

Converting Colors

$Y_{xy}(20.7692, 0.4083, 0.4864)$

Have a look what the booklet for
Yxy(20.7692, 0.4083, 0.4864)
contains.

Yxy(20.8209, 0.4078, 0.4862)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

$\text{Yxy}(20.8209, 0.4078, 0.4862)$

Conversions

Conversions Part 1

Format	Color
Hex	828221
RGB	130, 130, 33
RGB Percent	51%, 51%, 13%
CMY	0.4902, 0.4902, 0.8705
CMYK	0.00, 0.00, 0.75, 0.49
HSL	60°, 59%, 32%
HSV	60°, 75%, 51%
XYZ	17.4635, 20.8209, 4.5393
YIQ	118.9420, 31.1370, -30.1670

Conversions

Conversions Part 2

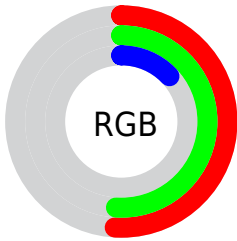
Format	Color
R_{YB}	33, 130, 33
Decimal	8552993
CIE _{Lab}	52.75, -12.10, 49.19
CIE _{LCh}	53, 50.656, 103.818
Yxy	20.8209, 0.4078, 0.4862
Android (android.graphics.Color)	4286743073 (0xFF828221)
YUV	118.9420, -42.3694, 9.6979
Hunter-Lab	45.6299, -11.5367, 26.0427

Details

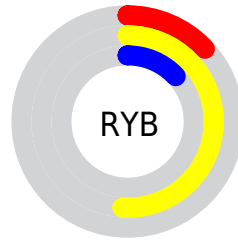
The Yxy color **20.8209, 0.4078, 0.4862** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **3.0251, 0.1754, 0.1020**, and the grayscale version is **18.5593, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.9620, 0.3921, 0.4541**, and **7.4626, 0.4115, 0.5115** is the 20% darker color. If you saturate the color by 10%, you get **20.7625, 0.4139, 0.4963**, and if you desaturate by 10%, it is **20.9094, 0.3993, 0.4722**.

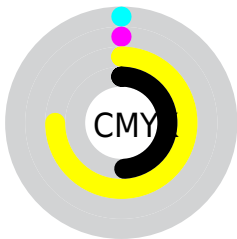
Distribution



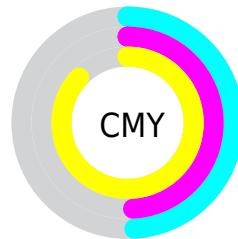
- Red (51%)
- Green (51%)
- Blue (13%)



- Red (13%)
- Yellow (51%)
- Blue (13%)



- Cyan (0%)
- Magenta (0%)
- Yellow (75%)
- Black (49%)





- Cyan (49%)
- Magenta (49%)
- Yellow (87%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 20.8209, 0.4078, 0.4862 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 20.8209, 0.4078, 0.4862 by changing the saturation by 10% instead.


 20.8209, 0.4078,
0.4862


 20.8209, 0.4078,
0.4862


 256.3251, 0.3601,
0.3997


 12.9931, 0.4168,
0.5079


 44.7893, 0.3917,
0.4539


 7.4238, 0.4268,
0.5364


 61.6987, 0.3852,
0.4418

 3.7285, 0.4313,
0.5687

 82.4041, 0.3795,
0.4318

 1.5229, 0.4112,
0.5888

 107.2899, 0.3745,
0.4233

 0.3048, 0.0000,
1.0000

 136.7405, 0.3702,
0.4161

 0.0000, 0.0000,
0.0000

 171.1404, 0.3664,

0.4099

210.8738, 0.3631,
0.4045

■ 20.8209, 0.4078,
0.4862

■ 20.8209, 0.4078,
0.4862

■ 20.7625, 0.4139,
0.4963

■ 20.9094, 0.3993,
0.4722

■ 20.7273, 0.4176,
0.5025

■ 21.0280, 0.3887,
0.4546

■ 20.7118, 0.4193,
0.5053

■ 21.1803, 0.3762,
0.4340

■ 21.3684, 0.3626,
0.4115

■ 21.5945, 0.3482,
0.3877

■ 21.8604, 0.3336,
0.3635

■ 22.1681, 0.3192,
0.3397

■ 22.5192, 0.3053,
0.3167

■ 22.9152, 0.2921,
0.2949

Harmonies

Analogous

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



20.8209, 0.4719, 0.4318



20.8209, 0.4078, 0.4862



20.8209, 0.3238, 0.4971

Triad

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



20.8209, 0.4078, 0.4862



20.8209, 0.1597, 0.2494



20.8209, 0.3725, 0.2484

Complementary

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



20.8209, 0.4078, 0.4862



3.0251, 0.1754, 0.1020

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.



20.8209, 0.2788, 0.2097



20.8209, 0.4078, 0.4862



20.8209, 0.1684, 0.2051

Square

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



20.8209, 0.4078, 0.4862



20.8209, 0.1833, 0.3324



20.8209, 0.2078, 0.1939



20.8209, 0.4573, 0.3035

Rectangle

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



20.8209, 0.4078, 0.4862



20.8209, 0.2672, 0.4633



20.8209, 0.2078, 0.1939



20.8209, 0.3402, 0.2333

Sweetspot

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



20.8219, 0.4078, 0.4862



38.1200, 0.3452, 0.3826



5.9455, 0.5560, 0.3297



8.6065, 0.3484, 0.3879



65.5931, 0.3127, 0.3290



8.8982, 0.3127, 0.3290

Same Dimension

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



20.8219, 0.4078, 0.4862



36.5136, 0.4169, 0.5012



17.8482, 0.3459, 0.5278



5.0194, 0.3256, 0.3503



19.8585, 0.4193, 0.5053



0.0000, 0.0000, 0.0000

Inverse Universe

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



3.0251, 0.1754, 0.1020



3.3516, 0.1557, 0.0694



4.4735, 0.2353, 0.1314



4.2117, 0.2993, 0.3067



1.5454, 0.1500, 0.0600



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the Yxy color 20.8209, 0.4078, 0.4862 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 20.8209, 0.4078, 0.4862 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

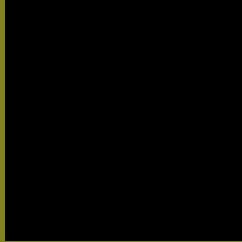
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.8209, 0.4078, 0.4862

Background



This preview shows how black text looks on a background with the Yxy color 20.8209, 0.4078, 0.4862.



This preview shows how white text looks on a background with the Yxy color 20.8209, 0.4078, 0.4862.

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

20.8209, 0.4078, 0.4862

Protanopia

20.6887, 0.4274, 0.4727

Deuteranopia

20.8420, 0.4528, 0.4458



Tritanopia

20.7167, 0.3222, 0.3116

Trichromacy



Original Color

20.8209, 0.4078, 0.4862

Protanomaly

20.6014, 0.4210, 0.4774

Deuteranomaly

20.8386, 0.4364, 0.4607

Tritanomaly

20.3924, 0.3607, 0.3818

Monochromacy



Original Color

20.8209, 0.4078, 0.4862

Achromatopsia

18.4475, 0.3127, 0.3290

Achromatomaly

19.0815, 0.3536, 0.3966

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.8209, 0.4078, 0.4862 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(130, 130, 33)` looks like.

```
.text, #text, p{  
    color:rgb(130, 130, 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(130, 130, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 130, 33) }
```

Border

The CSS property to change the border of an element to Yxy 20.8209, 0.4078, 0.4862 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(130, 130, 33) }
```

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

```
.border{ border-color:rgb(130, 130, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(130, 130, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 130, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 130, 33);  
box-shadow:4px 4px 4px 4px rgb(130, 130,  
33) }
```


Background

The CSS property to change the background color of an element to Yxy 20.8209, 0.4078, 0.4862 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 130, 33) }
```

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

```
.background{ background-color: rgb(130,  
130, 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