

# Converting Colors

$Y_{xy}(22.9635, 0.6257, 0.3414)$

Have a look what the booklet for  
Yxy(22.9635, 0.6257, 0.3414)  
contains.

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**Color**

**Yxy(22.9878, 0.6255, 0.3415)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF2B00
RGB	255, 43, 0
RGB Percent	100%, 17%, 0%
CMY	0.0000, 0.8313, 0.9995
CMYK	0.00, 0.83, 1.00, 0.00
HSL	10°, 100%, 50%
HSV	10°, 100%, 100%
XYZ	42.1050, 22.9878, 2.2214
YIQ	101.4860, 140.1550, 31.5710

# Conversions

## Conversions Part 2

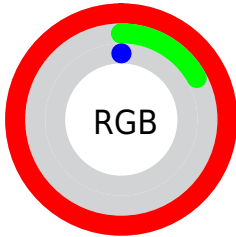
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 52, 0
Decimal	16722688
CIE <sub>Lab</sub>	55.06, 74.86, 67.87
CIE <sub>LCh</sub>	55, 101.047, 42.194
Yxy	22.9878, 0.6255, 0.3415
Android (android.graphics.Color)	4294912768 (0xFFFF2B00)
YUV	101.4860, -50.0326, 134.6318
Hunter-Lab	47.9456, 72.8510, 30.8149

# Details

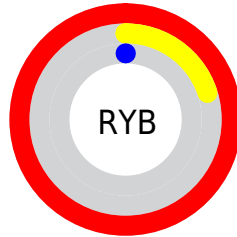
The Yxy color **22.9878, 0.6255, 0.3415** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **54.3624, 0.2093, 0.2733**, and the grayscale version is **13.2570, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.9658, 0.5367, 0.3704**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **22.9813, 0.6256, 0.3415**, and if you desaturate by 10%, it is **25.0248, 0.6026, 0.3485**.

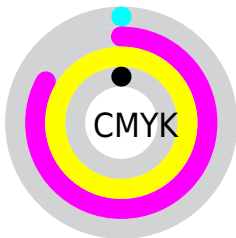
# Distribution



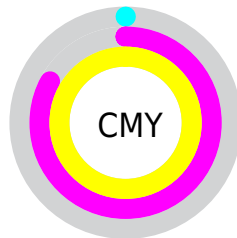
- Red (100%)
- Green (17%)
- Blue (0%)



- Red (100%)
- Yellow (20%)
- Blue (0%)



- Cyan (0%)
- Magenta (83%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (83%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.9878, 0.6255, 0.3415 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 22.9878, 0.6255, 0.3415 by changing the saturation by 10% instead.




 22.9878, 0.6255,  
0.3415


 22.9878, 0.6255,  
0.3415

267.6623, 0.4679,  
0.3621


 14.5845, 0.6580,  
0.3267


 48.3733, 0.5723,  
0.3566

 8.5283, 0.6958,  
0.3042

 66.1243, 0.5507,  
0.3601


 4.4348, 0.7325,  
0.2675

 87.7599, 0.5320,  
0.3620

 1.9196, 0.7827,  
0.2173

 113.6647, 0.5157,  
0.3629

 0.5601, 0.8605,  
0.1395

 144.2229, 0.5014,  
0.3632

 0.0000, 1.0000,  
0.0000


 179.8190, 0.4888,

 0.0000, 0.0000,


0.3630


0.0000


 220.8373, 0.4777,  
0.3626


 22.9878, 0.6255,  
0.3415


 22.9878, 0.6255,  
0.3415


 22.9813, 0.6256,  
0.3415

 25.0248, 0.6026,  
0.3485

 28.0652, 0.5685,  
0.3536

 32.2310, 0.5270,  
0.3555

 37.6207, 0.4838,  
0.3545

 44.3218, 0.4431,  
0.3515

■ 52.4135, 0.4070,  
0.3473

■ 61.9688, 0.3764,  
0.3426

■ 73.0554, 0.3509,  
0.3379

■ 85.7369, 0.3299,  
0.3333

# Harmonies

## Analogous

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



22.9878, 0.5768, 0.2624



22.9878, 0.6255, 0.3415



22.9878, 0.5591, 0.4409

# Triad

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



22.9878, 0.6255, 0.3415



22.9878, 0.1741, 0.5675



22.9878, 0.1356, 0.1166

# Complementary

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



22.9878, 0.6255, 0.3415



54.3624, 0.2093, 0.2733

# 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.



22.9878, 0.0876, 0.1268



22.9878, 0.6255, 0.3415



22.9878, 0.0967, 0.3270

# Square

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



22.9878, 0.6255, 0.3415



22.9878, 0.2964, 0.6612



22.9878, 0.0746, 0.1820



22.9878, 0.2378, 0.1373



# Rectangle

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



22.9878, 0.6255, 0.3415



22.9878, 0.4778, 0.5222



22.9878, 0.0746, 0.1820



22.9878, 0.1148, 0.1163

# Sweetspot

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



22.9890, 0.6255, 0.3415



61.9192, 0.3765, 0.3427



26.0424, 0.3692, 0.1807



12.3524, 0.3888, 0.3447



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.



22.9890, 0.6255, 0.3415



22.9813, 0.6256, 0.3415



50.0251, 0.4950, 0.4452



18.4808, 0.3290, 0.3331



12.1517, 0.6234, 0.3432

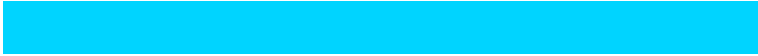


1.3148, 0.6040, 0.3586



# Inverse Universe

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



54.3624, 0.2093, 0.2733



54.3513, 0.2093, 0.2733



13.7307, 0.1624, 0.1047



19.9304, 0.2980, 0.3249



28.5917, 0.2095, 0.2743



2.9156, 0.2115, 0.2812



# Previews

## White Background



This preview shows how the Yxy color 22.9878, 0.6255, 0.3415 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

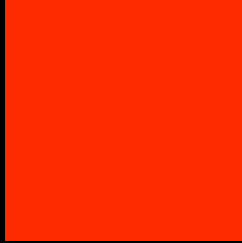
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 22.9878, 0.6255, 0.3415 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 22.9878, 0.6255, 0.3415**

## Background



This preview shows how black text looks on a background with the Yxy color 22.9878, 0.6255, 0.3415.



This preview shows how white text looks on a background with the Yxy color 22.9878, 0.6255, 0.3415.

# 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

22.9878, 0.6255, 0.3415

### Protanopia

23.2635, 0.4294, 0.4750

### Deuteranopia

23.1372, 0.4701, 0.4649



## Tritanopia

22.9924, 0.6099, 0.3308

# Trichromacy



## Original Color

22.9878, 0.6255, 0.3415

## Protanomaly

19.8562, 0.5249, 0.4100

## Deuteranomaly

20.5079, 0.5466, 0.4042

## Tritanomaly

22.9861, 0.6180, 0.3363

# Monochromacy



## Original Color

22.9878, 0.6255, 0.3415

## Achromatopsia

13.2868, 0.3127, 0.3290

## Achromatomaly

13.5356, 0.4712, 0.3544

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.9878, 0.6255, 0.3415 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, 43, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 43, 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(255, 43, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 43, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 22.9878, 0.6255, 0.3415 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, 43, 0) }
```

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

```
.border{ border-color:rgb(255, 43, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 43, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 43, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 43, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 43, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 22.9878, 0.6255, 0.3415 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 43, 0) }
```

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

```
.background{ background-color: rgb(255, 43,  
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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