

Converting Colors

$Y_{xy}(21.4832, 0.6131, 0.3151)$

Have a look what the booklet for
Yxy(21.4832, 0.6131, 0.3151)
contains.

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Color

Yxy(21.4818, 0.6135, 0.3153)

Conversions

Conversions Part 1

Format	Color
Hex	FF0031
RGB	255, 0, 49
RGB Percent	100%, 0%, 19%
CMY	0.0000, 1.0000, 0.8078
CMYK	0.00, 1.00, 0.81, 0.00
HSL	348°, 100%, 50%
HSV	348°, 100%, 100%
XYZ	41.7986, 21.4818, 4.8509
YIQ	81.8310, 136.2510, 69.2990

Conversions

Conversions Part 2

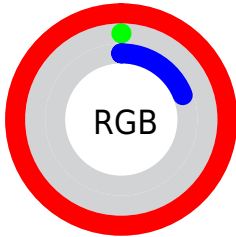
Format	Color
RYB	255, 0, 49
Decimal	16711729
CIELab	53.47, 80.78, 48.88
CIElCh	53, 94.414, 31.179
Yxy	21.4818, 0.6135, 0.3153
Android (android.graphics.Color)	4294901809 (0xFFFF0031)
YUV	81.8310, -16.1857, 151.8692
Hunter-Lab	46.3485, 79.8673, 26.2385

Details

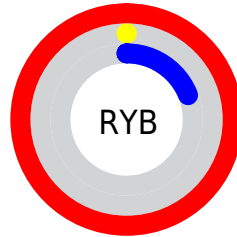
The Yxy color **21.4818, 0.6135, 0.3153** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **75.9754, 0.2424, 0.3927**, and the grayscale version is **8.4148, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.6539, 0.5135, 0.3305**, and **10.7023, 0.6373, 0.3285** is the 20% darker color. If you saturate the color by 10%, you get **21.4819, 0.6135, 0.3153**, and if you desaturate by 10%, it is **22.4142, 0.5855, 0.3074**.

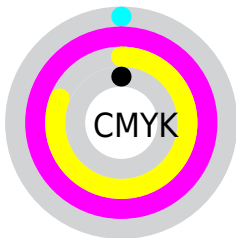
Distribution



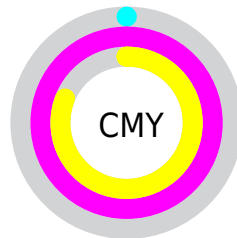
- Red (100%)
- Green (0%)
- Blue (19%)



- Red (100%)
- Yellow (0%)
- Blue (19%)



- Cyan (0%)
- Magenta (100%)
- Yellow (81%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 21.4818, 0.6135, 0.3153 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 21.4818, 0.6135, 0.3153 by changing the saturation by 10% instead.


 21.4818, 0.6135,
0.3153


 21.4818, 0.6135,
0.3153


259.8280, 0.4525,
0.3411


 13.4766, 0.6516,
0.3014


 45.8880, 0.5552,
0.3302


 7.7576, 0.6977,
0.2800


 63.0579, 0.5329,
0.3341

 3.9402, 0.7530,
0.2470

 84.0514, 0.5141,
0.3367

 1.6402, 0.8062,
0.1938

 109.2530, 0.4980,
0.3384

 0.3845, 0.8984,
0.1016

 139.0470, 0.4842,
0.3396

 0.0000, 1.0000,
0.0000

 173.8180, 0.4722,

 0.0000, 0.0000,

0.3404

0.0000

213.9502, 0.4617,
0.3408

■ 21.4818, 0.6135,
0.3153

■ 21.4818, 0.6135,
0.3153

■ 21.4819, 0.6135,
0.3153

■ 22.4142, 0.5855,
0.3074

■ 24.3695, 0.5484,
0.3018

■ 27.6416, 0.5066,
0.2997

■ 32.4126, 0.4651,
0.3008

■ 38.8355, 0.4272,
0.3040

■ 47.0444, 0.3945,
0.3086

■ 57.1595, 0.3673,
0.3138

■ 69.2907, 0.3451,
0.3191

■ 83.5394, 0.3272,
0.3242

Harmonies

Analogous

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



21.4818, 0.5150, 0.2381



21.4818, 0.6135, 0.3153



21.4818, 0.5850, 0.4026

Triad

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



21.4818, 0.6135, 0.3153



21.4818, 0.2225, 0.6173



21.4818, 0.1183, 0.1220

Complementary

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



21.4818, 0.6135, 0.3153



75.9754, 0.2424, 0.3927

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.



21.4818, 0.0847, 0.1462



21.4818, 0.6135, 0.3153



21.4818, 0.1247, 0.4085

Square

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



21.4818, 0.6135, 0.3153



21.4818, 0.3493, 0.6273



21.4818, 0.0839, 0.2268



21.4818, 0.1967, 0.1315

Rectangle

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



21.4818, 0.6135, 0.3153



21.4818, 0.5227, 0.4773



21.4818, 0.0839, 0.2268



21.4818, 0.1031, 0.1258

Sweetspot

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



21.4819, 0.6135, 0.3153



57.1595, 0.3673, 0.3138



20.0574, 0.2698, 0.1260



11.2704, 0.3782, 0.3116



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.



21.4819, 0.6135, 0.3153



26.4981, 0.5995, 0.3622



18.0441, 0.3264, 0.3245



11.2409, 0.6100, 0.3134



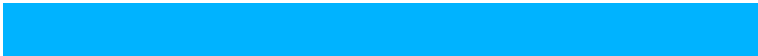
1.1088, 0.5806, 0.2972

Inverse Universe

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



21.4819, 0.6135, 0.3153



39.2601, 0.1961, 0.2260



18.0441, 0.3264, 0.3245



11.2409, 0.6100, 0.3134



1.1088, 0.5806, 0.2972

Previews

White Background



This preview shows how the Yxy color 21.4818, 0.6135, 0.3153 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 21.4818, 0.6135, 0.3153 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 21.4818, 0.6135, 0.3153

Background



This preview shows how black text looks on a background with the Yxy color 21.4818, 0.6135, 0.3153.



This preview shows how white text looks on a background with the Yxy color 21.4818, 0.6135, 0.3153.

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

21.4818, 0.6135, 0.3153

Protanopia

21.8850, 0.3871, 0.4207

Deuteranopia

22.0412, 0.4603, 0.4527



Tritanopia

21.6446, 0.6351, 0.3340

Trichromacy



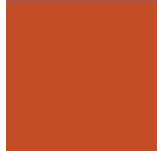
Original Color

21.4818, 0.6135, 0.3153



Protanomaly

16.3730, 0.4982, 0.3502



Deuteranomaly

17.3119, 0.5518, 0.3701



Tritanomaly

21.4286, 0.6319, 0.3291

Monochromacy



Original Color

21.4818, 0.6135, 0.3153



Achromatopsia

8.4376, 0.3127, 0.3290



Achromatomaly

8.9179, 0.4716, 0.3002

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.4818, 0.6135, 0.3153 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, 49)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 49)  
}
```

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, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 49) }
```

Border

The CSS property to change the border of an element to Yxy 21.4818, 0.6135, 0.3153 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, 49) }
```

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

```
.border{ border-color:rgb(255, 0, 49) }
```

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, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 49);  
box-shadow:4px 4px 4px 4px rgb(255, 0, 49)  
}
```

Background

The CSS property to change the background color of an element to Yxy 21.4818, 0.6135, 0.3153 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, 49) }
```

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

```
.background{ background-color: rgb(255, 0,  
49) }
```

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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