

Converting Colors

$Y_{xy}(19.7789, 0.4833, 0.5012)$

Have a look what the booklet for
Yxy(19.7789, 0.4833, 0.5012)
contains.

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Color

Yxy(20.0123, 0.4602, 0.4728)

Conversions

Conversions Part 1

Format	Color
Hex	977800
RGB	151, 120, 0
RGB Percent	59%, 47%, 0%
CMY	0.4078, 0.5294, 1.0000
CMYK	0.00, 0.21, 1.00, 0.41
HSL	48°, 100%, 30%
HSV	48°, 100%, 59%
XYZ	19.4790, 20.0123, 2.8359
YIQ	115.5890, 56.9960, -30.7480

Conversions

Conversions Part 2

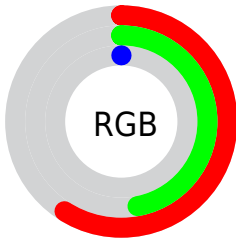
Format	Color
R_{YB}	39, 151, 0
Decimal	9926656
CIE Lab	51.85, 2.33, 57.70
CIE LCh	52, 57.747, 87.689
Yxy	20.0123, 0.4602, 0.4728
Android (android.graphics.Color)	4288116736 (0xFF977800)
YUV	115.5890, -56.9854, 31.0554
Hunter-Lab	44.7351, -0.5623, 27.5560

Details

The Yxy color **20.0123, 0.4602, 0.4728** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **3.2141, 0.1563, 0.0827**, and the grayscale version is **17.4978, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.4420, 0.4347, 0.4496**, and **7.1215, 0.4679, 0.4666** is the 20% darker color. If you saturate the color by 10%, you get **20.0132, 0.4602, 0.4728**, and if you desaturate by 10%, it is **20.8058, 0.4515, 0.4710**.

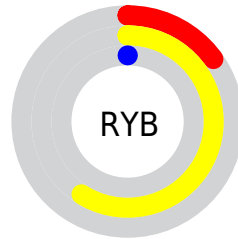
Distribution



Red (59%)

Green (47%)

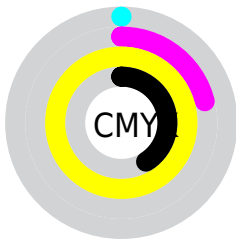
Blue (0%)



Red (15%)

Yellow (59%)

Blue (0%)

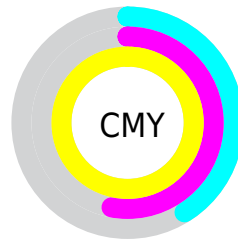


Cyan (0%)

Magenta (21%)

Yellow (100%)

Black (41%)



Cyan (41%)


Magenta (53%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.0123, 0.4602, 0.4728 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 20.0123, 0.4602, 0.4728 by changing the saturation by 10% instead.


 20.0123, 0.4602,
0.4728


 20.0123, 0.4602,
0.4728


251.9817, 0.3852,
0.4011


 12.4040, 0.4747,
0.4857


 43.4378, 0.4348,
0.4491


 7.0194, 0.4957,
0.5043


 60.0238, 0.4245,
0.4393

 3.4743, 0.4979,
0.5021

 80.3711, 0.4155,
0.4307

 1.3841, 0.5017,
0.4983

 104.8642, 0.4077,
0.4231


 0.2049, 0.5511,
0.4489


 133.8874, 0.4010,
0.4166

 0.0000, 0.0000,
0.0000


 167.8251, 0.3950,

0.4108


 207.0617, 0.3898,
0.4057


 20.0123, 0.4602,
0.4728


 20.0123, 0.4602,
0.4728


 20.0132, 0.4602,
0.4728

 20.8058, 0.4515,
0.4710

 21.6478, 0.4408,
0.4658

 22.5515, 0.4275,
0.4562

 23.5217, 0.4121,
0.4427

 24.5626, 0.3953,
0.4262

■ 25.6778, 0.3779,
0.4076

■ 26.8709, 0.3606,
0.3879

■ 28.1448, 0.3437,
0.3678

■ 29.5025, 0.3277,
0.3481

Harmonies

Analogous

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



20.0123, 0.5138, 0.4000



20.0123, 0.4602, 0.4728



20.0123, 0.3736, 0.5246

Triad

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



20.0123, 0.4602, 0.4728



20.0123, 0.1501, 0.2811



20.0123, 0.3207, 0.2124

Complementary

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



20.0123, 0.4602, 0.4728



3.2141, 0.1563, 0.0827

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.



20.0123, 0.2262, 0.1829



20.0123, 0.4602, 0.4728



20.0123, 0.1423, 0.2092

Square

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



20.0123, 0.4602, 0.4728



20.0123, 0.1953, 0.3973



20.0123, 0.1671, 0.1801



20.0123, 0.4308, 0.2641

Rectangle

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



20.0123, 0.4602, 0.4728



20.0123, 0.3089, 0.5219



20.0123, 0.1671, 0.1801



20.0123, 0.2858, 0.1998

Sweetspot

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



20.0133, 0.4602, 0.4728



47.9903, 0.3616, 0.3891



6.6875, 0.5994, 0.3076



10.7160, 0.3683, 0.3968



76.7769, 0.3127, 0.3290



12.5967, 0.3127, 0.3290

Same Dimension

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



20.0133, 0.4602, 0.4728



35.5750, 0.4611, 0.4721



25.3348, 0.3708, 0.5438



7.0075, 0.3265, 0.3466



17.0670, 0.4599, 0.4730



0.3036, 0.4391, 0.4896

Inverse Universe

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



3.2141, 0.1563, 0.0827



5.5397, 0.1556, 0.0800



2.7433, 0.1695, 0.0707



6.2216, 0.2988, 0.3108



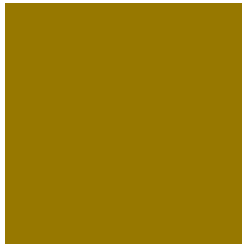
2.7692, 0.1566, 0.0836



0.0852, 0.1750, 0.1500

Previews

White Background



This preview shows how the Yxy color 20.0123, 0.4602, 0.4728 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



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 20.0123, 0.4602, 0.4728

Background



This preview shows how black text looks on a background with the Yxy color 20.0123, 0.4602, 0.4728.

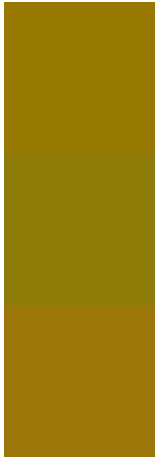


This preview shows how white text looks on a background with the Yxy color 20.0123, 0.4602, 0.4728.

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

20.0123, 0.4602, 0.4728

Protanopia

20.0061, 0.4386, 0.4858

Deuteranopia

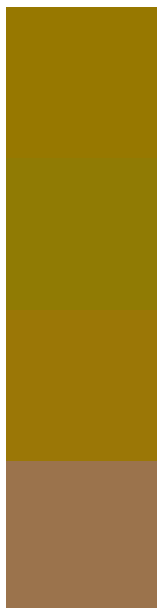
20.1469, 0.4679, 0.4612



Tritanopia

20.1125, 0.3628, 0.3161

Trichromacy



Original Color

20.0123, 0.4602, 0.4728

Protanomaly

20.1040, 0.4459, 0.4818

Deuteranomaly

20.1754, 0.4650, 0.4657

Tritanomaly

19.7518, 0.4170, 0.3931

Monochromacy



Original Color

20.0123, 0.4602, 0.4728

Achromatopsia

17.4647, 0.3127, 0.3290

Achromatomaly

17.8841, 0.3820, 0.4103

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.0123, 0.4602, 0.4728 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(151, 120, 0)` looks like.

```
.text, #text, p{  
    color:rgb(151, 120, 0)  
}
```

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(151, 120, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(151, 120, 0) }
```

Border

The CSS property to change the border of an element to Yxy 20.0123, 0.4602, 0.4728 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(151, 120, 0) }
```

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

```
.border{ border-color:rgb(151, 120, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(151, 120, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(151, 120, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(151, 120, 0);  
box-shadow:4px 4px 4px 4px rgb(151, 120,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 20.0123, 0.4602, 0.4728 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(151, 120, 0) }
```

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

```
.background{ background-color: rgb(151,  
120, 0) }
```

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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