

# Converting Colors

$Y_{xy}(22.7617, 0.5986, 0.3446)$

Have a look what the booklet for  
Yxy(22.7617, 0.5986, 0.3446)  
contains.

<b>Yxy(22.7540, 0.5988, 0.3445)</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(22.7540, 0.5988, 0.3445)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F53C21
RGB	245, 60, 33
RGB Percent	96%, 24%, 13%
CMY	0.0392, 0.7647, 0.8707
CMYK	0.00, 0.76, 0.87, 0.04
HSL	8°, 91%, 55%
HSV	8°, 87%, 96%
XYZ	39.5503, 22.7540, 3.7450
YIQ	112.2370, 118.9270, 30.8230

# Conversions

## Conversions Part 2

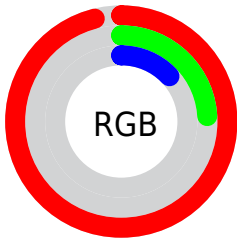
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	245, 64, 33
Decimal	16071713
CIE <sub>Lab</sub>	54.82, 68.03, 57.06
CIE <sub>LCh</sub>	55, 88.794, 39.985
Yxy	22.7540, 0.5988, 0.3445
Android (android.graphics.Color)	4294261793 (0xFFFF53C21)
YUV	112.2370, -39.0638, 116.4332
Hunter-Lab	47.7012, 64.5223, 28.7360

# Details

The Yxy color **22.7540, 0.5988, 0.3445** 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 **57.0641, 0.2170, 0.2935**, and the grayscale version is **16.3658, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.5439, 0.5094, 0.3650**, and **9.5837, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **20.8591, 0.6245, 0.3390**, and if you desaturate by 10%, it is **25.6554, 0.5612, 0.3479**.

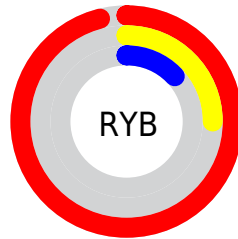
# Distribution



Red (96%)

Green (24%)

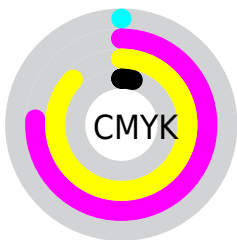
Blue (13%)



Red (96%)

Yellow (25%)

Blue (13%)

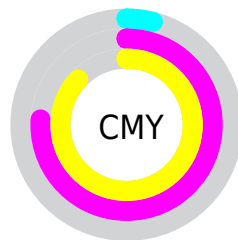


Cyan (0%)

Magenta (76%)

Yellow (87%)

Black (4%)



Cyan (4%)

Magenta (76%)

Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.7540, 0.5988, 0.3445 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 22.7540, 0.5988, 0.3445 by changing the saturation by 10% instead.





 22.7540, 0.5988,  
0.3445


 22.7540, 0.5988,  
0.3445


266.4590, 0.4489,  
0.3566


 14.4120, 0.6326,  
0.3331


 47.9891, 0.5457,  
0.3550


 8.4077, 0.6762,  
0.3160


 65.6509, 0.5251,  
0.3571


 4.3569, 0.7171,  
0.2829

 87.1881, 0.5074,  
0.3581

 1.8752, 0.7667,  
0.2333

 112.9852, 0.4923,  
0.3583

 0.5334, 0.8484,  
0.1516

 143.4264, 0.4792,  
0.3582


 0.0000, 1.0000,  
0.0000

 178.8961, 0.4678,

 0.0000, 0.0000,

0.3578

0.0000


 219.7789, 0.4577,  
0.3573


 22.7540, 0.5988,  
0.3445


 22.7540, 0.5988,  
0.3445


 20.8591, 0.6245,  
0.3390


 25.6554, 0.5612,  
0.3479


 20.4059, 0.6308,  
0.3373


 29.6751, 0.5173,  
0.3488


 34.9142, 0.4731,  
0.3476

 41.4613, 0.4324,  
0.3451

 49.3965, 0.3972,  
0.3417

 58.7938, 0.3677,  
0.3381

 69.7215, 0.3434,  
0.3345

 82.2438, 0.3236,  
0.3311

 96.4214, 0.3075,  
0.3279

# Harmonies

## Analogous

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



22.7540, 0.5396, 0.2666



22.7540, 0.5988, 0.3445



22.7540, 0.5499, 0.4352

# Triad

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



22.7540, 0.5988, 0.3445



22.7540, 0.1997, 0.5476



22.7540, 0.1449, 0.1315

# Complementary

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



22.7540, 0.5988, 0.3445



57.0641, 0.2170, 0.2935

# 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.



22.7540, 0.1008, 0.1452



22.7540, 0.5988, 0.3445



22.7540, 0.1191, 0.3448

# Square

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



22.7540, 0.5988, 0.3445



22.7540, 0.3182, 0.6229



22.7540, 0.0913, 0.2047



22.7540, 0.2372, 0.1492



# Rectangle

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



22.7540, 0.5988, 0.3445



22.7540, 0.4830, 0.5081



22.7540, 0.0913, 0.2047



22.7540, 0.1257, 0.1323

# Sweetspot

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



22.7554, 0.5988, 0.3445



64.9192, 0.3664, 0.3379



25.6839, 0.3480, 0.1747



13.0850, 0.3759, 0.3392



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.



22.7554, 0.5988, 0.3445



22.3190, 0.6310, 0.3372



45.9814, 0.4884, 0.4389



16.8225, 0.3291, 0.3321



11.0992, 0.6290, 0.3388



1.0813, 0.6100, 0.3539



# Inverse Universe

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



57.0641, 0.2170, 0.2935



59.7402, 0.2132, 0.2874



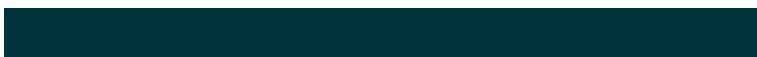
19.0104, 0.1768, 0.1451



18.3765, 0.2981, 0.3259



29.5479, 0.2134, 0.2882



2.6956, 0.2150, 0.2938



# Previews

## White Background



This preview shows how the Yxy color 22.7540, 0.5988, 0.3445 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 22.7540, 0.5988, 0.3445 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 22.7540, 0.5988, 0.3445**

## Background



This preview shows how black text looks on a background with the Yxy color 22.7540, 0.5988, 0.3445.



This preview shows how white text looks on a background with the Yxy color 22.7540, 0.5988, 0.3445.

# 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

22.7540, 0.5988, 0.3445

### Protanopia

22.9359, 0.4160, 0.4574

### Deuteranopia

22.7742, 0.4705, 0.4646



## Tritanopia

22.8246, 0.5802, 0.3291

# Trichromacy



**Original Color**

22.7540, 0.5988, 0.3445

**Protanomaly**

20.5572, 0.4956, 0.4053

**Deuteranomaly**

20.9360, 0.5326, 0.4096

**Tritanomaly**

22.8407, 0.5883, 0.3353

# Monochromacy



**Original Color**

22.7540, 0.5988, 0.3445

**Achromatopsia**

16.2029, 0.3127, 0.3290

**Achromatomaly**

15.9268, 0.4332, 0.3454

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.7540, 0.5988, 0.3445 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(245, 60, 33)` looks like.

```
.text, #text, p{  
    color:rgb(245, 60, 33)  
}
```

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(245, 60, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 60, 33) }
```

## Border

The CSS property to change the border of an element to Yxy 22.7540, 0.5988, 0.3445 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(245, 60, 33) }
```

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

```
.border{ border-color:rgb(245, 60, 33) }
```

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

Here you see how a box with a 4 pixel rgb(245, 60, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 60, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 60, 33);  
box-shadow:4px 4px 4px 4px rgb(245, 60,  
33) }
```



# Background

The CSS property to change the background color of an element to Yxy 22.7540, 0.5988, 0.3445 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 60, 33) }
```

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

```
.background{ background-color: rgb(245, 60,  
33) }
```

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