

# Converting Colors

$Y_{xy}(23.5258, 0.5639, 0.3335)$

Have a look what the booklet for  
Yxy(23.5258, 0.5639, 0.3335)  
contains.

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**Color**

**Yxy(23.5037, 0.5629, 0.3335)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F24540
RGB	242, 69, 64
RGB Percent	95%, 27%, 25%
CMY	0.0510, 0.7293, 0.7489
CMYK	0.00, 0.71, 0.74, 0.05
HSL	2°, 87%, 60%
HSV	2°, 74%, 95%
XYZ	39.6709, 23.5037, 7.3013
YIQ	120.1570, 104.7130, 35.1210

# Conversions

## Conversions Part 2

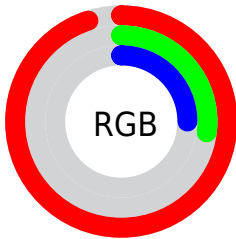
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 69, 64
Decimal	15877440
CIE <sub>Lab</sub>	55.59, 65.10, 42.17
CIE <sub>LCh</sub>	56, 77.564, 32.937
Yxy	23.5037, 0.5629, 0.3335
Android (android.graphics.Color)	4294067520 (0xFFFF24540)
YUV	120.1570, -27.6854, 106.8563
Hunter-Lab	48.4806, 61.2224, 25.0072

# Details

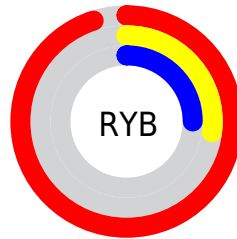
The Yxy color **23.5037, 0.5629, 0.3335** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **68.0761, 0.2294, 0.3225**, and the grayscale version is **18.9042, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.8906, 0.4721, 0.3444**, and **9.5155, 0.6261, 0.3223** is the 20% darker color. If you saturate the color by 10%, you get **20.9430, 0.6031, 0.3328**, and if you desaturate by 10%, it is **27.3327, 0.5158, 0.3336**.

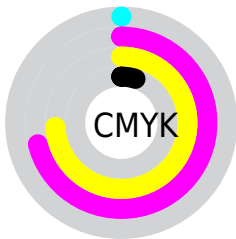
# Distribution



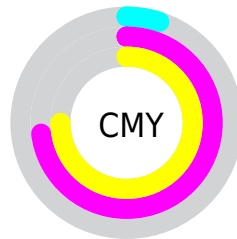
- Red (95%)
- Green (27%)
- Blue (25%)



- Red (95%)
- Yellow (27%)
- Blue (25%)



- Cyan (0%)
- Magenta (71%)
- Yellow (74%)
- Black (5%)




- Cyan (5%)
- Magenta (73%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.5037, 0.5629, 0.3335 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 23.5037, 0.5629, 0.3335 by changing the saturation by 10% instead.





 23.5037, 0.5629,  
0.3335


 23.5037, 0.5629,  
0.3335


270.3017, 0.4273,  
0.3439


 14.9659, 0.5971,  
0.3253


 49.2191, 0.5126,  
0.3412


 8.7954, 0.6394,  
0.3114


 67.1654, 0.4938,  
0.3428


 4.6080, 0.7005,  
0.2909

 89.0168, 0.4781,  
0.3437

 2.0192, 0.7543,  
0.2457

 115.1574, 0.4648,  
0.3442

 0.6186, 0.8294,  
0.1706

 145.9719, 0.4534,  
0.3443

 0.0000, 1.0000,  
0.0000


 181.8445, 0.4435,


 0.0000, 0.0000,


0.3443


0.0000


223.1596, 0.4349,  
0.3441


 23.5037, 0.5629,  
0.3335


 23.5037, 0.5629,  
0.3335


 20.9430, 0.6031,  
0.3328


 27.3327, 0.5158,  
0.3336


 19.4853, 0.6295,  
0.3316

 32.5605, 0.4689,  
0.3333


 19.0232, 0.6386,  
0.3311


 39.3062, 0.4266,  
0.3326

 47.6750, 0.3907,  
0.3317

 57.7626, 0.3613,  
0.3309

 69.6574, 0.3375,  
0.3300

 83.4418, 0.3185,  
0.3293

 97.6161, 0.3047,  
0.3290

# Harmonies

## Analogous

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



23.5037, 0.4836, 0.2599



23.5037, 0.5629, 0.3335



23.5037, 0.5462, 0.4152

# Triad

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



23.5037, 0.5629, 0.3335



23.5037, 0.2414, 0.5432



23.5037, 0.1478, 0.1496

# Complementary

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



23.5037, 0.5629, 0.3335



68.0761, 0.2294, 0.3225

# 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.



23.5037, 0.1140, 0.1727



23.5037, 0.5629, 0.3335



23.5037, 0.1538, 0.3851

# Square

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



23.5037, 0.5629, 0.3335



23.5037, 0.3542, 0.5792



23.5037, 0.1140, 0.2441



23.5037, 0.2224, 0.1593



# Rectangle

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



23.5037, 0.5629, 0.3335



23.5037, 0.4960, 0.4763



23.5037, 0.1140, 0.2441



23.5037, 0.1326, 0.1532

# Sweetspot

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



23.5051, 0.5629, 0.3335



66.9059, 0.3574, 0.3308



28.7805, 0.3232, 0.1721



13.5996, 0.3646, 0.3310



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.



23.5051, 0.5629, 0.3335



22.6727, 0.6176, 0.3323



43.0169, 0.4799, 0.4176



15.8297, 0.3293, 0.3297



10.2526, 0.6380, 0.3316



0.8777, 0.6327, 0.3358



# Inverse Universe

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



68.0761, 0.2294, 0.3225



75.0814, 0.2241, 0.3211



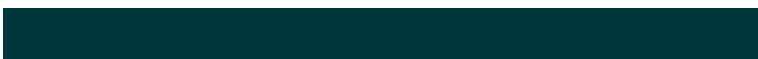
29.3296, 0.1983, 0.2002



17.8485, 0.2981, 0.3283



35.4677, 0.2223, 0.3202



2.9744, 0.2226, 0.3214



# Previews

## White Background



This preview shows how the Yxy color 23.5037, 0.5629, 0.3335 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 23.5037, 0.5629, 0.3335 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 23.5037, 0.5629, 0.3335**

## Background



This preview shows how black text looks on a background with the Yxy color 23.5037, 0.5629, 0.3335.



This preview shows how white text looks on a background with the Yxy color 23.5037, 0.5629, 0.3335.

# 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

23.5037, 0.5629, 0.3335

### Protanopia

23.7258, 0.3793, 0.4120

### Deuteranopia

23.5428, 0.4424, 0.4348



## Tritanopia

23.4664, 0.5556, 0.3274

# Trichromacy



## Original Color

23.5037, 0.5629, 0.3335

## Protanomaly

21.3910, 0.4522, 0.3758

## Deuteranomaly

22.0728, 0.4949, 0.3882

## Tritanomaly

23.4288, 0.5591, 0.3297

# Monochromacy



## Original Color

23.5037, 0.5629, 0.3335

## Achromatopsia

18.7821, 0.3127, 0.3290

## Achromatomaly

18.1200, 0.4065, 0.3309

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.5037, 0.5629, 0.3335 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, 69, 64)` looks like.

```
.text, #text, p{  
  color:rgb(242, 69, 64)  
}
```

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, 69, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 69, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 23.5037, 0.5629, 0.3335 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, 69, 64) }
```

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

```
.border{ border-color:rgb(242, 69, 64) }
```

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

Here you see how a box with a 4 pixel rgb(242, 69, 64) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 69, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 69, 64);  
box-shadow:4px 4px 4px 4px rgb(242, 69,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.5037, 0.5629, 0.3335 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 69, 64) }
```

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

```
.background{ background-color: rgb(242, 69,  
64) }
```

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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