

Converting Colors

$Y_{xy}(21.5321, 0.6074, 0.3120)$

Have a look what the booklet for
Yxy(21.5321, 0.6074, 0.3120)
contains.

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Color

Yxy(21.5358, 0.6074, 0.3120)

Conversions

Conversions Part 1

Format	Color
Hex	FF0037
RGB	255, 0, 55
RGB Percent	100%, 0%, 22%
CMY	0.0001, 0.9992, 0.7843
CMYK	0.00, 1.00, 0.78, 0.00
HSL	347°, 100%, 50%
HSV	347°, 100%, 100%
XYZ	41.9258, 21.5358, 5.5634
YIQ	82.5150, 134.3250, 71.1650

Conversions

Conversions Part 2

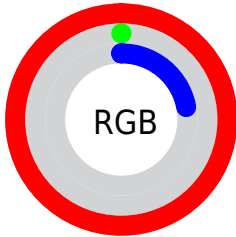
Format	Color
R_{YB}	255, 0, 55
Decimal	16711735
CIE Lab	53.53, 80.91, 45.67
CIE LCh	54, 92.909, 29.440
Yxy	21.5358, 0.6074, 0.3120
Android (android.graphics.Color)	4294901815 (0xFFFF0037)
YUV	82.5150, -13.5649, 151.2693
Hunter-Lab	46.4067, 80.0529, 25.3768

Details

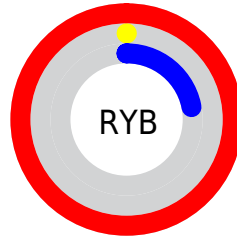
The Yxy color **21.5358, 0.6074, 0.3120** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **75.6889, 0.2447, 0.4009**, and the grayscale version is **8.5776, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.7687, 0.5061, 0.3250**, and **10.7204, 0.6329, 0.3260** is the 20% darker color. If you saturate the color by 10%, you get **21.5315, 0.6076, 0.3121**, and if you desaturate by 10%, it is **22.4906, 0.5785, 0.3035**.

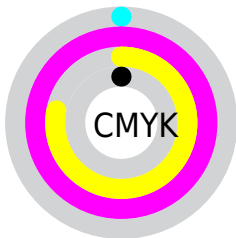
Distribution



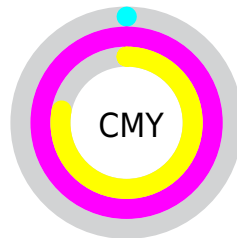
- Red (100%)
- Green (0%)
- Blue (22%)



- Red (100%)
- Yellow (0%)
- Blue (22%)



- Cyan (0%)
- Magenta (100%)
- Yellow (78%)
- Black (0%)





- Cyan (0%)
- Magenta (100%)
- Yellow (78%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 21.5358, 0.6074, 0.3120 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 21.5358, 0.6074, 0.3120 by changing the saturation by 10% instead.


 21.5358, 0.6074,
0.3120


 21.5358, 0.6074,
0.3120


260.1124, 0.4485,
0.3380


 13.5162, 0.6458,
0.2986


 45.9776, 0.5493,
0.3265


 7.7850, 0.6920,
0.2777


 63.1685, 0.5274,
0.3304

 3.9577, 0.7530,
0.2470

 84.1854, 0.5088,
0.3331

 1.6499, 0.8062,
0.1938

 109.4126, 0.4931,
0.3349

 0.3909, 0.8975,
0.1025

 139.2345, 0.4795,
0.3362

 0.0000, 1.0000,
0.0000

 174.0355, 0.4678,

 0.0000, 0.0000,

0.3370

0.0000

214.2000, 0.4576,
0.3376

■ 21.5358, 0.6074,
0.3120

■ 21.5358, 0.6074,
0.3120

■ 21.5315, 0.6076,
0.3121

■ 22.4906, 0.5785,
0.3035

■ 24.4682, 0.5414,
0.2978

■ 27.7602, 0.5005,
0.2958

■ 32.5474, 0.4601,
0.2972

■ 38.9823, 0.4235,
0.3010

■ 47.1980, 0.3919,
0.3062

■ 57.3143, 0.3656,
0.3120

■ 69.4403, 0.3441,
0.3180

■ 83.6770, 0.3267,
0.3237

Harmonies

Analogous

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



21.5358, 0.5027, 0.2353



21.5358, 0.6074, 0.3120



21.5358, 0.5864, 0.3977

Triad

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



21.5358, 0.6074, 0.3120



21.5358, 0.2316, 0.6186



21.5358, 0.1173, 0.1245

Complementary

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



21.5358, 0.6074, 0.3120



75.6889, 0.2447, 0.4009

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.



21.5358, 0.0859, 0.1512



21.5358, 0.6074, 0.3120



21.5358, 0.1314, 0.4208

Square

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



21.5358, 0.6074, 0.3120



21.5358, 0.3582, 0.6189



21.5358, 0.0873, 0.2360



21.5358, 0.1921, 0.1321

Rectangle

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



21.5358, 0.6074, 0.3120



21.5358, 0.5279, 0.4706



21.5358, 0.0873, 0.2360



21.5358, 0.1029, 0.1290

Sweetspot

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



21.5372, 0.6074, 0.3120



57.2385, 0.3658, 0.3120



19.4722, 0.2656, 0.1237



11.2885, 0.3763, 0.3095



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.



21.5372, 0.6074, 0.3120



21.5346, 0.6076, 0.3121



25.9419, 0.6033, 0.3591



18.0510, 0.3260, 0.3239



11.2700, 0.6039, 0.3100



1.1126, 0.5735, 0.2933

Inverse Universe

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



21.5372, 0.6074, 0.3120



21.5346, 0.6076, 0.3121



41.0020, 0.1978, 0.2322



18.0510, 0.3260, 0.3239



11.2700, 0.6039, 0.3100



1.1126, 0.5735, 0.2933

Previews

White Background



This preview shows how the Yxy color 21.5358, 0.6074, 0.3120 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 21.5358, 0.6074, 0.3120 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 21.5358, 0.6074, 0.3120

Background



This preview shows how black text looks on a background with the Yxy color 21.5358, 0.6074, 0.3120.



This preview shows how white text looks on a background with the Yxy color 21.5358, 0.6074, 0.3120.

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

21.5358, 0.6074, 0.3120

Protanopia

21.9161, 0.3772, 0.4079

Deuteranopia

21.9872, 0.4537, 0.4467



Tritanopia

21.7012, 0.6325, 0.3330

Trichromacy



Original Color

21.5358, 0.6074, 0.3120



Protanomaly

16.4607, 0.4877, 0.3414



Deuteranomaly

17.3664, 0.5442, 0.3642



Tritanomaly

21.4827, 0.6284, 0.3275

Monochromacy



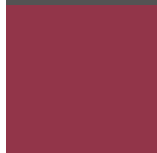
Original Color

21.5358, 0.6074, 0.3120



Achromatopsia

8.6500, 0.3127, 0.3290



Achromatomaly

9.1382, 0.4656, 0.2969

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.5358, 0.6074, 0.3120 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, 55)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 55)  
}
```

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, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 55) }
```

Border

The CSS property to change the border of an element to Yxy 21.5358, 0.6074, 0.3120 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, 55) }
```

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

```
.border{ border-color:rgb(255, 0, 55) }
```

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, 55) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 55);  
box-shadow:4px 4px 4px 4px rgb(255, 0, 55)  
}
```


Background

The CSS property to change the background color of an element to Yxy 21.5358, 0.6074, 0.3120 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, 55) }
```

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

```
.background{ background-color: rgb(255, 0,  
55) }
```

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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