

Converting Colors

$Y_{xy}(22.7816, 0.4555, 0.4269)$

Have a look what the booklet for
Yxy(22.7816, 0.4555, 0.4269)
contains.

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Color

Yxy(22.8160, 0.4559, 0.4271)

Conversions

Conversions Part 1

Format	Color
Hex	AB7A33
RGB	171, 122, 51
RGB Percent	67%, 48%, 20%
CMY	0.3293, 0.5216, 0.8001
CMYK	0.00, 0.29, 0.70, 0.33
HSL	35°, 54%, 44%
HSV	35°, 70%, 67%
XYZ	24.3545, 22.8160, 6.2502
YIQ	128.5570, 51.9950, -11.6930

Conversions

Conversions Part 2

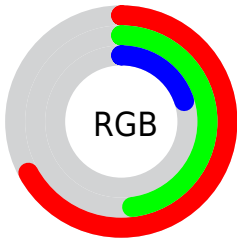
Format	Color
R_{YB}	134, 171, 51
Decimal	11237939
CIE _{Lab}	54.88, 12.05, 45.06
CIE _{LCh}	55, 46.643, 75.027
Yxy	22.8160, 0.4559, 0.4271
Android (android.graphics.Color)	4289428019 (0xFFAB7A33)
YUV	128.5570, -38.2356, 37.2225
Hunter-Lab	47.7661, 7.4212, 25.6781

Details

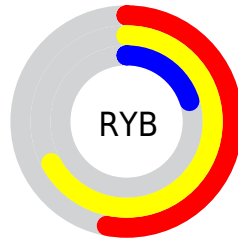
The Yxy color **22.8160, 0.4559, 0.4271** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **12.7601, 0.2001, 0.1924**, and the grayscale version is **21.9128, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.0347, 0.4280, 0.4102**, and **8.4099, 0.4978, 0.4429** is the 20% darker color. If you saturate the color by 10%, you get **21.0391, 0.4777, 0.4329**, and if you desaturate by 10%, it is **24.7740, 0.4327, 0.4172**.

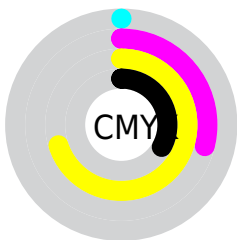
Distribution



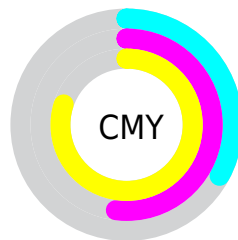
- Red (67%)
- Green (48%)
- Blue (20%)



- Red (53%)
- Yellow (67%)
- Blue (20%)



- Cyan (0%)
- Magenta (29%)
- Yellow (70%)
- Black (33%)





- Cyan (33%)
- Magenta (52%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 22.8160, 0.4559, 0.4271 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 22.8160, 0.4559, 0.4271 by changing the saturation by 10% instead.


 22.8160, 0.4559,
0.4271


 22.8160, 0.4559,
0.4271


266.7785, 0.3790,
0.3787


 14.4577, 0.4749,
0.4367


 48.0910, 0.4275,
0.4107


 8.4397, 0.4979,
0.4462


 65.7765, 0.4169,
0.4041


 4.3776, 0.5368,
0.4632

 87.3399, 0.4080,
0.3984

 1.8869, 0.5521,
0.4479

 113.1655, 0.4004,
0.3934

 0.5405, 0.5992,
0.4008

 143.6378, 0.3939,
0.3890

 0.0000, 0.0000,
0.0000

 179.1412, 0.3883,

0.3851

220.0599, 0.3834,
0.3817

■ 22.8160, 0.4559,
0.4271

■ 22.8160, 0.4559,
0.4271

■ 21.0391, 0.4777,
0.4329

■ 24.7740, 0.4327,
0.4172

■ 19.4308, 0.4970,
0.4338

■ 26.9175, 0.4094,
0.4044

■ 18.0013, 0.5135,
0.4305

■ 29.2550, 0.3868,
0.3898

■ 31.7932, 0.3656,
0.3744

■ 34.5382, 0.3462,
0.3589

■ 37.4961, 0.3287,
0.3437

■ 40.6723, 0.3130,
0.3293

■ 44.0723, 0.2991,
0.3157

■ 47.7012, 0.2868,
0.3032

Harmonies

Analogous

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



22.8160, 0.4759, 0.3682



22.8160, 0.4559, 0.4271



22.8160, 0.3979, 0.4726

Triad

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



22.8160, 0.4559, 0.4271



22.8160, 0.1941, 0.3296



22.8160, 0.2859, 0.2211

Complementary

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



22.8160, 0.4559, 0.4271



12.7601, 0.2001, 0.1924

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.



22.8160, 0.2198, 0.2058



22.8160, 0.4559, 0.4271



22.8160, 0.1728, 0.2561

Square

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



22.8160, 0.4559, 0.4271



22.8160, 0.2468, 0.4190



22.8160, 0.1818, 0.2158



22.8160, 0.3701, 0.2577

Rectangle

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



22.8160, 0.4559, 0.4271



22.8160, 0.3478, 0.4818



22.8160, 0.1818, 0.2158



22.8160, 0.2610, 0.2135

Sweetspot

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



22.8171, 0.4559, 0.4271



61.2397, 0.3484, 0.3607



11.9659, 0.4435, 0.2610



13.3581, 0.3535, 0.3648



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

Same Dimension

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



22.8171, 0.4559, 0.4271



36.1086, 0.4884, 0.4340



36.9507, 0.3955, 0.4894



8.7732, 0.3272, 0.3424



13.6725, 0.5123, 0.4315



0.4844, 0.4774, 0.4592

Inverse Universe

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



12.7601, 0.2001, 0.1924



17.1331, 0.1817, 0.1586



6.2990, 0.1869, 0.1126



8.2743, 0.2986, 0.3152



5.6017, 0.1699, 0.1316



0.2651, 0.1872, 0.1940

Previews

White Background



This preview shows how the Yxy color 22.8160, 0.4559, 0.4271 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 22.8160, 0.4559, 0.4271 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 22.8160, 0.4559, 0.4271

Background



This preview shows how black text looks on a background with the Yxy color 22.8160, 0.4559, 0.4271.



This preview shows how white text looks on a background with the Yxy color 22.8160, 0.4559, 0.4271.

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

22.8160, 0.4559, 0.4271

Protanopia

22.9719, 0.4129, 0.4527

Deuteranopia

22.7900, 0.4448, 0.4366



Tritanopia

22.9216, 0.3822, 0.3173

Trichromacy



Original Color

22.8160, 0.4559, 0.4271

Protanomaly

22.7633, 0.4291, 0.4426

Deuteranomaly

22.8611, 0.4496, 0.4333

Tritanomaly

22.8186, 0.4125, 0.3608

Monochromacy



Original Color

22.8160, 0.4559, 0.4271

Achromatopsia

21.9526, 0.3127, 0.3290

Achromatomaly

21.7906, 0.3643, 0.3725

CSS Examples

Text

The CSS property to change the color of the text to Yxy 22.8160, 0.4559, 0.4271 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(171, 122, 51)` looks like.

```
.text, #text, p{  
    color:rgb(171, 122, 51)  
}
```

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(171, 122, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 122, 51) }
```

Border

The CSS property to change the border of an element to Yxy 22.8160, 0.4559, 0.4271 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(171, 122, 51) }
```

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

```
.border{ border-color:rgb(171, 122, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 122, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 122, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 122, 51);  
box-shadow:4px 4px 4px 4px rgb(171, 122,  
51) }
```


Background

The CSS property to change the background color of an element to Yxy 22.8160, 0.4559, 0.4271 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 122, 51) }
```

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

```
.background{ background-color: rgb(171,  
122, 51) }
```

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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