

# Converting Colors

$Y_{xy}(20.3583, 0.6396, 0.3304)$

Have a look what the booklet for  
 $Y_{xy}(20.3583, 0.6396, 0.3304)$   
contains.

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**Color**

**Yxy(20.3891, 0.6395, 0.3304)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FA0300
RGB	250, 3, 0
RGB Percent	98%, 1%, 0%
CMY	0.0195, 0.9888, 0.9997
CMYK	0.00, 0.99, 1.00, 0.02
HSL	1°, 100%, 49%
HSV	1°, 100%, 98%
XYZ	39.4638, 20.3891, 1.8575
YIQ	76.5110, 148.1750, 51.4310

# Conversions

## Conversions Part 2

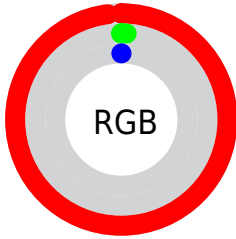
Format	Color
<a href="#">RYB</a>	<a href="#">250, 3, 0</a>
Decimal	<a href="#">16384768</a>
CIELab	<a href="#">52.27, 78.73, 66.23</a>
CIELCh	<a href="#">52, 102.879, 40.072</a>
Yxy	<a href="#">20.3891, 0.6395, 0.3304</a>
Android (android.graphics.Color)	<a href="#">4294574848</a> (0xFFFA0300)
YUV	<a href="#">76.5110, -37.7199, 152.1499</a>
Hunter-Lab	<a href="#">45.1543, 76.9847, 29.1690</a>

# Details

The Yxy color **20.3891, 0.6395, 0.3304** 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 **73.5744, 0.2237, 0.3253**, and the grayscale version is **7.3621, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.9312, 0.5534, 0.3586**, and **9.9451, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **20.3888, 0.6395, 0.3304**, and if you desaturate by 10%, it is **21.2094, 0.6239, 0.3307**.

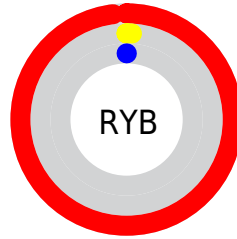
# Distribution



Red (98%)

Green (1%)

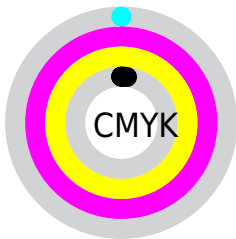
Blue (0%)



Red (98%)

Yellow (1%)

Blue (0%)

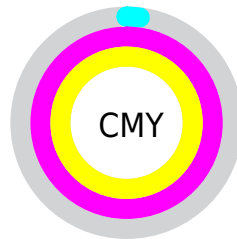


Cyan (0%)

Magenta (99%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (99%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 20.3891, 0.6395, 0.3304 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 20.3891, 0.6395, 0.3304 by changing the saturation by 10% instead.





 20.3891, 0.6395,  
0.3304


 20.3891, 0.6395,  
0.3304


 254.0138, 0.4724,  
0.3582


 12.6782, 0.6750,  
0.3135

 44.0686, 0.5828,  
0.3488

 7.2073, 0.7134,  
0.2866


 60.8060, 0.5599,  
0.3532

 3.5921, 0.7539,  
0.2461

 81.3209, 0.5400,  
0.3559

 1.4481, 0.8091,  
0.1909

 105.9979, 0.5227,  
0.3575

 0.2518, 0.9219,  
0.0781

 135.2213, 0.5076,  
0.3582

 0.0000, 1.0000,  
0.0000


 169.3755, 0.4944,


 0.0000, 0.0000,

0.3585

0.0000

 208.8449, 0.4828,  
0.3585

 20.3891, 0.6395,  
0.3304


 20.3891, 0.6395,  
0.3304

 20.3888, 0.6395,  
0.3304

 21.2094, 0.6239,  
0.3307

 23.0421, 0.5928,  
0.3311

 26.1484, 0.5493,  
0.3312

 30.7032, 0.5011,  
0.3311

 36.8537, 0.4548,  
0.3309

■ 44.7294, 0.4141,  
0.3305

■ 54.4462, 0.3801,  
0.3301

■ 66.1103, 0.3525,  
0.3297

■ 79.8195, 0.3303,  
0.3293

# Harmonies

## Analogous

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



20.3891, 0.5814, 0.2519



20.3891, 0.6395, 0.3304



20.3891, 0.5712, 0.4288

# Triad

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



20.3891, 0.6395, 0.3304



20.3891, 0.1728, 0.6008



20.3891, 0.1241, 0.1093

# Complementary

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



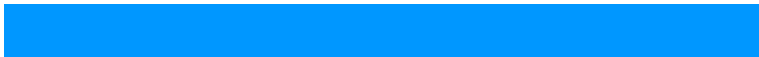
20.3891, 0.6395, 0.3304



73.5744, 0.2237, 0.3253

# 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.



20.3891, 0.0789, 0.1215



20.3891, 0.6395, 0.3304



20.3891, 0.0913, 0.3406

# Square

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



20.3891, 0.6395, 0.3304



20.3891, 0.2986, 0.6750



20.3891, 0.0676, 0.1809



20.3891, 0.2238, 0.1281



# Rectangle

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



20.3891, 0.6395, 0.3304



20.3891, 0.4870, 0.5130



20.3891, 0.0676, 0.1809



20.3891, 0.1044, 0.1097

# Sweetspot

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



20.3904, 0.6395, 0.3304



56.8756, 0.3802, 0.3301



27.2335, 0.3209, 0.1542



11.2049, 0.3938, 0.3303



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.



20.3904, 0.6395, 0.3304



21.3216, 0.6395, 0.3304



35.0076, 0.5434, 0.4067



17.2561, 0.3294, 0.3293



10.8261, 0.6393, 0.3306



1.0132, 0.6373, 0.3322



# Inverse Universe

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



73.5744, 0.2237, 0.3253



76.9434, 0.2237, 0.3253



21.5831, 0.1763, 0.1547



19.5735, 0.2980, 0.3287



39.0326, 0.2237, 0.3254



3.6255, 0.2238, 0.3258



# Previews

## White Background



This preview shows how the Yxy color 20.3891, 0.6395, 0.3304 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



## 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 20.3891, 0.6395, 0.3304**

## Background



This preview shows how black text looks on a background with the Yxy color 20.3891, 0.6395, 0.3304.



This preview shows how white text looks on a background with the Yxy color 20.3891, 0.6395, 0.3304.

# 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

20.3891, 0.6395, 0.3304

### Protanopia

20.7768, 0.4287, 0.4718

### Deuteranopia

20.8039, 0.4698, 0.4651



## Tritanopia

20.5693, 0.6344, 0.3345

# Trichromacy



## Original Color

20.3891, 0.6395, 0.3304



## Protanomaly

15.7591, 0.5474, 0.3899



## Deuteranomaly

16.5142, 0.5698, 0.3858



## Tritanomaly

20.5103, 0.6367, 0.3327

# Monochromacy



## Original Color

20.3891, 0.6395, 0.3304



## Achromatopsia

7.2272, 0.3127, 0.3290



## Achromatomaly

7.8990, 0.5148, 0.3312

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.3891, 0.6395, 0.3304 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(250, 3, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 3, 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(250, 3, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 3, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 20.3891, 0.6395, 0.3304 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(250, 3, 0) }
```

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

```
.border{ border-color:rgb(250, 3, 0) }
```

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

Here you see how a box with a 4 pixel rgb(250, 3, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 3, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(250, 3, 0); box-shadow:4px  
4px 4px 4px rgb(250, 3, 0) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.3891, 0.6395, 0.3304 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 3, 0) }
```

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

```
.background{ background-color: rgb(250, 3,  
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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