

Converting Colors

$Y_{xy}(12.6780, 0.4416, 0.4595)$

Have a look what the booklet for
Yxy(12.6780, 0.4416, 0.4595)
contains.

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Color

Yxy(12.7986, 0.4416, 0.4599)

Conversions

Conversions Part 1

Format	Color
Hex	786219
RGB	120, 98, 25
RGB Percent	47%, 38%, 10%
CMY	0.5294, 0.6157, 0.9020
CMYK	0.00, 0.18, 0.79, 0.53
HSL	46°, 66%, 28%
HSV	46°, 79%, 47%
XYZ	12.2893, 12.7986, 2.7412
YIQ	96.2560, 36.5450, -18.0390

Conversions

Conversions Part 2

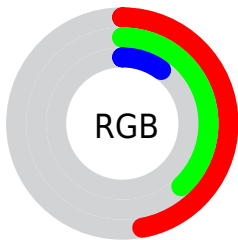
Format	Color
R_{YB}	54, 120, 25
Decimal	7889433
CIE _{Lab}	42.46, 0.86, 42.17
CIE _{LCh}	42, 42.182, 88.835
Yxy	12.7986, 0.4416, 0.4599
Android (android.graphics.Color)	4286079513 (0xFF786219)
YUV	96.2560, -35.1292, 20.8235
Hunter-Lab	35.7751, -1.2889, 20.4997

Details

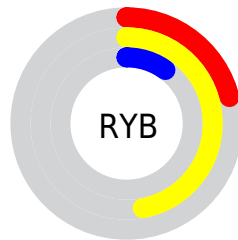
The Yxy color **12.7986, 0.4416, 0.4599** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **3.5945, 0.1806, 0.1351**, and the grayscale version is **11.8432, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.8018, 0.4138, 0.4315**, and **3.6849, 0.4620, 0.4714** is the 20% darker color. If you saturate the color by 10%, you get **12.2471, 0.4538, 0.4658**, and if you desaturate by 10%, it is **13.3917, 0.4271, 0.4499**.

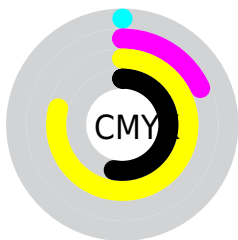
Distribution



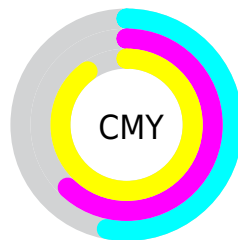
- Red (47%)
- Green (38%)
- Blue (10%)



- Red (21%)
- Yellow (47%)
- Blue (10%)



- Cyan (0%)
- Magenta (18%)
- Yellow (79%)
- Black (53%)





- Cyan (53%)
- Magenta (62%)
- Yellow (90%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7986, 0.4416, 0.4599 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 12.7986, 0.4416, 0.4599 by changing the saturation by 10% instead.

 12.7986, 0.4416,
0.4599


 12.7986, 0.4416,
0.4599


 209.6229, 0.3686,
0.3863


 7.2900, 0.4594,
0.4774


 30.9415, 0.4141,
0.4324


 3.6441, 0.4912,
0.5088

 44.3446, 0.4039,
0.4221

 1.4766, 0.4925,
0.5075

 61.1479, 0.3954,
0.4135

 0.2721, 0.5068,
0.4932

 81.7360, 0.3883,
0.4063

 0.0000, 0.0000,
0.0000

 106.4931, 0.3822,
0.4001

 135.8037, 0.3770,

0.3948

170.0521, 0.3725,
0.3903

12.7986, 0.4416,
0.4599

12.7986, 0.4416,
0.4599

12.2471, 0.4538,
0.4658

13.3917, 0.4271,
0.4499

11.7270, 0.4643,
0.4686

14.0272, 0.4108,
0.4363

11.6854, 0.4651,
0.4689

14.7081, 0.3935,
0.4201

15.4366, 0.3759,
0.4021

16.2145, 0.3586,
0.3833

■ 17.0437, 0.3419,
0.3642

■ 17.9259, 0.3262,
0.3455

■ 18.8626, 0.3116,
0.3276

■ 19.8554, 0.2982,
0.3106

Harmonies

Analogous

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



12.7986, 0.4864, 0.3988



12.7986, 0.4416, 0.4599



12.7986, 0.3664, 0.4963

Triad

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



12.7986, 0.4416, 0.4599



12.7986, 0.1697, 0.2873



12.7986, 0.3242, 0.2283

Complementary

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



12.7986, 0.4416, 0.4599



3.5945, 0.1806, 0.1351

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.



12.7986, 0.2410, 0.2008



12.7986, 0.4416, 0.4599



12.7986, 0.1627, 0.2246

Square

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



12.7986, 0.4416, 0.4599



12.7986, 0.2102, 0.3832



12.7986, 0.1864, 0.1981



12.7986, 0.4167, 0.2756

Rectangle

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



12.7986, 0.4416, 0.4599



12.7986, 0.3097, 0.4881



12.7986, 0.1864, 0.1981



12.7986, 0.2940, 0.2166

Sweetspot

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



12.7992, 0.4416, 0.4599



29.1743, 0.3508, 0.3745



4.8944, 0.5155, 0.2931



6.8143, 0.3557, 0.3801



62.0916, 0.3127, 0.3290



7.8288, 0.3127, 0.3290

Same Dimension

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



12.7992, 0.4416, 0.4599



20.7955, 0.4617, 0.4674



15.9195, 0.3749, 0.5156



4.4841, 0.3260, 0.3454



12.7248, 0.4654, 0.4687



59.3592, 0.4683, 0.4664

Inverse Universe

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



3.5945, 0.1806, 0.1351



4.0910, 0.1615, 0.0959



2.7370, 0.1962, 0.1059



4.0303, 0.2994, 0.3121



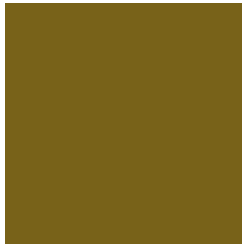
2.3549, 0.1584, 0.0902



10.1294, 0.1563, 0.0825

Previews

White Background



This preview shows how the Yxy color 12.7986, 0.4416, 0.4599 looks on a white 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

Black Background



This preview shows how the Yxy color 12.7986, 0.4416, 0.4599 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

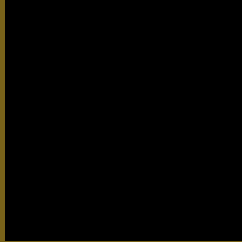
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7986, 0.4416, 0.4599

Background



This preview shows how black text looks on a background with the Yxy color 12.7986, 0.4416, 0.4599.



This preview shows how white text looks on a background with the Yxy color 12.7986, 0.4416, 0.4599.

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

12.7986, 0.4416, 0.4599

Protanopia

12.8927, 0.4253, 0.4706

Deuteranopia

12.6946, 0.4548, 0.4482



Tritanopia

12.7240, 0.3567, 0.3151

Trichromacy



Original Color

12.7986, 0.4416, 0.4599

Protanomaly

12.9019, 0.4315, 0.4660

Deuteranomaly

12.7254, 0.4501, 0.4517

Tritanomaly

12.6713, 0.3951, 0.3762

Monochromacy



Original Color

12.7986, 0.4416, 0.4599

Achromatopsia

11.6971, 0.3127, 0.3290

Achromatomaly

11.9948, 0.3648, 0.3905

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7986, 0.4416, 0.4599 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(120, 98, 25)` looks like.

```
.text, #text, p{  
    color:rgb(120, 98, 25)  
}
```

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(120, 98, 25) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 98, 25) }
```

Border

The CSS property to change the border of an element to Yxy 12.7986, 0.4416, 0.4599 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(120, 98, 25) }
```

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

```
.border{ border-color:rgb(120, 98, 25) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 98, 25)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 98, 25); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 98, 25);  
box-shadow:4px 4px 4px 4px rgb(120, 98,  
25) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7986, 0.4416, 0.4599 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 98, 25) }
```

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

```
.background{ background-color: rgb(120, 98,  
25) }
```

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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