

# Converting Colors

$Y_{xy}(22.8689, 0.6150, 0.3328)$

Have a look what the booklet for  
Yxy(22.8689, 0.6150, 0.3328)  
contains.

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**Color**

**Yxy(22.8819, 0.6152, 0.3331)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF2820
RGB	255, 40, 32
RGB Percent	100%, 16%, 13%
CMY	0.0000, 0.8431, 0.8747
CMYK	0.00, 0.84, 0.87, 0.00
HSL	2°, 100%, 56%
HSV	2°, 87%, 100%
XYZ	42.2604, 22.8819, 3.5515
YIQ	103.3730, 130.7080, 43.0920

# Conversions

## Conversions Part 2

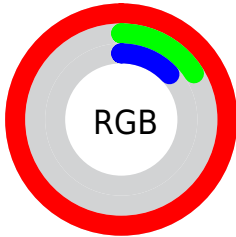
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 40, 32
Decimal	16721952
CIE <sub>Lab</sub>	54.95, 75.80, 58.43
CIE <sub>LCh</sub>	55, 95.706, 37.624
Yxy	22.8819, 0.6152, 0.3331
Android (android.graphics.Color)	4294912032 (0xFFFF2820)
YUV	103.3730, -35.1869, 132.9769
Hunter-Lab	47.8350, 73.9866, 29.0826

# Details

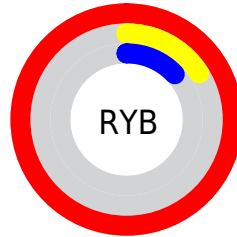
The Yxy color **22.8819, 0.6152, 0.3331** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **74.0032, 0.2236, 0.3189**, and the grayscale version is **13.7368, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.0059, 0.5198, 0.3552**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.6282, 0.6352, 0.3314**, and if you desaturate by 10%, it is **25.2935, 0.5797, 0.3344**.

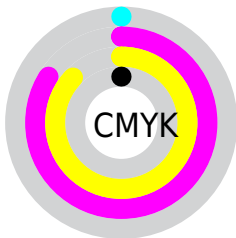
# Distribution



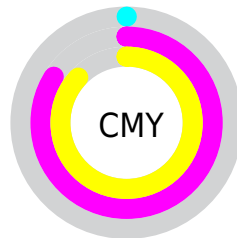
- Red (100%)
- Green (16%)
- Blue (13%)



- Red (100%)
- Yellow (16%)
- Blue (13%)



- Cyan (0%)
- Magenta (84%)
- Yellow (87%)
- Black (0%)




- Cyan (0%)
- Magenta (84%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.8819, 0.6152, 0.3331 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 22.8819, 0.6152, 0.3331 by changing the saturation by 10% instead.




 22.8819, 0.6152,  
0.3331


 22.8819, 0.6152,  
0.3331


267.1178, 0.4579,  
0.3530


 14.5063, 0.6499,  
0.3196


 48.1993, 0.5600,  
0.3467

 8.4737, 0.6950,  
0.3004


 65.9100, 0.5384,  
0.3499


 4.3995, 0.7352,  
0.2648


 87.5011, 0.5199,  
0.3518

 1.8995, 0.7857,  
0.2143

 113.3571, 0.5039,  
0.3528

 0.5480, 0.8641,  
0.1359

 143.8624, 0.4901,  
0.3533

 0.0000, 1.0000,  
0.0000


 179.4014, 0.4780,

 0.0000, 0.0000,


0.3534


0.0000


 220.3584, 0.4673,  
0.3533

 22.8819, 0.6152,  
0.3331

 22.8819, 0.6152,  
0.3331


 21.6282, 0.6352,  
0.3314


 25.2935, 0.5797,  
0.3344

 21.4603, 0.6383,  
0.3314

 29.0563, 0.5345,  
0.3348

 34.3292, 0.4870,  
0.3346

 41.2490, 0.4426,  
0.3339

 49.9370, 0.4041,  
0.3329

60.5032, 0.3722,  
0.3318

73.0486, 0.3463,  
0.3307

87.6671, 0.3255,  
0.3297

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.



22.8819, 0.5451, 0.2550



22.8819, 0.6152, 0.3331



22.8819, 0.5666, 0.4253

# Triad

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



22.8819, 0.6152, 0.3331



22.8819, 0.1985, 0.5821



22.8819, 0.1315, 0.1224

# Complementary

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



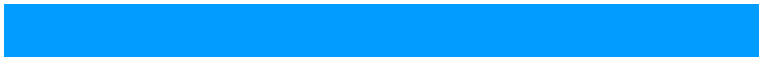
22.8819, 0.6152, 0.3331



74.0032, 0.2236, 0.3189

# 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.



22.8819, 0.0899, 0.1384



22.8819, 0.6152, 0.3331



22.8819, 0.1124, 0.3602

# Square

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



22.8819, 0.6152, 0.3331



22.8819, 0.3219, 0.6398



22.8819, 0.0822, 0.2034



22.8819, 0.2221, 0.1383



# Rectangle

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



22.8819, 0.6152, 0.3331



22.8819, 0.4970, 0.5030



22.8819, 0.0822, 0.2034



22.8819, 0.1132, 0.1239

# Sweetspot

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



22.8824, 0.6152, 0.3331



62.2261, 0.3680, 0.3317



29.0401, 0.3282, 0.1626



12.4671, 0.3780, 0.3320



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.



22.8824, 0.6152, 0.3331



21.4603, 0.6383, 0.3314



43.4668, 0.5102, 0.4220



18.0923, 0.3294, 0.3299



11.2591, 0.6376, 0.3320



1.1317, 0.6316, 0.3367



# Inverse Universe

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



74.0032, 0.2236, 0.3189



72.9925, 0.2215, 0.3174



25.1443, 0.1823, 0.1669



20.3620, 0.2980, 0.3281



38.1902, 0.2216, 0.3176



3.7523, 0.2219, 0.3190



# Previews

## White Background



This preview shows how the Yxy color 22.8819, 0.6152, 0.3331 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 22.8819, 0.6152, 0.3331 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 22.8819, 0.6152, 0.3331**

## Background



This preview shows how black text looks on a background with the Yxy color 22.8819, 0.6152, 0.3331.



This preview shows how white text looks on a background with the Yxy color 22.8819, 0.6152, 0.3331.

# 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

22.8819, 0.6152, 0.3331

### Protanopia

22.9626, 0.4137, 0.4539

### Deuteranopia

22.8827, 0.4716, 0.4637



## Tritanopia

22.9112, 0.6119, 0.3312

# Trichromacy



**Original Color**

22.8819, 0.6152, 0.3331

**Protanomaly**

19.5522, 0.5071, 0.3937

**Deuteranomaly**

20.1741, 0.5461, 0.3988

**Tritanomaly**

22.8989, 0.6132, 0.3320

# Monochromacy



**Original Color**

22.8819, 0.6152, 0.3331

**Achromatopsia**

13.5633, 0.3127, 0.3290

**Achromatomaly**

13.5422, 0.4518, 0.3342

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.8819, 0.6152, 0.3331 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, 40, 32)` looks like.

```
.text, #text, p{  
    color:rgb(255, 40, 32)  
}
```

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, 40, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 40, 32) }
```

## Border

The CSS property to change the border of an element to Yxy 22.8819, 0.6152, 0.3331 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, 40, 32) }
```

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

```
.border{ border-color:rgb(255, 40, 32) }
```

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

Here you see how a box with a 4 pixel rgb(255, 40, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 40, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 40, 32);  
box-shadow:4px 4px 4px 4px rgb(255, 40,  
32) }
```



# Background

The CSS property to change the background color of an element to Yxy 22.8819, 0.6152, 0.3331 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 40, 32) }
```

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

```
.background{ background-color: rgb(255, 40,  
32) }
```

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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