

# Converting Colors

$Y_{xy}(20.2211, 0.6277, 0.3398)$

Have a look what the booklet for  
Yxy(20.2211, 0.6277, 0.3398)  
contains.

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**Color**

**Yxy(20.2004, 0.6275, 0.3400)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F22500
RGB	242, 37, 0
RGB Percent	95%, 15%, 0%
CMY	0.0509, 0.8549, 1.0000
CMYK	0.00, 0.85, 1.00, 0.05
HSL	9°, 100%, 47%
HSV	9°, 100%, 95%
XYZ	37.2816, 20.2004, 1.9309
YIQ	94.0770, 134.0570, 31.9530

# Conversions

## Conversions Part 2

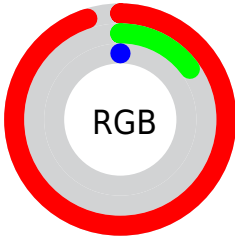
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 44, 0
Decimal	15869184
CIE <sub>Lab</sub>	52.06, 72.63, 65.19
CIE <sub>LCh</sub>	52, 97.600, 41.912
Yxy	20.2004, 0.6275, 0.3400
Android (android.graphics.Color)	4294059264 (0xFFFF22500)
YUV	94.0770, -46.3800, 129.7285
Hunter-Lab	44.9449, 69.4117, 28.9142

# Details

The Yxy color **20.2004, 0.6275, 0.3400** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **50.0792, 0.2108, 0.2788**, and the grayscale version is **11.3009, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.8838, 0.5431, 0.3670**, and **9.1140, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **20.2019, 0.6275, 0.3400**, and if you desaturate by 10%, it is **21.9216, 0.6048, 0.3464**.

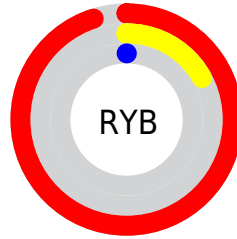
# Distribution



Red (95%)

Green (15%)

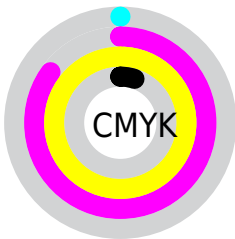
Blue (0%)



Red (95%)

Yellow (17%)

Blue (0%)

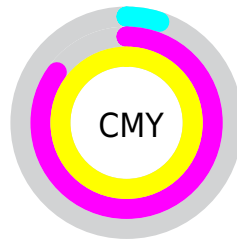


Cyan (0%)

Magenta (85%)

Yellow (100%)

Black (5%)



Cyan (5%)

Magenta (85%)

Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 20.2004, 0.6275, 0.3400 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 20.2004, 0.6275, 0.3400 by changing the saturation by 10% instead.




 20.2004, 0.6275,  
0.3400


 20.2004, 0.6275,  
0.3400


 252.9979, 0.4654,  
0.3613


 12.5408, 0.6623,  
0.3244


 43.7529, 0.5720,  
0.3559


 7.1131, 0.7007,  
0.2993


 60.4146, 0.5498,  
0.3595

 3.5329, 0.7405,  
0.2595


 80.8458, 0.5305,  
0.3614

 1.4159, 0.7958,  
0.2042

 105.4309, 0.5138,  
0.3623

 0.2284, 0.9190,  
0.0810

 134.5542, 0.4993,  
0.3625


 0.0000, 1.0000,  
0.0000

 168.6003, 0.4866,

 0.0000, 0.0000,


0.3624


0.0000

 207.9534, 0.4753,  
0.3619


 20.2004, 0.6275,  
0.3400


 20.2004, 0.6275,  
0.3400


 20.2019, 0.6275,  
0.3400

 21.9216, 0.6048,  
0.3464

 24.5445, 0.5706,  
0.3511

 28.1842, 0.5288,  
0.3529

 32.9326, 0.4851,  
0.3521

 38.8710, 0.4439,  
0.3494

■ 46.0729, 0.4075,  
0.3456

■ 54.6059, 0.3766,  
0.3414

■ 64.5329, 0.3510,  
0.3371

■ 75.9125, 0.3300,  
0.3329

# Harmonies

## Analogous

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



20.2004, 0.5776, 0.2609



20.2004, 0.6275, 0.3400



20.2004, 0.5607, 0.4393

# Triad

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



20.2004, 0.6275, 0.3400



20.2004, 0.1738, 0.5720



20.2004, 0.1340, 0.1155

# Complementary

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



20.2004, 0.6275, 0.3400



50.0792, 0.2108, 0.2788

# 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.



20.2004, 0.0864, 0.1260



20.2004, 0.6275, 0.3400



20.2004, 0.0958, 0.3286

# Square

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



20.2004, 0.6275, 0.3400



20.2004, 0.2967, 0.6634



20.2004, 0.0736, 0.1817



20.2004, 0.2359, 0.1360



# Rectangle

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



20.2004, 0.6275, 0.3400



20.2004, 0.4789, 0.5211



20.2004, 0.0736, 0.1817



20.2004, 0.1133, 0.1154

# Sweetspot

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



20.2019, 0.6275, 0.3400



61.4061, 0.3769, 0.3414



23.3209, 0.3637, 0.1777



12.2348, 0.3893, 0.3433



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.



20.2019, 0.6275, 0.3400



22.7100, 0.6278, 0.3397



43.0965, 0.4994, 0.4417



16.1488, 0.3290, 0.3327



10.9748, 0.6254, 0.3417



1.0298, 0.6033, 0.3592

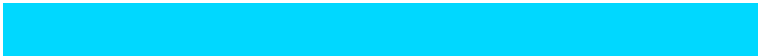


# Inverse Universe

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



50.0792, 0.2108, 0.2788



56.3397, 0.2107, 0.2787



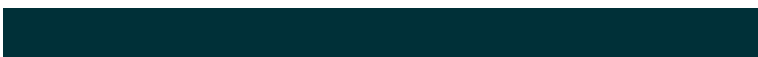
12.8617, 0.1637, 0.1094



17.4932, 0.2981, 0.3253



27.0638, 0.2110, 0.2797



2.3616, 0.2130, 0.2868



# Previews

## White Background



This preview shows how the Yxy color 20.2004, 0.6275, 0.3400 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

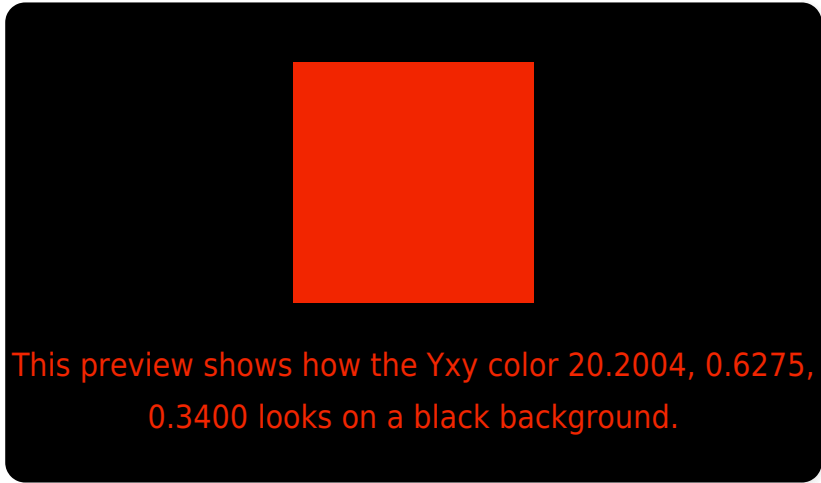
Any Text WCAG AA ✗ Fail

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 20.2004, 0.6275, 0.3400**

## **Background**



This preview shows how black text looks on a background with the Yxy color 20.2004, 0.6275, 0.3400.



This preview shows how white text looks on a background with the Yxy color 20.2004, 0.6275, 0.3400.

# 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

20.2004, 0.6275, 0.3400

### Protanopia

20.3364, 0.4285, 0.4740

### Deuteranopia

20.3618, 0.4690, 0.4658



## Tritanopia

20.1836, 0.6149, 0.3311

# Trichromacy



## Original Color

20.2004, 0.6275, 0.3400

## Protanomaly

17.2228, 0.5257, 0.4085

## Deuteranomaly

17.8361, 0.5487, 0.4025

## Tritanomaly

20.1895, 0.6213, 0.3356

# Monochromacy



## Original Color

20.2004, 0.6275, 0.3400

## Achromatopsia

11.1932, 0.3127, 0.3290

## Achromatomaly

11.3872, 0.4748, 0.3508

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.2004, 0.6275, 0.3400 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(242, 37, 0)` looks like.

```
.text, #text, p{  
    color:rgb(242, 37, 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(242, 37, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 37, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 20.2004, 0.6275, 0.3400 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(242, 37, 0) }
```

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

```
.border{ border-color:rgb(242, 37, 0) }
```

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

Here you see how a box with a 4 pixel rgb(242, 37, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 37, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 37, 0);  
box-shadow:4px 4px 4px 4px rgb(242, 37, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 20.2004, 0.6275, 0.3400 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 37, 0) }
```

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

```
.background{ background-color: rgb(242, 37,  
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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