

# Converting Colors

$Y_{xy}(21.7057, 0.5894, 0.3021)$

Have a look what the booklet for  
Yxy(21.7057, 0.5894, 0.3021)  
contains.

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**Color**

**Yxy(21.7022, 0.5898, 0.3023)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0046
RGB	255, 0, 70
RGB Percent	100%, 0%, 27%
CMY	0.0000, 0.9993, 0.7256
CMYK	0.00, 1.00, 0.73, 0.00
HSL	344°, 100%, 50%
HSV	344°, 100%, 100%
XYZ	42.3419, 21.7022, 7.7462
YIQ	84.2250, 129.5100, 75.8300

# Conversions

## Conversions Part 2

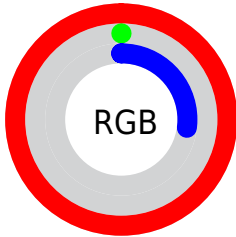
Format	Color
R <sub>Y</sub> B	255, 0, 70
Decimal	16711750
CIE Lab	53.71, 81.40, 37.32
CIE LCh	54, 89.543, 24.630
Yxy	21.7022, 0.5898, 0.3023
Android (android.graphics.Color)	4294901830 (0xFFFF0046)
YUV	84.2250, -7.0129, 149.7697
Hunter-Lab	46.5856, 80.7147, 22.7513

# Details

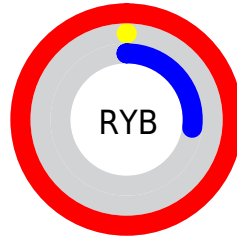
The Yxy color **21.7022, 0.5898, 0.3023** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **75.0254, 0.2506, 0.4222**, and the grayscale version is **8.9303, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.3034, 0.4850, 0.3106**, and **10.8979, 0.6211, 0.3195** is the 20% darker color. If you saturate the color by 10%, you get **21.6981, 0.5900, 0.3024**, and if you desaturate by 10%, it is **22.6951, 0.5597, 0.2928**.

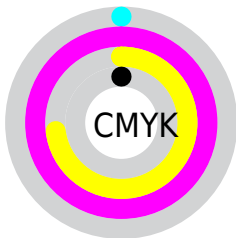
# Distribution



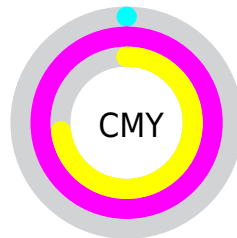
- Red (100%)
- Green (0%)
- Blue (27%)



- Red (100%)
- Yellow (0%)
- Blue (27%)



- Cyan (0%)
- Magenta (100%)
- Yellow (73%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.7022, 0.5898, 0.3023 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 21.7022, 0.5898, 0.3023 by changing the saturation by 10% instead.





 21.7022, 0.5898,  
0.3023


 21.7022, 0.5898,  
0.3023


260.9871, 0.4383,  
0.3298


 13.6382, 0.6283,  
0.2899


 46.2533, 0.5333,  
0.3163


 7.8695, 0.6762,  
0.2708


 63.5092, 0.5123,  
0.3203


 4.0116, 0.7419,  
0.2430

 84.5980, 0.4947,  
0.3232

 1.6800, 0.8062,  
0.1938

 109.9039, 0.4799,  
0.3254

 0.4107, 0.8950,  
0.1050

 139.8113, 0.4672,  
0.3269

 0.0000, 1.0000,  
0.0000

 174.7048, 0.4562,

 0.0000, 0.0000,

0.3281

0.0000

214.9686, 0.4467,  
0.3291

■ 21.7022, 0.5898,  
0.3023

■ 21.7022, 0.5898,  
0.3023

■ 21.6981, 0.5900,  
0.3024

■ 22.6951, 0.5597,  
0.2928

■ 24.7024, 0.5237,  
0.2870

■ 28.0140, 0.4853,  
0.2856

■ 32.8092, 0.4482,  
0.2881

■ 39.2388, 0.4146,  
0.2932

■ 47.4349, 0.3858,  
0.3000

■ 57.5161, 0.3617,  
0.3074

■ 69.5904, 0.3418,  
0.3149

■ 83.7579, 0.3257,  
0.3222

# Harmonies

## Analogous

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



21.7022, 0.4704, 0.2270



21.7022, 0.5898, 0.3023



21.7022, 0.5897, 0.3849

# Triad

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



21.7022, 0.5898, 0.3023



21.7022, 0.2557, 0.6201



21.7022, 0.1145, 0.1311

# Complementary

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



21.7022, 0.5898, 0.3023



75.0254, 0.2506, 0.4222

# 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.



21.7022, 0.0888, 0.1650



21.7022, 0.5898, 0.3023



21.7022, 0.1498, 0.4531

# Square

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



21.7022, 0.5898, 0.3023



21.7022, 0.3813, 0.5972



21.7022, 0.0965, 0.2619



21.7022, 0.1803, 0.1336



# Rectangle

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



21.7022, 0.5898, 0.3023



21.7022, 0.5392, 0.4516



21.7022, 0.0965, 0.2619



21.7022, 0.1022, 0.1376

# Sweetspot

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



21.7036, 0.5898, 0.3023



57.4447, 0.3618, 0.3074



17.2650, 0.2490, 0.1145



11.3362, 0.3714, 0.3042



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.



21.7036, 0.5898, 0.3023



21.7002, 0.5900, 0.3024



24.0276, 0.6173, 0.3480



18.0688, 0.3251, 0.3225



11.3602, 0.5858, 0.3001



1.1236, 0.5540, 0.2825



# Inverse Universe

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



21.7036, 0.5898, 0.3023



21.7002, 0.5900, 0.3024



48.4271, 0.2045, 0.2562



18.0688, 0.3251, 0.3225



11.3602, 0.5858, 0.3001



1.1236, 0.5540, 0.2825



# Previews

## White Background



This preview shows how the Yxy color 21.7022, 0.5898, 0.3023 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 21.7022, 0.5898, 0.3023 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 21.7022, 0.5898, 0.3023**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.7022, 0.5898, 0.3023.



This preview shows how white text looks on a background with the Yxy color 21.7022, 0.5898, 0.3023.

# 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

21.7022, 0.5898, 0.3023

### Protanopia

22.1237, 0.3507, 0.3716

### Deuteranopia

22.0384, 0.4373, 0.4280



**Tritanopia**

22.0037, 0.6259, 0.3323

# Trichromacy



## Original Color

21.7022, 0.5898, 0.3023



## Protanomaly

16.6311, 0.4555, 0.3155



## Deuteranomaly

17.3987, 0.5216, 0.3477



## Tritanomaly

21.6831, 0.6183, 0.3233

# Monochromacy



## Original Color

21.7022, 0.5898, 0.3023



## Achromatopsia

8.8656, 0.3127, 0.3290



## Achromatomaly

9.3138, 0.4512, 0.2881

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.7022, 0.5898, 0.3023 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, 0, 70)` looks like.

```
.text, #text, p{  
  color:rgb(255, 0, 70)  
}
```

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, 0, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 70) }
```

## Border

The CSS property to change the border of an element to Yxy 21.7022, 0.5898, 0.3023 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, 0, 70) }
```

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

```
.border{ border-color:rgb(255, 0, 70) }
```

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

Here you see how a box with a 4 pixel rgb(255, 0, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 70);  
box-shadow:4px 4px 4px 4px rgb(255, 0, 70)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 21.7022, 0.5898, 0.3023 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 70) }
```

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

```
.background{ background-color: rgb(255, 0,  
70) }
```

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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