

# Converting Colors

$Y_{xy}(23.2843, 0.6219, 0.3426)$

Have a look what the booklet for  
Yxy(23.2843, 0.6219, 0.3426)  
contains.

<b>Yxy(23.3040, 0.6218, 0.3427)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(23.3040, 0.6218, 0.3427)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF2F05
RGB	255, 47, 5
RGB Percent	100%, 18%, 2%
CMY	0.0000, 0.8156, 0.9803
CMYK	0.00, 0.82, 0.98, 0.00
HSL	10°, 100%, 51%
HSV	10°, 98%, 100%
XYZ	42.2831, 23.3040, 2.4140
YIQ	104.4040, 137.4500, 31.0340

# Conversions

## Conversions Part 2

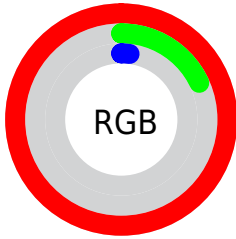
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 55, 5
Decimal	16723717
CIE Lab	55.38, 74.00, 66.89
CIE LCh	55, 99.753, 42.111
Yxy	23.3040, 0.6218, 0.3427
Android (android.graphics.Color)	4294913797 (0xFFFF2F05)
YUV	104.4040, -49.0062, 132.0727
Hunter-Lab	48.2742, 71.8673, 30.8270

# Details

The Yxy color **23.3040, 0.6218, 0.3427** 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 **54.8417, 0.2098, 0.2746**, and the grayscale version is **14.0691, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.4404, 0.5324, 0.3704**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **22.9753, 0.6256, 0.3414**, and if you desaturate by 10%, it is **25.5194, 0.5969, 0.3497**.

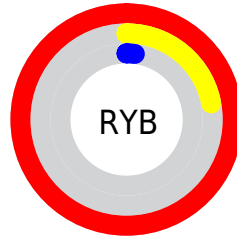
# Distribution



Red (100%)

Green (18%)

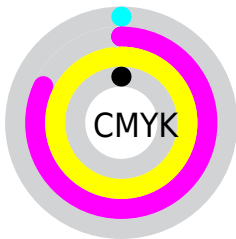
Blue (2%)



Red (100%)

Yellow (22%)

Blue (2%)

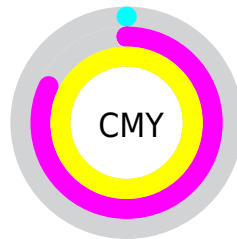


Cyan (0%)

Magenta (82%)

Yellow (98%)

Black (0%)



Cyan (0%)

Magenta (82%)


Yellow (98%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.3040, 0.6218, 0.3427 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 23.3040, 0.6218, 0.3427 by changing the saturation by 10% instead.





 23.3040, 0.6218,  
0.3427


 23.3040, 0.6218,  
0.3427


269.2826, 0.4656,  
0.3617


 14.8181, 0.6540,  
0.3284


 48.8920, 0.5688,  
0.3571


 8.6919, 0.6930,  
0.3070


 66.7630, 0.5475,  
0.3602


 4.5407, 0.7291,  
0.2709

 88.5311, 0.5289,  
0.3620

 1.9804, 0.7787,  
0.2213

 114.5807, 0.5128,  
0.3628

 0.5961, 0.8541,  
0.1459

 145.2963, 0.4987,  
0.3630


 0.0000, 1.0000,  
0.0000

 181.0622, 0.4863,

 0.0000, 0.0000,


0.3628


0.0000


 222.2628, 0.4754,  
0.3623


 23.3040, 0.6218,  
0.3427


 23.3040, 0.6218,  
0.3427


 22.9753, 0.6256,  
0.3414

 25.5194, 0.5969,  
0.3497

 28.7664, 0.5609,  
0.3541

 33.1593, 0.5187,  
0.3554

 38.7942, 0.4757,  
0.3540

 45.7569, 0.4357,  
0.3507

■ 54.1254, 0.4007,  
0.3464

■ 63.9716, 0.3711,  
0.3417

■ 75.3625, 0.3465,  
0.3369

■ 88.3609, 0.3263,  
0.3324

# Harmonies

## Analogous

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



23.3040, 0.5723, 0.2636



23.3040, 0.6218, 0.3427



23.3040, 0.5578, 0.4414

# Triad

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



23.3040, 0.6218, 0.3427



23.3040, 0.1770, 0.5632



23.3040, 0.1374, 0.1186

# Complementary

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



23.3040, 0.6218, 0.3427



54.8417, 0.2098, 0.2746

# 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.



23.3040, 0.0896, 0.1291



23.3040, 0.6218, 0.3427



23.3040, 0.0994, 0.3282

# Square

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



23.3040, 0.6218, 0.3427



23.3040, 0.2988, 0.6559



23.3040, 0.0768, 0.1845



23.3040, 0.2387, 0.1392



# Rectangle

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



23.3040, 0.6218, 0.3427



23.3040, 0.4783, 0.5217



23.3040, 0.0768, 0.1845



23.3040, 0.1167, 0.1185

# Sweetspot

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



23.3055, 0.6218, 0.3427



62.9479, 0.3737, 0.3422



26.1896, 0.3680, 0.1807



12.5484, 0.3860, 0.3442



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.



23.3055, 0.6218, 0.3427



22.9762, 0.6256, 0.3414



50.6517, 0.4927, 0.4460



18.4800, 0.3290, 0.3331



12.1489, 0.6234, 0.3432

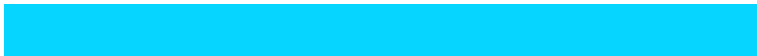


1.3144, 0.6041, 0.3585



# Inverse Universe

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



54.8417, 0.2098, 0.2746



54.3869, 0.2093, 0.2734



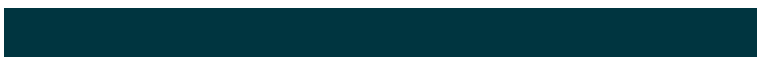
14.2900, 0.1637, 0.1081



19.9313, 0.2980, 0.3249



28.6101, 0.2096, 0.2744



2.9172, 0.2115, 0.2813



# Previews

## White Background



This preview shows how the Yxy color 23.3040, 0.6218, 0.3427 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 23.3040, 0.6218, 0.3427 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 23.3040, 0.6218, 0.3427**

## Background



This preview shows how black text looks on a background with the Yxy color 23.3040, 0.6218, 0.3427.



This preview shows how white text looks on a background with the Yxy color 23.3040, 0.6218, 0.3427.

# 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

23.3040, 0.6218, 0.3427

### Protanopia

23.3580, 0.4306, 0.4742

### Deuteranopia

23.2465, 0.4713, 0.4640



## Tritanopia

23.3186, 0.6040, 0.3303

# Trichromacy



## Original Color

23.3040, 0.6218, 0.3427

## Protanomaly

20.2520, 0.5210, 0.4116

## Deuteranomaly

20.8331, 0.5454, 0.4042

## Tritanomaly

23.3077, 0.6130, 0.3366

# Monochromacy



## Original Color

23.3040, 0.6218, 0.3427

## Achromatopsia

13.8432, 0.3127, 0.3290

## Achromatomaly

13.9748, 0.4655, 0.3529

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.3040, 0.6218, 0.3427 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, 47, 5)` looks like.

```
.text, #text, p{  
    color:rgb(255, 47, 5)  
}
```

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, 47, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 47, 5) }
```

## Border

The CSS property to change the border of an element to Yxy 23.3040, 0.6218, 0.3427 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, 47, 5) }
```

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

```
.border{ border-color:rgb(255, 47, 5) }
```

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

Here you see how a box with a 4 pixel rgb(255, 47, 5) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 47, 5); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 47, 5);  
box-shadow:4px 4px 4px 4px rgb(255, 47, 5)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 23.3040, 0.6218, 0.3427 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 47, 5) }
```

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

```
.background{ background-color: rgb(255, 47,  
5) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor