

Converting Colors

$Y_{xy}(20.9732, 0.4800, 0.4326)$

Have a look what the booklet for
Yxy(20.9732, 0.4800, 0.4326)
contains.

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Color

Yxy(20.9151, 0.4808, 0.4315)

Conversions

Conversions Part 1

Format	Color
Hex	AC7221
RGB	172, 114, 33
RGB Percent	67%, 45%, 13%
CMY	0.3255, 0.5529, 0.8704
CMYK	0.00, 0.34, 0.81, 0.33
HSL	35°, 68%, 40%
HSV	35°, 81%, 67%
XYZ	23.3047, 20.9151, 4.2509
YIQ	122.1080, 60.5690, -12.8950

Conversions

Conversions Part 2

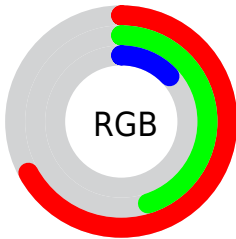
Format	Color
R_{YB}	133, 172, 33
Decimal	11301409
CIE Lab	52.86, 16.15, 50.87
CIE LCh	53, 53.373, 72.384
Yxy	20.9151, 0.4808, 0.4315
Android (android.graphics.Color)	4289491489 (0xFFAC7221)
YUV	122.1080, -43.9302, 43.7553
Hunter-Lab	45.7330, 10.9275, 26.5021

Details

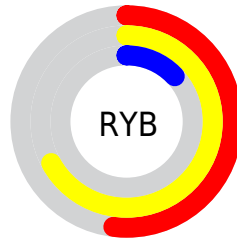
The Yxy color **20.9151, 0.4808, 0.4315** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **10.7906, 0.1873, 0.1710**, and the grayscale version is **19.6330, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.0683, 0.4487, 0.4169**, and **7.5413, 0.5142, 0.4299** is the 20% darker color. If you saturate the color by 10%, you get **19.2866, 0.5003, 0.4319**, and if you desaturate by 10%, it is **22.7220, 0.4586, 0.4262**.

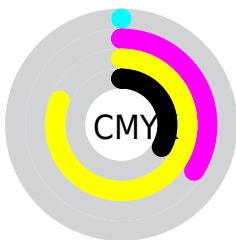
Distribution



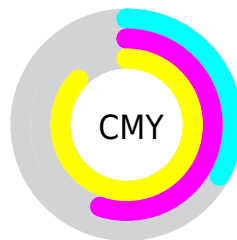
- Red (67%)
- Green (45%)
- Blue (13%)



- Red (52%)
- Yellow (67%)
- Blue (13%)



- Cyan (0%)
- Magenta (34%)
- Yellow (81%)
- Black (33%)





- Cyan (33%)
- Magenta (55%)
- Yellow (87%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.9151, 0.4808, 0.4315 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 20.9151, 0.4808, 0.4315 by changing the saturation by 10% instead.


 20.9151, 0.4808,
0.4315


 20.9151, 0.4808,
0.4315


256.8270, 0.3910,
0.3836

 13.0620, 0.5019,
0.4388


 44.9462, 0.4482,
0.4166

 7.4712, 0.5295,
0.4463


 61.8929, 0.4358,
0.4101

 3.7585, 0.5561,
0.4439

 82.6397, 0.4253,
0.4042

 1.5394, 0.5782,
0.4218

 107.5708, 0.4163,
0.3991

 0.3162, 0.6872,
0.3128

 137.0707, 0.4086,
0.3945

 0.0000, 0.0000,
0.0000

 171.5237, 0.4020,

0.3904

211.3144, 0.3961,
0.3868

20.9151, 0.4808,
0.4315

20.9151, 0.4808,
0.4315

19.2866, 0.5003,
0.4319

22.7220, 0.4586,
0.4262

17.9255, 0.5160,
0.4285

24.7137, 0.4351,
0.4167

26.8994, 0.4114,
0.4042

29.2867, 0.3885,
0.3899

31.8826, 0.3671,
0.3747

■ 34.6936, 0.3474,
0.3593

■ 37.7259, 0.3297,
0.3444

■ 40.9853, 0.3139,
0.3301

■ 44.4774, 0.2999,
0.3167

Harmonies

Analogous

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



20.9151, 0.5024, 0.3636



20.9151, 0.4808, 0.4315



20.9151, 0.4147, 0.4910

Triad

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



20.9151, 0.4808, 0.4315



20.9151, 0.1794, 0.3370



20.9151, 0.2727, 0.2035

Complementary

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



20.9151, 0.4808, 0.4315



10.7906, 0.1873, 0.1710

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.



20.9151, 0.2005, 0.1883



20.9151, 0.4808, 0.4315



20.9151, 0.1538, 0.2482

Square

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



20.9151, 0.4808, 0.4315



20.9151, 0.2411, 0.4459



20.9151, 0.1614, 0.2009



20.9151, 0.3704, 0.2425

Rectangle

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



20.9151, 0.4808, 0.4315



20.9151, 0.3576, 0.5098



20.9151, 0.1614, 0.2009



20.9151, 0.2450, 0.1956

Sweetspot

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



20.9162, 0.4808, 0.4315



61.0396, 0.3544, 0.3649



10.6552, 0.4693, 0.2559



12.8841, 0.3612, 0.3702



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.



20.9162, 0.4808, 0.4315



32.8546, 0.5134, 0.4285



37.3710, 0.4036, 0.5015



8.7613, 0.3272, 0.3422



13.4508, 0.5148, 0.4295



0.4790, 0.4789, 0.4580

Inverse Universe

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



10.7906, 0.1873, 0.1710



14.1026, 0.1713, 0.1348



4.5675, 0.1692, 0.0862



8.2859, 0.2986, 0.3154



5.7481, 0.1706, 0.1342



0.2696, 0.1878, 0.1962

Previews

White Background



This preview shows how the Yxy color 20.9151, 0.4808, 0.4315 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 20.9151, 0.4808, 0.4315 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

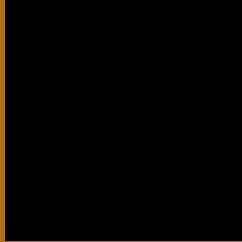
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.9151, 0.4808, 0.4315

Background



This preview shows how black text looks on a background with the Yxy color 20.9151, 0.4808, 0.4315.



This preview shows how white text looks on a background with the Yxy color 20.9151, 0.4808, 0.4315.

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

20.9151, 0.4808, 0.4315

Protanopia

21.0569, 0.4251, 0.4695

Deuteranopia

20.8976, 0.4591, 0.4515



Tritanopia

20.7531, 0.3990, 0.3173

Trichromacy



Original Color

20.9151, 0.4808, 0.4315

Protanomaly

20.8127, 0.4459, 0.4550

Deuteranomaly

20.9483, 0.4672, 0.4442

Tritanomaly

20.7071, 0.4366, 0.3647

Monochromacy



Original Color

20.9151, 0.4808, 0.4315

Achromatopsia

19.4618, 0.3127, 0.3290

Achromatomaly

19.5073, 0.3762, 0.3811

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.9151, 0.4808, 0.4315 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(172, 114, 33)` looks like.

```
.text, #text, p{  
    color:rgb(172, 114, 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(172, 114, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 114, 33) }
```

Border

The CSS property to change the border of an element to Yxy 20.9151, 0.4808, 0.4315 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(172, 114, 33) }
```

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

```
.border{ border-color:rgb(172, 114, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 114, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 114, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 114, 33);  
box-shadow:4px 4px 4px 4px rgb(172, 114,  
33) }
```


Background

The CSS property to change the background color of an element to Yxy 20.9151, 0.4808, 0.4315 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 114, 33) }
```

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

```
.background{ background-color: rgb(172,  
114, 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](#).

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