

# Converting Colors

$Yxy(22.5245, 0.6268, 0.3369)$

Have a look what the booklet for  
Yxy(22.5245, 0.6268, 0.3369)  
contains.

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**Color**

**Yxy(22.5437, 0.6267, 0.3370)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF240A
RGB	255, 36, 10
RGB Percent	100%, 14%, 4%
CMY	0.0000, 0.8586, 0.9609
CMYK	0.00, 0.86, 0.96, 0.00
HSL	6°, 100%, 52%
HSV	6°, 96%, 100%
XYZ	41.9233, 22.5437, 2.4283
YIQ	98.5170, 138.8700, 38.3420

# Conversions

## Conversions Part 2

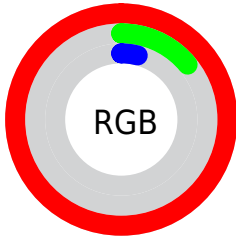
Format	Color
R <sub>Y</sub> B	255, 39, 10
Decimal	16720906
CIE Lab	54.60, 76.30, 65.43
CIE LCh	55, 100.510, 40.613
Yxy	22.5437, 0.6267, 0.3370
Android (android.graphics.Color)	4294910986 (0xFFFF240A)
YUV	98.5170, -43.6389, 137.2356
Hunter-Lab	47.4802, 74.5185, 30.2039

# Details

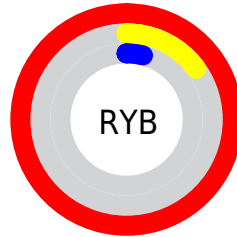
The Yxy color **22.5437, 0.6267, 0.3370** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **63.2760, 0.2159, 0.2959**, and the grayscale version is **12.4420, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.1570, 0.5373, 0.3641**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **22.0483, 0.6333, 0.3354**, and if you desaturate by 10%, it is **24.4939, 0.6013, 0.3417**.

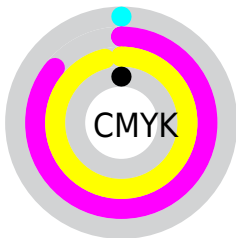
# Distribution



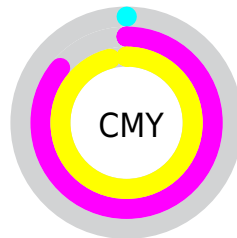
- Red (100%)
- Green (14%)
- Blue (4%)



- Red (100%)
- Yellow (15%)
- Blue (4%)



- Cyan (0%)
- Magenta (86%)
- Yellow (96%)
- Black (0%)




- Cyan (0%)
- Magenta (86%)
- Yellow (96%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.5437, 0.6267, 0.3370 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 22.5437, 0.6267, 0.3370 by changing the saturation by 10% instead.





 22.5437, 0.6267,  
0.3370


 22.5437, 0.6267,  
0.3370


265.3726, 0.4669,  
0.3590


 14.2569, 0.6600,  
0.3219


 47.6430, 0.5722,  
0.3525

 8.2996, 0.7004,  
0.2996


 65.2243, 0.5503,  
0.3560

 4.2872, 0.7378,  
0.2622

 86.6726, 0.5314,  
0.3581

 1.8355, 0.7890,  
0.2110

 112.3723, 0.5149,  
0.3592

 0.5092, 0.8705,  
0.1295

 142.7077, 0.5005,  
0.3597


 0.0000, 1.0000,  
0.0000

 178.0633, 0.4879,

 0.0000, 0.0000,


0.3597


0.0000


 218.8235, 0.4768,  
0.3594


 22.5437, 0.6267,  
0.3370

 22.5437, 0.6267,  
0.3370


 22.0483, 0.6333,  
0.3354

 24.4939, 0.6013,  
0.3417

 27.5731, 0.5633,  
0.3447

 31.9213, 0.5188,  
0.3455

 37.6570, 0.4737,  
0.3445

 44.8848, 0.4324,  
0.3424

53.6994, 0.3968,  
0.3396

64.1877, 0.3670,  
0.3365

76.4300, 0.3427,  
0.3335

90.5016, 0.3229,  
0.3306

# Harmonies

## Analogous

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



22.5437, 0.5704, 0.2582



22.5437, 0.6267, 0.3370



22.5437, 0.5650, 0.4350

# Triad

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



22.5437, 0.6267, 0.3370



22.5437, 0.1796, 0.5792



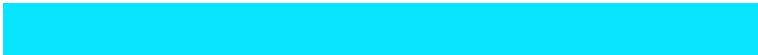
22.5437, 0.1318, 0.1162

# Complementary

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



22.5437, 0.6267, 0.3370



63.2760, 0.2159, 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.



22.5437, 0.0860, 0.1282



22.5437, 0.6267, 0.3370



22.5437, 0.0990, 0.3381

# Square

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



22.5437, 0.6267, 0.3370



22.5437, 0.3032, 0.6595



22.5437, 0.0746, 0.1867



22.5437, 0.2306, 0.1353



# Rectangle

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



22.5437, 0.6267, 0.3370



22.5437, 0.4846, 0.5154



22.5437, 0.0746, 0.1867



22.5437, 0.1119, 0.1165

# Sweetspot

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



22.5451, 0.6267, 0.3370



60.9590, 0.3751, 0.3374



27.2156, 0.3471, 0.1696



12.0910, 0.3878, 0.3387



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.



22.5451, 0.6267, 0.3370



22.0502, 0.6333, 0.3354



45.3894, 0.5082, 0.4324



18.2980, 0.3292, 0.3316



11.6217, 0.6317, 0.3367



1.2289, 0.6164, 0.3488



# Inverse Universe

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



63.2760, 0.2159, 0.2959



62.6312, 0.2151, 0.2945



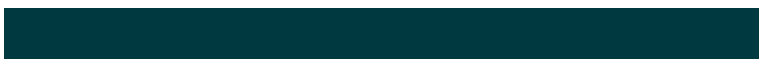
18.0056, 0.1701, 0.1301



20.1316, 0.2980, 0.3264



32.8595, 0.2153, 0.2951



3.2902, 0.2165, 0.2993



# Previews

## White Background



This preview shows how the Yxy color 22.5437, 0.6267, 0.3370 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 22.5437, 0.6267, 0.3370 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

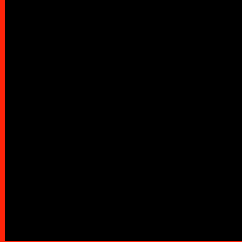
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 22.5437, 0.6267, 0.3370**

## Background



This preview shows how black text looks on a background with the Yxy color 22.5437, 0.6267, 0.3370.



This preview shows how white text looks on a background with the Yxy color 22.5437, 0.6267, 0.3370.

# 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

22.5437, 0.6267, 0.3370

### Protanopia

22.5511, 0.4278, 0.4720

### Deuteranopia

22.6666, 0.4693, 0.4655



## Tritanopia

22.5558, 0.6188, 0.3317

# Trichromacy



## Original Color

22.5437, 0.6267, 0.3370

## Protanomaly

18.8750, 0.5264, 0.4038

## Deuteranomaly

19.8432, 0.5491, 0.4002

## Tritanomaly

22.5239, 0.6225, 0.3339

# Monochromacy



## Original Color

22.5437, 0.6267, 0.3370

## Achromatopsia

12.4772, 0.3127, 0.3290

## Achromatomaly

12.6421, 0.4705, 0.3436

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.5437, 0.6267, 0.3370 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, 36, 10)` looks like.

```
.text, #text, p{  
    color:rgb(255, 36, 10)  
}
```

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, 36, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 36, 10) }
```

## Border

The CSS property to change the border of an element to Yxy 22.5437, 0.6267, 0.3370 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, 36, 10) }
```

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

```
.border{ border-color:rgb(255, 36, 10) }
```

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

Here you see how a box with a 4 pixel rgb(255, 36, 10) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 36, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 36, 10);  
box-shadow:4px 4px 4px 4px rgb(255, 36,  
10) }
```



# Background

The CSS property to change the background color of an element to Yxy 22.5437, 0.6267, 0.3370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 36, 10) }
```

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

```
.background{ background-color: rgb(255, 36,  
10) }
```

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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