

# Converting Colors

$Y_{xy}(20.0572, 0.6334, 0.3351)$

Have a look what the booklet for  
Yxy(20.0572, 0.6334, 0.3351)  
contains.

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**Color**

**Yxy(20.1077, 0.6335, 0.3352)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F51900
RGB	245, 25, 0
RGB Percent	96%, 10%, 0%
CMY	0.0392, 0.9017, 1.0000
CMYK	0.00, 0.90, 1.00, 0.04
HSL	6°, 100%, 48%
HSV	6°, 100%, 96%
XYZ	38.0019, 20.1077, 1.8776
YIQ	87.9300, 139.1450, 38.8650

# Conversions

## Conversions Part 2

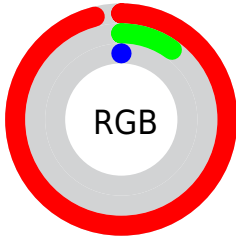
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	245, 28, 0
Decimal	16062720
CIE Lab	51.96, 75.42, 65.50
CIE LCh	52, 99.894, 40.972
Yxy	20.1077, 0.6335, 0.3352
Android (android.graphics.Color)	4294252800 (0xFFFF51900)
YUV	87.9300, -43.3495, 137.7504
Hunter-Lab	44.8416, 72.8004, 28.9065

# Details

The Yxy color **20.1077, 0.6335, 0.3352** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **57.7409, 0.2155, 0.2959**, and the grayscale version is **9.8243, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.8728, 0.5487, 0.3631**, and **9.4650, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **20.1090, 0.6335, 0.3352**, and if you desaturate by 10%, it is **21.5166, 0.6131, 0.3396**.

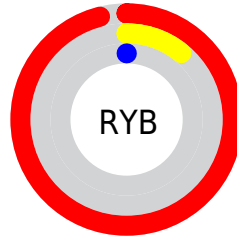
# Distribution



Red (96%)

Green (10%)

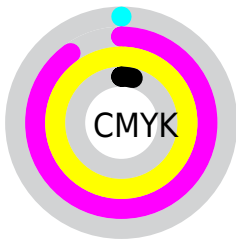
Blue (0%)



Red (96%)

Yellow (11%)

Blue (0%)

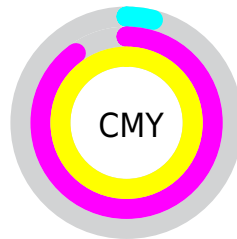


Cyan (0%)

Magenta (90%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (90%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.1077, 0.6335, 0.3352 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 20.1077, 0.6335, 0.3352 by changing the saturation by 10% instead.





 20.1077, 0.6335,  
0.3352

 20.1077, 0.6335,  
0.3352


 252.4976, 0.4686,  
0.3598


 12.4734, 0.6689,  
0.3189


 43.5977, 0.5772,  
0.3524


 7.0669, 0.7073,  
0.2927


 60.2221, 0.5546,  
0.3564

 3.5040, 0.7477,  
0.2523

 80.6120, 0.5350,  
0.3587

 1.4002, 0.8033,  
0.1967

 105.1518, 0.5180,  
0.3599

 0.2168, 0.9260,  
0.0740

 134.2258, 0.5032,  
0.3604


 0.0000, 1.0000,  
0.0000


 168.2186, 0.4902,


 0.0000, 0.0000,


0.3605


0.0000


 207.5143, 0.4788,  
0.3602


 20.1077, 0.6335,  
0.3352


 20.1077, 0.6335,  
0.3352


 20.1090, 0.6335,  
0.3352

 21.5166, 0.6131,  
0.3396

 23.8951, 0.5794,  
0.3432

 27.3881, 0.5365,  
0.3448

 32.1109, 0.4910,  
0.3445

 38.1642, 0.4479,  
0.3428

■ 45.6384, 0.4099,  
0.3403

■ 54.6158, 0.3779,  
0.3374

■ 65.1725, 0.3515,  
0.3344

■ 77.3794, 0.3301,  
0.3316

# Harmonies

## Analogous

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



20.1077, 0.5795, 0.2564



20.1077, 0.6335, 0.3352



20.1077, 0.5660, 0.4340

# Triad

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



20.1077, 0.6335, 0.3352



20.1077, 0.1734, 0.5863



20.1077, 0.1290, 0.1124

# Complementary

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



20.1077, 0.6335, 0.3352



57.7409, 0.2155, 0.2959

# 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.



20.1077, 0.0826, 0.1237



20.1077, 0.6335, 0.3352



20.1077, 0.0936, 0.3345

# Square

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



20.1077, 0.6335, 0.3352



20.1077, 0.2977, 0.6693



20.1077, 0.0706, 0.1813



20.1077, 0.2298, 0.1320



# Rectangle

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



20.1077, 0.6335, 0.3352



20.1077, 0.4830, 0.5170



20.1077, 0.0706, 0.1813



20.1077, 0.1088, 0.1125

# Sweetspot

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



20.1090, 0.6335, 0.3352



59.7499, 0.3781, 0.3374



24.6045, 0.3483, 0.1692



11.8565, 0.3909, 0.3386



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.



20.1090, 0.6335, 0.3352



22.0027, 0.6337, 0.3351



40.2770, 0.5137, 0.4303



16.7552, 0.3291, 0.3315



10.9251, 0.6319, 0.3364

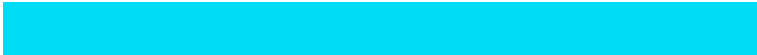


1.0494, 0.6155, 0.3495



# Inverse Universe

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



57.7409, 0.2155, 0.2959



63.2102, 0.2155, 0.2959



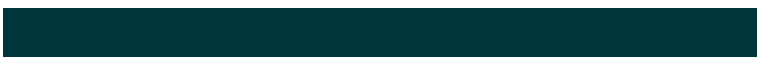
15.3269, 0.1676, 0.1232



18.4510, 0.2981, 0.3265



31.2279, 0.2157, 0.2965



2.8265, 0.2169, 0.3009



# Previews

## White Background



This preview shows how the Yxy color 20.1077, 0.6335, 0.3352 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 20.1077, 0.6335, 0.3352 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 20.1077, 0.6335, 0.3352**

## **Background**



This preview shows how black text looks on a background with the Yxy color 20.1077, 0.6335, 0.3352.



This preview shows how white text looks on a background with the Yxy color 20.1077, 0.6335, 0.3352.

# 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

20.1077, 0.6335, 0.3352

### Protanopia

20.3416, 0.4279, 0.4732

### Deuteranopia

20.3618, 0.4690, 0.4658



## Tritanopia

20.1394, 0.6293, 0.3328

# Trichromacy



## Original Color

20.1077, 0.6335, 0.3352

## Protanomaly

16.6602, 0.5324, 0.4021

## Deuteranomaly

17.3158, 0.5556, 0.3970

## Tritanomaly

20.1275, 0.6309, 0.3337

# Monochromacy



## Original Color

20.1077, 0.6335, 0.3352

## Achromatopsia

9.7587, 0.3127, 0.3290

## Achromatomaly

10.0859, 0.4874, 0.3442

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.1077, 0.6335, 0.3352 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(245, 25, 0)` looks like.

```
.text, #text, p{  
    color:rgb(245, 25, 0)  
}
```

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(245, 25, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 25, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 20.1077, 0.6335, 0.3352 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(245, 25, 0) }
```

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

```
.border{ border-color:rgb(245, 25, 0) }
```

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

Here you see how a box with a 4 pixel rgb(245, 25, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 25, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 25, 0);  
box-shadow:4px 4px 4px 4px rgb(245, 25, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 20.1077, 0.6335, 0.3352 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 25, 0) }
```

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

```
.background{ background-color: rgb(245, 25,  
0) }
```

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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