

Converting Colors

$Y_{xy}(20.3418, 0.4789, 0.4304)$

Have a look what the booklet for
Yxy(20.3418, 0.4789, 0.4304)
contains.

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Color

$\text{Yxy}(20.4777, 0.4786, 0.4302)$

Conversions

Conversions Part 1

Format	Color
Hex	AA7123
RGB	170, 113, 35
RGB Percent	67%, 44%, 14%
CMY	0.3334, 0.5568, 0.8628
CMYK	0.00, 0.34, 0.79, 0.33
HSL	35°, 66%, 40%
HSV	35°, 79%, 67%
XYZ	22.7816, 20.4777, 4.3412
YIQ	121.1510, 59.0100, -12.1740

Conversions

Conversions Part 2

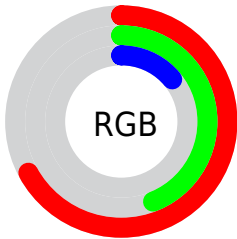
Format	Color
RYB	134, 170, 35
Decimal	11170083
CIELab	52.37, 15.88, 49.56
CIElCh	52, 52.041, 72.237
Yxy	20.4777, 0.4786, 0.4302
Android (android.graphics.Color)	4289360163 (0xFFAA7123)
YUV	121.1510, -42.4724, 42.8406
Hunter-Lab	45.2523, 10.6715, 25.9888

Details

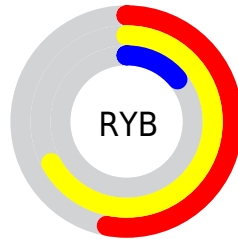
The Yxy color **20.4777, 0.4786, 0.4302** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **10.9032, 0.1893, 0.1754**, and the grayscale version is **19.2980, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.2402, 0.4454, 0.4153**, and **7.2913, 0.5136, 0.4304** is the 20% darker color. If you saturate the color by 10%, you get **18.8632, 0.4988, 0.4312**, and if you desaturate by 10%, it is **22.2697, 0.4560, 0.4243**.

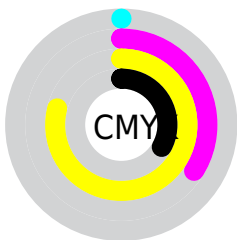
Distribution



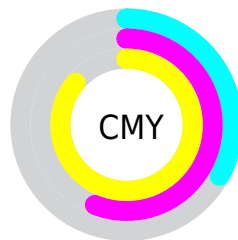
- Red (67%)
- Green (44%)
- Blue (14%)



- Red (53%)
- Yellow (67%)
- Blue (14%)



- Cyan (0%)
- Magenta (34%)
- Yellow (79%)
- Black (33%)



- Cyan (33%)
- Magenta (56%)
- Yellow (86%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 20.4777, 0.4786, 0.4302 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 20.4777, 0.4786, 0.4302 by changing the saturation by 10% instead.


 20.4777, 0.4786,
0.4302


 20.4777, 0.4786,
0.4302


254.4896, 0.3894,
0.3824


 12.7428, 0.4999,
0.4378


 44.2166, 0.4460,
0.4151


 7.2517, 0.5277,
0.4455


 60.9894, 0.4336,
0.4086


 3.6200, 0.5558,
0.4442

 81.5436, 0.4232,
0.4028

 1.4633, 0.5782,
0.4218

 106.2636, 0.4144,
0.3977

 0.2627, 0.7081,
0.2919

 135.5338, 0.4068,
0.3931

 0.0000, 0.0000,
0.0000

 169.7386, 0.4002,

0.3891

209.2624, 0.3944,
0.3855

■ 20.4777, 0.4786,
0.4302

■ 20.4777, 0.4786,
0.4302

■ 18.8632, 0.4988,
0.4312

■ 22.2697, 0.4560,
0.4243

■ 17.4075, 0.5162,
0.4277

■ 24.2450, 0.4321,
0.4144

■ 17.3260, 0.5172,
0.4275

■ 26.4128, 0.4084,
0.4017

■ 28.7805, 0.3856,
0.3874

■ 31.3547, 0.3643,
0.3722

■ 34.1419, 0.3449,
0.3570

■ 37.1481, 0.3274,
0.3422

■ 40.3791, 0.3119,
0.3282

■ 43.8402, 0.2981,
0.3150

Harmonies

Analogous

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



20.4777, 0.4992, 0.3633



20.4777, 0.4786, 0.4302



20.4777, 0.4139, 0.4883

Triad

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



20.4777, 0.4786, 0.4302



20.4777, 0.1818, 0.3376



20.4777, 0.2730, 0.2052

Complementary

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



20.4777, 0.4786, 0.4302



10.9032, 0.1893, 0.1754

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.



20.4777, 0.2020, 0.1903



20.4777, 0.4786, 0.4302



20.4777, 0.1561, 0.2501

Square

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



20.4777, 0.4786, 0.4302



20.4777, 0.2429, 0.4439



20.4777, 0.1634, 0.2030



20.4777, 0.3690, 0.2436

Rectangle

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



20.4777, 0.4786, 0.4302



20.4777, 0.3578, 0.5065



20.4777, 0.1634, 0.2030



20.4777, 0.2458, 0.1974

Sweetspot

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



20.4787, 0.4786, 0.4302



59.3797, 0.3544, 0.3646



10.5434, 0.4652, 0.2559



12.8559, 0.3612, 0.3699



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.



20.4787, 0.4786, 0.4302



32.2845, 0.5114, 0.4286



36.4346, 0.4030, 0.5000



8.2354, 0.3272, 0.3420



12.8619, 0.5159, 0.4286



0.4109, 0.4764, 0.4599

Inverse Universe

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



10.9032, 0.1893, 0.1754



14.4556, 0.1731, 0.1401



4.6381, 0.1711, 0.0892



7.8014, 0.2986, 0.3156



5.6243, 0.1711, 0.1359



0.2388, 0.1897, 0.2029

Previews

White Background



This preview shows how the Yxy color 20.4777, 0.4786, 0.4302 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 20.4777, 0.4786, 0.4302 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

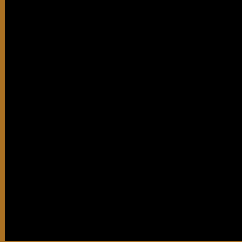
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.4777, 0.4786, 0.4302

Background



This preview shows how black text looks on a background with the Yxy color 20.4777, 0.4786, 0.4302.



This preview shows how white text looks on a background with the Yxy color 20.4777, 0.4786, 0.4302.

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

20.4777, 0.4786, 0.4302

Protanopia

20.7244, 0.4237, 0.4672

Deuteranopia

20.5726, 0.4574, 0.4487



Tritanopia

20.4990, 0.3979, 0.3187

Trichromacy



Original Color

20.4777, 0.4786, 0.4302

Protanomaly

20.4837, 0.4447, 0.4527

Deuteranomaly

20.5195, 0.4644, 0.4422

Tritanomaly

20.4774, 0.4340, 0.3651

Monochromacy



Original Color

20.4777, 0.4786, 0.4302

Achromatopsia

19.1202, 0.3127, 0.3290

Achromatomaly

19.1840, 0.3754, 0.3796

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.4777, 0.4786, 0.4302 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(170, 113, 35)` looks like.

```
.text, #text, p{  
    color:rgb(170, 113, 35)  
}
```

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(170, 113, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 113, 35) }
```

Border

The CSS property to change the border of an element to Yxy 20.4777, 0.4786, 0.4302 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(170, 113, 35) }
```

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

```
.border{ border-color:rgb(170, 113, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 113, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 113, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 113, 35);  
box-shadow:4px 4px 4px 4px rgb(170, 113,  
35) }
```


Background

The CSS property to change the background color of an element to Yxy 20.4777, 0.4786, 0.4302 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 113, 35) }
```

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

```
.background{ background-color: rgb(170,  
113, 35) }
```

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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