

# Converting Colors

$Y_{xy}(27.5138, 0.3074, 0.5941)$

Have a look what the booklet for  
Yxy(27.5138, 0.3074, 0.5941)  
contains.

<b>Yxy(27.6125, 0.3075, 0.5940)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(27.6125, 0.3075, 0.5940)**

# Conversions

## Conversions Part 1

Format	Color
Hex	22A600
RGB	34, 166, 0
RGB Percent	13%, 65%, 0%
CMY	0.8670, 0.3490, 0.9996
CMYK	0.80, 0.00, 1.00, 0.35
HSL	108°, 100%, 33%
HSV	108°, 100%, 65%
XYZ	14.2943, 27.6125, 4.5788
YIQ	107.6080, -25.3860, -79.6100

# Conversions

## Conversions Part 2

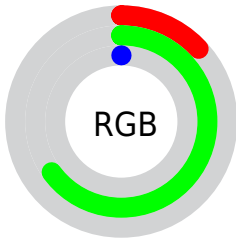
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 166, 132
Decimal	2270720
CIELab	59.54, -59.69, 60.69
CIELCh	60, 85.125, 134.528
Yxy	27.6125, 0.3075, 0.5940
Android (android.graphics.Color)	4280460800 (0xFF22A600)
YUV	107.6080, -53.0507, -64.5542
Hunter-Lab	52.5476, -43.4015, 31.6170

# Details

The Yxy color **27.6125, 0.3075, 0.5940** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **7.6762, 0.2702, 0.1263**, and the grayscale version is **15.0347, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.7268, 0.3182, 0.5349**, and **11.5883, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **27.6121, 0.3075, 0.5941**, and if you desaturate by 10%, it is **27.9218, 0.3110, 0.5822**.

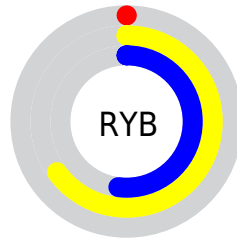
# Distribution



Red (13%)

Green (65%)

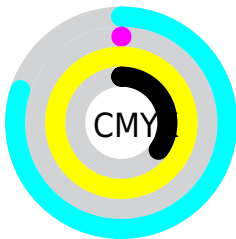
Blue (0%)



Red (0%)

Yellow (65%)

Blue (52%)

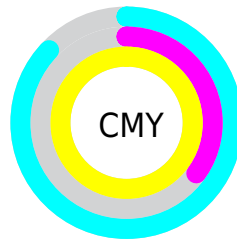


Cyan (80%)

Magenta (0%)

Yellow (100%)

Black (35%)



Cyan (87%)

Magenta (35%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.6125, 0.3075, 0.5940 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 27.6125, 0.3075, 0.5940 by changing the saturation by 10% instead.




 27.6125, 0.3075,  
0.5940


 27.6125, 0.3075,  
0.5940


290.6106, 0.3232,  
0.4419

 18.0338, 0.2962,  
0.6352


 55.8652, 0.3180,  
0.5352

 10.9742, 0.2773,  
0.6898


 75.3079, 0.3203,  
0.5140

 6.0495, 0.2426,  
0.7574

 98.8074, 0.3217,  
0.4965

 2.8752, 0.1723,  
0.8277

 126.7481, 0.3226,  
0.4819


 1.0669, 0.0000,  
1.0000


 159.5144, 0.3230,  
0.4696


 0.0000, 0.0000,  
0.0000


 197.4907, 0.3232,


0.4590


 241.0613, 0.3232,  
0.4499

 27.6125, 0.3075,  
0.5940

 27.6125, 0.3075,  
0.5940


 27.6121, 0.3075,  
0.5941

 27.9218, 0.3110,  
0.5822

 28.3579, 0.3144,  
0.5642

 28.9430, 0.3170,  
0.5396

 29.6900, 0.3185,  
0.5099

 30.6104, 0.3191,  
0.4775

■ 31.7145, 0.3189,  
0.4443

■ 33.0117, 0.3179,  
0.4120

■ 34.5110, 0.3165,  
0.3816

■ 36.2205, 0.3147,  
0.3538

# Harmonies

## Analogous

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



27.6125, 0.4239, 0.5466



27.6125, 0.3075, 0.5940



27.6125, 0.1979, 0.4974

# Triad

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



27.6125, 0.3075, 0.5940



27.6125, 0.1181, 0.1543



27.6125, 0.5334, 0.2852

# Complementary

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



27.6125, 0.3075, 0.5940



7.6762, 0.2702, 0.1263

# 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.



27.6125, 0.4030, 0.2160



27.6125, 0.3075, 0.5940



27.6125, 0.1669, 0.1452

# Square

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



27.6125, 0.3075, 0.5940



27.6125, 0.1047, 0.2045



27.6125, 0.2623, 0.1665



27.6125, 0.5750, 0.3623



# Rectangle

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



27.6125, 0.3075, 0.5940



27.6125, 0.1449, 0.3773



27.6125, 0.2623, 0.1665



27.6125, 0.4968, 0.2609

# Sweetspot

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



27.6137, 0.3075, 0.5940



59.7521, 0.3180, 0.4139



24.0892, 0.4632, 0.4704



13.1500, 0.3184, 0.4269



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290



# Same Dimension

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



27.6137, 0.3075, 0.5940



50.0365, 0.3066, 0.5948



27.4815, 0.2895, 0.5621



8.4787, 0.3146, 0.3521



21.4267, 0.3079, 0.5937



0.5414, 0.3295, 0.5766



# Inverse Universe

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



7.6762, 0.2702, 0.1263



13.8316, 0.2693, 0.1257



9.4418, 0.4075, 0.2019



7.5883, 0.3106, 0.3065



5.9691, 0.2707, 0.1265

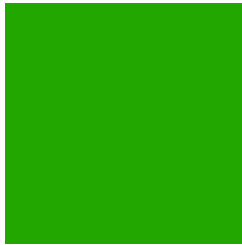


0.1642, 0.2883, 0.1362



# Previews

## White Background



This preview shows how the Yxy color 27.6125, 0.3075, 0.5940 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

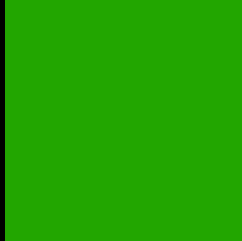
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 27.6125, 0.3075, 0.5940 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 27.6125, 0.3075, 0.5940**

## **Background**



This preview shows how black text looks on a background with the Yxy color 27.6125, 0.3075, 0.5940.



This preview shows how white text looks on a background with the Yxy color 27.6125, 0.3075, 0.5940.

# 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

27.6125, 0.3075, 0.5940

### Protanopia

27.2220, 0.4402, 0.4887

### Deuteranopia

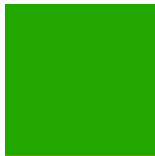
27.0390, 0.4592, 0.4503



## Tritanopia

27.4377, 0.2399, 0.3060

# Trichromacy



## Original Color

27.6125, 0.3075, 0.5940



## Protanomaly

25.7781, 0.3784, 0.5378



## Deuteranomaly

25.0553, 0.3906, 0.5141



## Tritanomaly

26.4864, 0.2742, 0.4335

# Monochromacy



## Original Color

27.6125, 0.3075, 0.5940



## Achromatopsia

14.9960, 0.3127, 0.3290



## Achromatomaly

17.8795, 0.3189, 0.4628

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.6125, 0.3075, 0.5940 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(34, 166, 0)` looks like.

```
.text, #text, p{  
  color:rgb(34, 166, 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(34, 166, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(34, 166, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 27.6125, 0.3075, 0.5940 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(34, 166, 0) }
```

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

```
.border{ border-color:rgb(34, 166, 0) }
```

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

Here you see how a box with a 4 pixel rgb(34, 166, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(34, 166, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(34, 166, 0);  
box-shadow:4px 4px 4px 4px rgb(34, 166, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 27.6125, 0.3075, 0.5940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(34, 166, 0) }
```

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

```
.background{ background-color: rgb(34, 166,  
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