contains.

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**Color**

**Yxy(28.7619, 0.5831, 0.3724)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5B09
RGB	255, 91, 9
RGB Percent	100%, 36%, 4%
CMY	0.0000, 0.6432, 0.9646
CMYK	0.00, 0.64, 0.96, 0.00
HSL	20°, 100%, 52%
HSV	20°, 96%, 100%
XYZ	45.0351, 28.7619, 3.4369
YIQ	130.6880, 124.0660, 9.2660

# Conversions

## Conversions Part 2

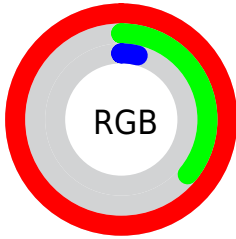
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 132, 9
Decimal	16734985
CIE Lab	60.57, 59.75, 68.81
CIE LCh	61, 91.134, 49.031
Yxy	28.7619, 0.5831, 0.3724
Android (android.graphics.Color)	4294925065 (0xFFFF5B09)
YUV	130.6880, -59.9922, 109.0216
Hunter-Lab	53.6301, 56.0399, 33.7415

# Details

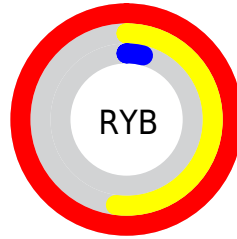
The Yxy color **28.7619, 0.5831, 0.3724** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **37.1769, 0.1944, 0.2183**, and the grayscale version is **22.7634, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.5696, 0.4952, 0.3994**, and **11.6493, 0.6263, 0.3409** is the 20% darker color. If you saturate the color by 10%, you get **27.7533, 0.5912, 0.3688**, and if you desaturate by 10%, it is **32.1024, 0.5565, 0.3809**.

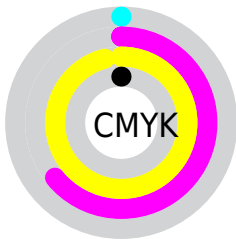
# Distribution



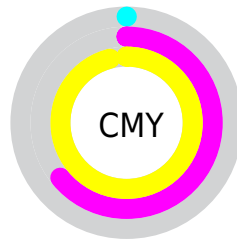
- Red (100%)
- Green (36%)
- Blue (4%)



- Red (100%)
- Yellow (52%)
- Blue (4%)



- Cyan (0%)
- Magenta (64%)
- Yellow (96%)
- Black (0%)




- Cyan (0%)
- Magenta (64%)
- Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.7619, 0.5831, 0.3724 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 28.7619, 0.5831, 0.3724 by changing the saturation by 10% instead.




 28.7619, 0.5831,  
0.3724


 28.7619, 0.5831,  
0.3724


296.0899, 0.4496,  
0.3722


 18.9008, 0.6104,  
0.3641


 57.6986, 0.5381,  
0.3786


 11.5986, 0.6456,  
0.3520

 77.5429, 0.5199,  
0.3790


 6.4710, 0.6750,  
0.3250


 101.4838, 0.5041,  
0.3786

 3.1335, 0.7137,  
0.2863

 129.9056, 0.4903,  
0.3777

 1.2018, 0.7701,  
0.2299

 163.1927, 0.4782,  
0.3765

 0.0632, 0.9645,  
0.0355

 201.7295, 0.4675,


 0.0000, 1.0000,


0.3751


0.0000


 245.9004, 0.4581,  
0.3736


 0.0000, 0.0000,  
0.0000


 28.7619, 0.5831,  
0.3724


 28.7619, 0.5831,  
0.3724


 27.7533, 0.5912,  
0.3688

 32.1024, 0.5565,  
0.3809

 36.2528, 0.5237,  
0.3844

 41.2699, 0.4880,  
0.3830

 47.2049, 0.4525,  
0.3780

 54.1046, 0.4193,  
0.3704

62.0120, 0.3897,  
0.3616

70.9676, 0.3640,  
0.3523

81.0092, 0.3419,  
0.3431

92.1730, 0.3232,  
0.3344

# Harmonies

## Analogous

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



28.7619, 0.5585, 0.2930



28.7619, 0.5831, 0.3724



28.7619, 0.5167, 0.4663

# Triad

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



28.7619, 0.5831, 0.3724



28.7619, 0.1768, 0.4804



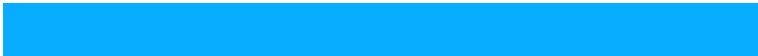
28.7619, 0.1723, 0.1400

# Complementary

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



28.7619, 0.5831, 0.3724



37.1769, 0.1944, 0.2183

# 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.



28.7619, 0.1163, 0.1439



28.7619, 0.5831, 0.3724



28.7619, 0.1133, 0.2954

# Square

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



28.7619, 0.5831, 0.3724



28.7619, 0.2857, 0.6061



28.7619, 0.0975, 0.1867



28.7619, 0.2789, 0.1663



# Rectangle

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



28.7619, 0.5831, 0.3724



28.7619, 0.4457, 0.5355



28.7619, 0.0975, 0.1867



28.7619, 0.1487, 0.1378

# Sweetspot

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



28.7606, 0.5831, 0.3724



68.5933, 0.3702, 0.3547



24.6344, 0.4186, 0.2093



13.8610, 0.3811, 0.3587



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.



28.7606, 0.5831, 0.3724



27.7533, 0.5912, 0.3688



67.3256, 0.4545, 0.4758



18.9759, 0.3286, 0.3370



14.7455, 0.5882, 0.3712



1.6270, 0.5662, 0.3886



# Inverse Universe

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



37.1769, 0.1944, 0.2183



35.9783, 0.1927, 0.2138



9.9275, 0.1560, 0.0795



19.4016, 0.2980, 0.3209



19.0854, 0.1933, 0.2159



2.0594, 0.1973, 0.2303



# Previews

## White Background



This preview shows how the Yxy color 28.7619, 0.5831, 0.3724 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 28.7619, 0.5831, 0.3724 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 28.7619, 0.5831, 0.3724**

## Background



This preview shows how black text looks on a background with the Yxy color 28.7619, 0.5831, 0.3724.



This preview shows how white text looks on a background with the Yxy color 28.7619, 0.5831, 0.3724.

# 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

28.7619, 0.5831, 0.3724

### Protanopia

28.9506, 0.4330, 0.4792

### Deuteranopia

28.7795, 0.4714, 0.4639



## Tritanopia

28.8317, 0.5266, 0.3262

# Trichromacy



## Original Color

28.7619, 0.5831, 0.3724

## Protanomaly

27.2387, 0.4955, 0.4352

## Deuteranomaly

27.6273, 0.5176, 0.4261

## Tritanomaly

28.5764, 0.5580, 0.3499

# Monochromacy



## Original Color

28.7619, 0.5831, 0.3724

## Achromatopsia

22.6966, 0.3127, 0.3290

## Achromatomaly

22.4090, 0.4293, 0.3719

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.7619, 0.5831, 0.3724 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, 91, 9)` looks like.

```
.text, #text, p{  
    color:rgb(255, 91, 9)  
}
```

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, 91, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 91, 9) }
```

## Border

The CSS property to change the border of an element to Yxy 28.7619, 0.5831, 0.3724 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, 91, 9) }
```

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

```
.border{ border-color:rgb(255, 91, 9) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 91, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 91, 9); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 91, 9);  
box-shadow:4px 4px 4px 4px rgb(255, 91, 9)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 28.7619, 0.5831, 0.3724 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 91, 9) }
```

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

```
.background{ background-color: rgb(255, 91,  
9) }
```

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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