

Converting Colors

$Y_{xy}(21.3630, 0.6274, 0.3230)$

Have a look what the booklet for
Yxy(21.3630, 0.6274, 0.3230)
contains.

Yxy(21.3643, 0.6272, 0.3229)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(21.3643, 0.6272, 0.3229)

Conversions

Conversions Part 1

Format	Color
Hex	FF0020
RGB	255, 0, 32
RGB Percent	100%, 0%, 13%
CMY	0.0000, 0.9994, 0.8746
CMYK	0.00, 1.00, 0.87, 0.00
HSL	353°, 100%, 50%
HSV	353°, 100%, 100%
XYZ	41.4980, 21.3643, 3.3016
YIQ	79.8930, 141.7080, 64.0120

Conversions

Conversions Part 2

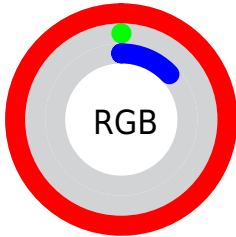
Format	Color
R_YB	255, 0, 32
Decimal	16711712
CIE Lab	53.35, 80.41, 57.20
CIE LCh	53, 98.676, 35.424
Yxy	21.3643, 0.6272, 0.3229
Android (android.graphics.Color)	4294901792 (0xFFFF0020)
YUV	79.8930, -23.6112, 153.5688
Hunter-Lab	46.2215, 79.3706, 28.1200

Details

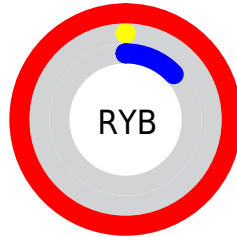
The Yxy color **21.3643, 0.6272, 0.3229** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **76.8513, 0.2359, 0.3692**, and the grayscale version is **8.0441, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.3886, 0.5317, 0.3440**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.3615, 0.6273, 0.3229**, and if you desaturate by 10%, it is **22.2509, 0.6029, 0.3173**.

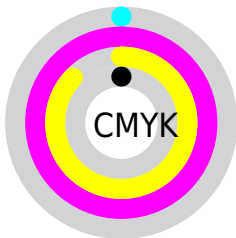
Distribution



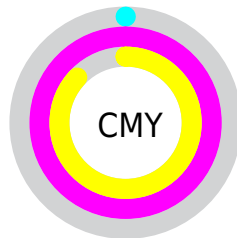
- Red (100%)
- Green (0%)
- Blue (13%)



- Red (100%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (87%)
- Black (0%)



- Cyan (0%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 21.3643, 0.6272, 0.3229 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 21.3643, 0.6272, 0.3229 by changing the saturation by 10% instead.


 21.3643, 0.6272,
0.3229


 21.3643, 0.6272,
0.3229


259.2083, 0.4624,
0.3490

 13.3906, 0.6637,
0.3076


 45.6930, 0.5692,
0.3391


 7.6980, 0.7127,
0.2865


 62.8168, 0.5465,
0.3431


 3.9023, 0.7528,
0.2472

 83.7594, 0.5271,
0.3457

 1.6191, 0.8062,
0.1938

 108.9052, 0.5104,
0.3473

 0.3704, 0.9002,
0.0998

 138.6386, 0.4959,
0.3483

 0.0000, 1.0000,
0.0000

 173.3440, 0.4833,


 0.0000, 0.0000,


0.3488

0.0000


 213.4057, 0.4722,
0.3490


 21.3643, 0.6272,
0.3229


 21.3643, 0.6272,
0.3229


 21.3615, 0.6273,
0.3229

 22.2509, 0.6029,
0.3173

 24.1697, 0.5665,
0.3130

 27.4171, 0.5230,
0.3109

 32.1775, 0.4783,
0.3111

 38.6061, 0.4371,
0.3130

■ 46.8387, 0.4014,
0.3159

■ 56.9974, 0.3718,
0.3192

■ 69.1932, 0.3476,
0.3226

■ 83.5291, 0.3282,
0.3259

Harmonies

Analogous

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



21.3643, 0.5460, 0.2449



21.3643, 0.6272, 0.3229



21.3643, 0.5812, 0.4157

Triad

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



21.3643, 0.6272, 0.3229



21.3643, 0.1993, 0.6119



21.3643, 0.1209, 0.1160

Complementary

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



21.3643, 0.6272, 0.3229



76.8513, 0.2359, 0.3692

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.



21.3643, 0.0819, 0.1342



21.3643, 0.6272, 0.3229



21.3643, 0.1085, 0.3771

Square

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



21.3643, 0.6272, 0.3229



21.3643, 0.3263, 0.6492



21.3643, 0.0759, 0.2045



21.3643, 0.2087, 0.1298

Rectangle

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



21.3643, 0.6272, 0.3229



21.3643, 0.5068, 0.4932



21.3643, 0.0759, 0.2045



21.3643, 0.1036, 0.1181

Sweetspot

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



21.3657, 0.6272, 0.3229



56.9333, 0.3719, 0.3192



22.5969, 0.2868, 0.1354



11.2185, 0.3837, 0.3178



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.



21.3657, 0.6272, 0.3229



21.3634, 0.6273, 0.3229



29.1922, 0.5821, 0.3759



18.0240, 0.3275, 0.3261



11.1743, 0.6247, 0.3215



1.0991, 0.6002, 0.3080

Inverse Universe

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



21.3657, 0.6272, 0.3229



21.3634, 0.6273, 0.3229



32.9033, 0.1894, 0.2017



18.0240, 0.3275, 0.3261



11.1743, 0.6247, 0.3215



1.0991, 0.6002, 0.3080

Previews

White Background



This preview shows how the Yxy color 21.3643, 0.6272, 0.3229 looks on a white background.

Color Contrast Check

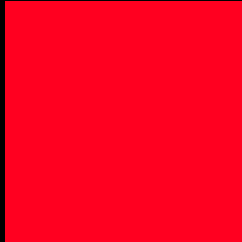
Large Text (above 18pt) WCAG AA ✓ Pass

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 21.3643, 0.6272, 0.3229 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 21.3643, 0.6272, 0.3229

Background



This preview shows how black text looks on a background with the Yxy color 21.3643, 0.6272, 0.3229.



This preview shows how white text looks on a background with the Yxy color 21.3643, 0.6272, 0.3229.

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

21.3643, 0.6272, 0.3229

Protanopia

21.8160, 0.4100, 0.4502

Deuteranopia

21.7056, 0.4715, 0.4638



Tritanopia

21.4954, 0.6347, 0.3343

Trichromacy



Original Color

21.3643, 0.6272, 0.3229



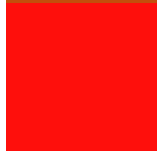
Protanomaly

16.4302, 0.5252, 0.3704



Deuteranomaly

17.2111, 0.5668, 0.3817



Tritanomaly

21.4390, 0.6337, 0.3305

Monochromacy



Original Color

21.3643, 0.6272, 0.3229



Achromatopsia

8.0220, 0.3127, 0.3290



Achromatomaly

8.6558, 0.4869, 0.3103

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.3643, 0.6272, 0.3229 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, 32)` looks like.

```
.text, #text, p{  
  color:rgb(255, 0, 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, 0, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 32) }
```

Border

The CSS property to change the border of an element to Yxy 21.3643, 0.6272, 0.3229 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, 32) }
```

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

```
.border{ border-color:rgb(255, 0, 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, 0, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 32);  
box-shadow:4px 4px 4px 4px rgb(255, 0, 32)  
}
```


Background

The CSS property to change the background color of an element to Yxy 21.3643, 0.6272, 0.3229 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, 32) }
```

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

```
.background{ background-color: rgb(255, 0,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor