

Converting Colors

$Y_{xy}(12.8445, 0.3025, 0.5980)$

Have a look what the booklet for
Yxy(12.8445, 0.3025, 0.5980)
contains.

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Color

Yxy(12.7742, 0.3025, 0.5980)

Conversions

Conversions Part 1

Format	Color
Hex	087500
RGB	8, 117, 0
RGB Percent	3%, 46%, 0%
CMY	0.9685, 0.5412, 0.9999
CMYK	0.93, 0.00, 1.00, 0.54
HSL	116°, 100%, 23%
HSV	116°, 100%, 46%
XYZ	6.4619, 12.7742, 2.1255
YIQ	71.0710, -27.4070, -59.4950

Conversions

Conversions Part 2

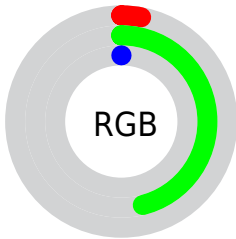
Format	Color
RYB	0, 117, 109
Decimal	554240
CIELab	42.42, -47.75, 46.87
CIELCh	42, 66.910, 135.528
Yxy	12.7742, 0.3025, 0.5980
Android (android.graphics.Color)	4278744320 (0xFF087500)
YUV	71.0710, -35.0380, -55.3133
Hunter-Lab	35.7410, -30.2745, 21.4928

Details

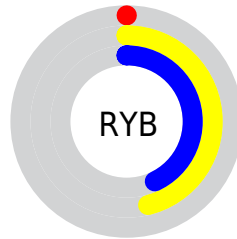
The Yxy color **12.7742, 0.3025, 0.5980** is a dark color, and the websafe version is hex **006600**. A complement of this color would be **4.5348, 0.3045, 0.1451**, and the grayscale version is **6.3804, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.7918, 0.3156, 0.5246**, and **4.0143, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **12.7746, 0.3025, 0.5980**, and if you desaturate by 10%, it is **12.8865, 0.3035, 0.5843**.

Distribution



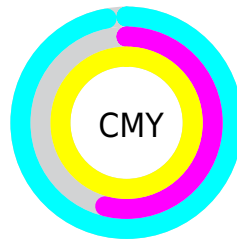
- Red (3%)
- Green (46%)
- Blue (0%)



- Red (0%)
- Yellow (46%)
- Blue (43%)



- Cyan (93%)
- Magenta (0%)
- Yellow (100%)
- Black (54%)



- Cyan (97%)
- Magenta (54%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7742, 0.3025, 0.5980 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 12.7742, 0.3025, 0.5980 by changing the saturation by 10% instead.


 12.7742, 0.3025,
0.5980


 12.7742, 0.3025,
0.5980


209.4654, 0.3210,
0.4262


 7.2732, 0.2863,
0.6567


 30.8975, 0.3159,
0.5248


 3.6336, 0.2552,
0.7448

 44.2887, 0.3184,
0.5006


 1.4708, 0.0877,
0.9123

 61.0787, 0.3198,
0.4814

 0.2680, 0.0000,
1.0000


 81.6520, 0.3206,
0.4660

 0.0000, 0.0000,
0.0000

 106.3929, 0.3209,
0.4533

 135.6858, 0.3211,

0.4428


 169.9152, 0.3211,
0.4338


 12.7742, 0.3025,
0.5980


 12.7742, 0.3025,
0.5980


 12.7746, 0.3025,
0.5980

 12.8865, 0.3035,
0.5843

 13.0599, 0.3053,
0.5655

 13.3108, 0.3071,
0.5400

 13.6469, 0.3087,
0.5095

 14.0750, 0.3100,
0.4765

■ 14.6010, 0.3111,
0.4429

■ 15.2307, 0.3118,
0.4106

■ 15.9691, 0.3123,
0.3805

■ 16.8210, 0.3126,
0.3532

Harmonies

Analogous

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



12.7742, 0.4210, 0.5527



12.7742, 0.3025, 0.5980



12.7742, 0.1927, 0.4948

Triad

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



12.7742, 0.3025, 0.5980



12.7742, 0.1171, 0.1514



12.7742, 0.5399, 0.2867

Complementary

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



12.7742, 0.3025, 0.5980



4.5348, 0.3045, 0.1451

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.



12.7742, 0.4093, 0.2167



12.7742, 0.3025, 0.5980



12.7742, 0.1676, 0.1434

Square

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



12.7742, 0.3025, 0.5980



12.7742, 0.1025, 0.2000



12.7742, 0.2655, 0.1659



12.7742, 0.5779, 0.3643

Rectangle

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



12.7742, 0.3025, 0.5980



12.7742, 0.1406, 0.3718



12.7742, 0.2655, 0.1659



12.7742, 0.5038, 0.2622

Sweetspot

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



12.7747, 0.3025, 0.5980



27.1770, 0.3118, 0.4131



14.3501, 0.4341, 0.4935



6.1593, 0.3115, 0.4236



60.3827, 0.3127, 0.3290



7.3239, 0.3127, 0.3290

Same Dimension

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



12.7747, 0.3025, 0.5980



22.8502, 0.3018, 0.5985



12.9427, 0.2779, 0.5205



4.1091, 0.3126, 0.3508



14.0717, 0.3024, 0.5981



68.4295, 0.3011, 0.5991

Inverse Universe

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



4.5348, 0.3045, 0.1451



8.0959, 0.3040, 0.1448



4.2029, 0.4541, 0.2276



3.7458, 0.3127, 0.3080



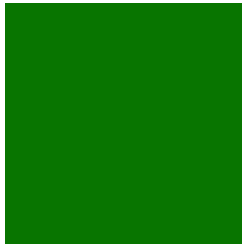
4.9930, 0.3044, 0.1450



24.1801, 0.3035, 0.1445

Previews

White Background



This preview shows how the Yxy color 12.7742, 0.3025, 0.5980 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



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 12.7742, 0.3025, 0.5980

Background



This preview shows how black text looks on a background with the Yxy color 12.7742, 0.3025, 0.5980.



This preview shows how white text looks on a background with the Yxy color 12.7742, 0.3025, 0.5980.

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

12.7742, 0.3025, 0.5980

Protanopia

12.6251, 0.4401, 0.4888

Deuteranopia

12.6902, 0.4556, 0.4492



Tritanopia

12.9234, 0.2389, 0.3071

Trichromacy



Original Color

12.7742, 0.3025, 0.5980

Protanomaly

11.8039, 0.3710, 0.5436

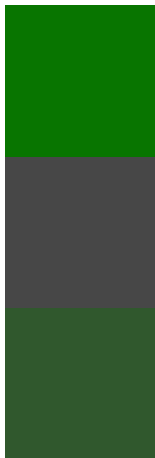
Deuteranomaly

11.5769, 0.3806, 0.5177

Tritanomaly

12.4537, 0.2688, 0.4315

Monochromacy



Original Color

12.7742, 0.3025, 0.5980

Achromatopsia

6.3010, 0.3127, 0.3290

Achromatomaly

7.7973, 0.3104, 0.4671

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7742, 0.3025, 0.5980 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(8, 117, 0)` looks like.

```
.text, #text, p{  
    color:rgb(8, 117, 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(8, 117, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(8, 117, 0) }
```

Border

The CSS property to change the border of an element to Yxy 12.7742, 0.3025, 0.5980 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(8, 117, 0) }
```

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

```
.border{ border-color:rgb(8, 117, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(8, 117, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(8, 117, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(8, 117, 0); box-shadow:4px  
4px 4px 4px rgb(8, 117, 0) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7742, 0.3025, 0.5980 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(8, 117, 0) }
```

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

```
.background{ background-color: rgb(8, 117,  
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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