

Converting Colors

$Y_{xy}(22.8699, 0.3138, 0.5111)$

Have a look what the booklet for
Yxy(22.8699, 0.3138, 0.5111)
contains.

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Color

Yxy(22.8733, 0.3141, 0.5113)

Conversions

Conversions Part 1

Format	Color
Hex	48943B
RGB	72, 148, 59
RGB Percent	28%, 58%, 23%
CMY	0.7177, 0.4196, 0.7687
CMYK	0.51, 0.00, 0.60, 0.42
HSL	111°, 43%, 41%
HSV	111°, 60%, 58%
XYZ	14.0514, 22.8733, 7.8108
YIQ	115.1300, -16.7270, -43.7910

Conversions

Conversions Part 2

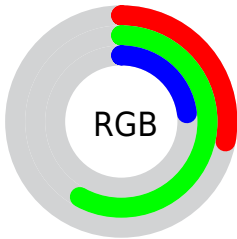
Format	Color
RYB	59, 148, 135
Decimal	4756539
CIELab	54.94, -41.40, 39.21
CIELCh	55, 57.023, 136.556
Yxy	22.8733, 0.3141, 0.5113
Android (android.graphics.Color)	4282946619 (0xFF48943B)
YUV	115.1300, -27.6721, -37.8250
Hunter-Lab	47.8260, -31.2517, 23.7951

Details

The Yxy color **22.8733, 0.3141, 0.5113** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **10.4164, 0.2994, 0.1845**, and the grayscale version is **17.2753, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.3280, 0.3183, 0.4680**, and **8.4090, 0.3004, 0.5912** is the 20% darker color. If you saturate the color by 10%, you get **22.3051, 0.3124, 0.5413**, and if you desaturate by 10%, it is **23.5869, 0.3151, 0.4785**.

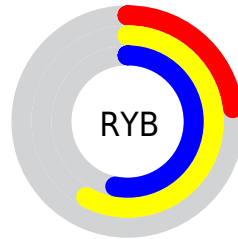
Distribution



Red (28%)

Green (58%)

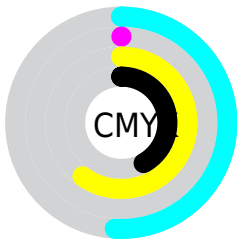
Blue (23%)



Red (23%)

Yellow (58%)

Blue (53%)

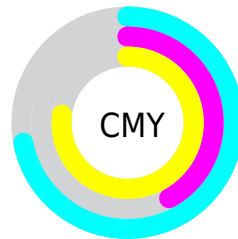


Cyan (51%)

Magenta (0%)

Yellow (60%)

Black (42%)



Cyan (72%)


Magenta (42%)


Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 22.8733, 0.3141, 0.5113 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 22.8733, 0.3141, 0.5113 by changing the saturation by 10% instead.


 22.8733, 0.3141,
0.5113


 22.8733, 0.3141,
0.5113


267.0736, 0.3187,
0.4033


 14.5000, 0.3094,
0.5446


 48.1852, 0.3179,
0.4675


 8.4692, 0.3000,
0.5908


 65.8926, 0.3186,
0.4524


 4.3966, 0.2867,
0.6727

 87.4801, 0.3189,
0.4402

 1.8978, 0.2283,
0.7717

 113.3321, 0.3190,
0.4302

 0.5471, 0.0000,
1.0000

 143.8331, 0.3190,
0.4218

 0.0000, 0.0000,
0.0000

 179.3674, 0.3190,

0.4147

220.3194, 0.3188,
0.4086

■ 22.8733, 0.3141,
0.5113

■ 22.8733, 0.3141,
0.5113

■ 22.3051, 0.3124,
0.5413

■ 23.5869, 0.3151,
0.4785

■ 21.8693, 0.3101,
0.5662

■ 24.4519, 0.3154,
0.4449

■ 21.5558, 0.3073,
0.5843

■ 25.4775, 0.3153,
0.4124

■ 21.3473, 0.3048,
0.5962

■ 26.6714, 0.3147,
0.3819

■ 28.0408, 0.3138,
0.3541

■ 29.5923, 0.3127,
0.3293

■ 31.3324, 0.3116,
0.3074

■ 33.2670, 0.3104,
0.2882

■ 35.4021, 0.3091,
0.2715

Harmonies

Analogous

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



22.8733, 0.4052, 0.5022



22.8733, 0.3141, 0.5113



22.8733, 0.2274, 0.4361

Triad

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



22.8733, 0.3141, 0.5113



22.8733, 0.1608, 0.1932



22.8733, 0.4765, 0.3061

Complementary

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



22.8733, 0.3141, 0.5113



10.4164, 0.2994, 0.1845

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.



22.8733, 0.3870, 0.2469



22.8733, 0.3141, 0.5113



22.8733, 0.2053, 0.1849

Square

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



22.8733, 0.3141, 0.5113



22.8733, 0.1485, 0.2358



22.8733, 0.2840, 0.2041



22.8733, 0.5093, 0.3731

Rectangle

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



22.8733, 0.3141, 0.5113



22.8733, 0.1845, 0.3589



22.8733, 0.2840, 0.2041



22.8733, 0.4513, 0.2852

Sweetspot

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



22.8743, 0.3141, 0.5113



47.4652, 0.3145, 0.3768



23.8430, 0.4074, 0.4494



10.6962, 0.3147, 0.3845



74.8414, 0.3127, 0.3290



11.9280, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



22.8743, 0.3141, 0.5113



39.0755, 0.3117, 0.5502



22.8513, 0.2823, 0.4528



6.5067, 0.3137, 0.3517



18.2409, 0.3050, 0.5960



0.2310, 0.3249, 0.5802

Inverse Universe

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



10.4164, 0.2994, 0.1845



15.0421, 0.2947, 0.1609



10.7043, 0.3720, 0.2345



5.8667, 0.3115, 0.3070



5.6487, 0.2851, 0.1344



0.0786, 0.3038, 0.1447

Previews

White Background



This preview shows how the Yxy color 22.8733, 0.3141, 0.5113 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 22.8733, 0.3141, 0.5113 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 22.8733, 0.3141, 0.5113

Background



This preview shows how black text looks on a background with the Yxy color 22.8733, 0.3141, 0.5113.



This preview shows how white text looks on a background with the Yxy color 22.8733, 0.3141, 0.5113.

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

22.8733, 0.3141, 0.5113

Protanopia

22.6099, 0.4126, 0.4521

Deuteranopia

22.6376, 0.4265, 0.4195



Tritanopia

22.8409, 0.2559, 0.3084

Trichromacy



Original Color

22.8733, 0.3141, 0.5113

Protanomaly

22.0988, 0.3716, 0.4756

Deuteranomaly

21.8011, 0.3814, 0.4534

Tritanomaly

22.4694, 0.2778, 0.3794

Monochromacy



Original Color

22.8733, 0.3141, 0.5113

Achromatopsia

17.1441, 0.3127, 0.3290

Achromatomaly

18.6576, 0.3142, 0.3961

CSS Examples

Text

The CSS property to change the color of the text to Yxy 22.8733, 0.3141, 0.5113 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(72, 148, 59)` looks like.

```
.text, #text, p{  
    color:rgb(72, 148, 59)  
}
```

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(72, 148, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 148, 59) }
```

Border

The CSS property to change the border of an element to Yxy 22.8733, 0.3141, 0.5113 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(72, 148, 59) }
```

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

```
.border{ border-color:rgb(72, 148, 59) }
```

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

Here you see how a box with a 4 pixel rgb(72, 148, 59) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 148, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 148, 59);  
box-shadow:4px 4px 4px 4px rgb(72, 148,  
59) }
```


Background

The CSS property to change the background color of an element to Yxy 22.8733, 0.3141, 0.5113 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 148, 59) }
```

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

```
.background{ background-color: rgb(72, 148,  
59) }
```

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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