

Converting Colors

$Y_{xy}(22.8370, 0.3015, 0.5988)$

Have a look what the booklet for
Yxy(22.8370, 0.3015, 0.5988)
contains.

Yxy(22.8405, 0.3016, 0.5988)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(22.8405, 0.3016, 0.5988)

Conversions

Conversions Part 1

Format	Color
Hex	099900
RGB	9, 153, 0
RGB Percent	4%, 60%, 0%
CMY	0.9644, 0.4000, 1.0000
CMYK	0.94, 0.00, 1.00, 0.40
HSL	116°, 100%, 30%
HSV	116°, 100%, 60%
XYZ	11.5042, 22.8405, 3.7991
YIQ	92.5020, -36.7110, -78.1110

Conversions

Conversions Part 2

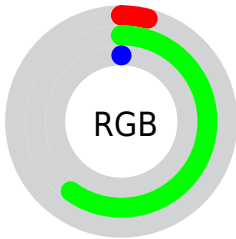
Format	Color
RYB	0, 153, 144
Decimal	628992
CIELab	54.91, -58.31, 56.90
CIELCh	55, 81.470, 135.699
Yxy	22.8405, 0.3016, 0.5988
Android (android.graphics.Color)	4278819072 (0xFF099900)
YUV	92.5020, -45.6035, -73.2313
Hunter-Lab	47.7917, -40.6680, 28.7411

Details

The Yxy color **22.8405, 0.3016, 0.5988** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **8.2218, 0.3063, 0.1461**, and the grayscale version is **10.9453, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.3184, 0.3137, 0.5353**, and **9.1143, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **22.8417, 0.3016, 0.5987**, and if you desaturate by 10%, it is **23.0062, 0.3027, 0.5879**.

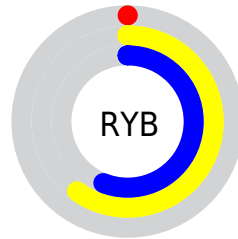
Distribution



Red (4%)

Green (60%)

Blue (0%)



Red (0%)

Yellow (60%)

Blue (56%)

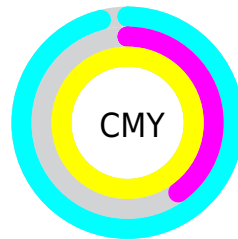


Cyan (94%)

Magenta (0%)

Yellow (100%)

Black (40%)



Cyan (96%)


Magenta (40%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 22.8405, 0.3016, 0.5988 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 22.8405, 0.3016, 0.5988 by changing the saturation by 10% instead.


 22.8405, 0.3016,
0.5988


 22.8405, 0.3016,
0.5988


266.9047, 0.3207,
0.4391


 14.4758, 0.2883,
0.6443


 48.1313, 0.3139,
0.5355


 8.4523, 0.2681,
0.7125

 65.8262, 0.3167,
0.5131


 4.3857, 0.2218,
0.7782

 87.3999, 0.3184,
0.4949

 1.8916, 0.0713,
0.9287

 113.2368, 0.3194,
0.4798


 0.5433, 0.0000,
1.0000


 143.7213, 0.3201,
0.4671

 0.0000, 0.0000,
0.0000


 179.2379, 0.3205,


0.4564


 220.1709, 0.3206,
0.4471


 22.8405, 0.3016,
0.5988


 22.8405, 0.3016,
0.5988


 22.8417, 0.3016,
0.5987

 23.0062, 0.3027,
0.5879

 23.2894, 0.3044,
0.5704

 23.7165, 0.3062,
0.5455

 24.3031, 0.3078,
0.5149

 25.0631, 0.3093,
0.4811

■ 26.0085, 0.3105,
0.4466

■ 27.1506, 0.3114,
0.4132

■ 28.4995, 0.3120,
0.3821

■ 30.0648, 0.3125,
0.3540

Harmonies

Analogous

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



22.8405, 0.4196, 0.5527



22.8405, 0.3016, 0.5988



22.8405, 0.1917, 0.4944

Triad

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



22.8405, 0.3016, 0.5988



22.8405, 0.1169, 0.1509



22.8405, 0.5411, 0.2869

Complementary

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



22.8405, 0.3016, 0.5988



8.2218, 0.3063, 0.1461

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.



22.8405, 0.4105, 0.2168



22.8405, 0.3016, 0.5988



22.8405, 0.1676, 0.1431

Square

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



22.8405, 0.3016, 0.5988



22.8405, 0.1021, 0.1992



22.8405, 0.2661, 0.1658



22.8405, 0.5785, 0.3647

Rectangle

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



22.8405, 0.3016, 0.5988



22.8405, 0.1398, 0.3708



22.8405, 0.2661, 0.1658



22.8405, 0.5050, 0.2623

Sweetspot

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



22.8417, 0.3016, 0.5987



48.4911, 0.3113, 0.4151



26.3579, 0.4313, 0.4958



10.5258, 0.3110, 0.4278



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.



22.8417, 0.3016, 0.5987



40.8776, 0.3012, 0.5991



23.1799, 0.2777, 0.5199



6.9422, 0.3125, 0.3519



18.8831, 0.3018, 0.5986



0.2864, 0.3104, 0.5917

Inverse Universe

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



8.2218, 0.3063, 0.1461



14.6950, 0.3060, 0.1459



7.4557, 0.4652, 0.2336



6.3050, 0.3128, 0.3070



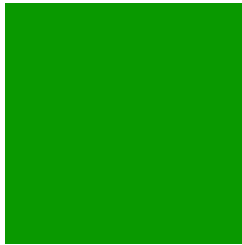
6.8001, 0.3064, 0.1462



0.1065, 0.3133, 0.1500

Previews

White Background



This preview shows how the Yxy color 22.8405, 0.3016, 0.5988 looks on a white background.

Color Contrast Check

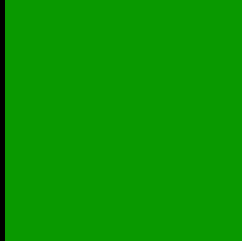
Large Text (above 18pt) WCAG AA ✓ Pass

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 22.8405, 0.3016, 0.5988 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

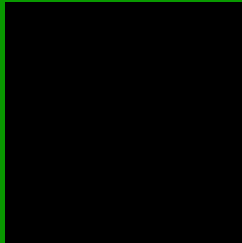
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 22.8405, 0.3016, 0.5988

Background



This preview shows how black text looks on a background with the Yxy color 22.8405, 0.3016, 0.5988.



This preview shows how white text looks on a background with the Yxy color 22.8405, 0.3016, 0.5988.

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

22.8405, 0.3016, 0.5988

Protanopia

22.4356, 0.4394, 0.4893

Deuteranopia

22.4176, 0.4579, 0.4504



Tritanopia

22.8029, 0.2373, 0.3060

Trichromacy



Original Color

22.8405, 0.3016, 0.5988



Protanomaly

21.0066, 0.3681, 0.5459



Deuteranomaly

20.5702, 0.3799, 0.5215



Tritanomaly

21.9975, 0.2678, 0.4343

Monochromacy



Original Color

22.8405, 0.3016, 0.5988



Achromatopsia

10.9462, 0.3127, 0.3290



Achromatomaly

13.6014, 0.3092, 0.4722

CSS Examples

Text

The CSS property to change the color of the text to Yxy 22.8405, 0.3016, 0.5988 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(9, 153, 0)` looks like.

```
.text, #text, p{  
    color:rgb(9, 153, 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(9, 153, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 153, 0) }
```

Border

The CSS property to change the border of an element to Yxy 22.8405, 0.3016, 0.5988 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(9, 153, 0) }
```

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

```
.border{ border-color:rgb(9, 153, 0) }
```

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

Here you see how a box with a 4 pixel rgb(9, 153, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 153, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(9, 153, 0); box-shadow:4px  
4px 4px 4px rgb(9, 153, 0) }
```


Background

The CSS property to change the background color of an element to Yxy 22.8405, 0.3016, 0.5988 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 153, 0) }
```

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

```
.background{ background-color: rgb(9, 153,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor