

# Converting Colors

$Y_{xy}(21.8096, 0.3390, 0.5565)$

Have a look what the booklet for  
Yxy(21.8096, 0.3390, 0.5565)  
contains.

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**Color**

**Yxy(21.8723, 0.3386, 0.5571)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4D9112
RGB	77, 145, 18
RGB Percent	30%, 57%, 7%
CMY	0.6981, 0.4313, 0.9292
CMYK	0.47, 0.00, 0.88, 0.43
HSL	92°, 78%, 32%
HSV	92°, 88%, 57%
XYZ	13.2938, 21.8723, 4.0949
YIQ	110.1900, 0.2390, -53.9130

# Conversions

## Conversions Part 2

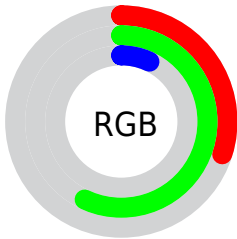
Format	Color
<b>RYB</b>	18, 145, 86
Decimal	5083410
CIELab	53.89, -41.71, 53.49
CIELCh	54, 67.836, 127.946
Yxy	21.8723, 0.3386, 0.5571
Android (android.graphics.Color)	4283273490 (0xFF4D9112)
YUV	110.1900, -45.4497, -29.1076
Hunter-Lab	46.7678, -31.1050, 27.5461

# Details

The Yxy color **21.8723, 0.3386, 0.5571** is a dark color, and the websafe version is hex **669900**. A complement of this color would be **4.4607, 0.2248, 0.1093**, and the grayscale version is **15.7835, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.2742, 0.3409, 0.5050**, and **8.0988, 0.3071, 0.5944** is the 20% darker color. If you saturate the color by 10%, you get **21.5332, 0.3342, 0.5706**, and if you desaturate by 10%, it is **22.2793, 0.3413, 0.5387**.

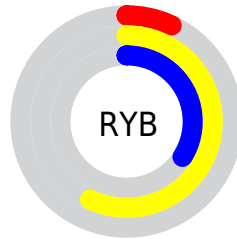
# Distribution



Red (30%)

Green (57%)

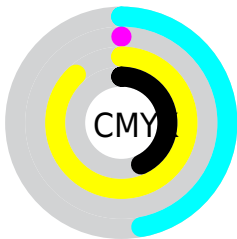
Blue (7%)



Red (7%)

Yellow (57%)

Blue (34%)

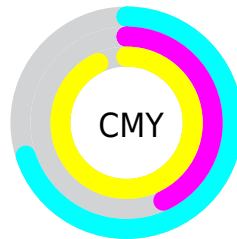


Cyan (47%)

Magenta (0%)

Yellow (88%)

Black (43%)



Cyan (70%)

Magenta (43%)

Yellow (93%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.8723, 0.3386, 0.5571 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 21.8723, 0.3386, 0.5571 by changing the saturation by 10% instead.





 21.8723, 0.3386,  
0.5571


 21.8723, 0.3386,  
0.5571


261.8787, 0.3342,  
0.4241


 13.7631, 0.3330,  
0.5945


 46.5348, 0.3409,  
0.5048


 7.9561, 0.3230,  
0.6489


 63.8570, 0.3404,  
0.4862


 4.0669, 0.2923,  
0.7077

 85.0189, 0.3395,  
0.4710

 1.7110, 0.2058,  
0.7942

 110.4049, 0.3384,  
0.4583


 0.4308, 0.0000,  
1.0000

 140.3996, 0.3373,  
0.4477

 0.0000, 0.0000,  
0.0000


 175.3871, 0.3362,

0.4387


 215.7520, 0.3352,  
0.4309

 21.8723, 0.3386,  
0.5571


 21.8723, 0.3386,  
0.5571

 21.5332, 0.3342,  
0.5706


 22.2793, 0.3413,  
0.5387

 21.4569, 0.3332,  
0.5737

 22.7602, 0.3421,  
0.5154

 23.3211, 0.3409,  
0.4886

 23.9667, 0.3380,  
0.4597

 24.7013, 0.3339,  
0.4301

■ 25.5286, 0.3288,  
0.4010

■ 26.4523, 0.3232,  
0.3732

■ 27.4759, 0.3172,  
0.3472

■ 28.6026, 0.3113,  
0.3234

# Harmonies

## Analogous

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



21.8723, 0.4413, 0.5105



21.8723, 0.3386, 0.5571



21.8723, 0.2349, 0.4988

# Triad

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



21.8723, 0.3386, 0.5571



21.8723, 0.1310, 0.1797



21.8723, 0.4840, 0.2783

# Complementary

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



21.8723, 0.3386, 0.5571



4.4607, 0.2248, 0.1093

# 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.



21.8723, 0.3638, 0.2167



21.8723, 0.3386, 0.5571



21.8723, 0.1693, 0.1624

# Square

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



21.8723, 0.3386, 0.5571



21.8723, 0.1263, 0.2390



21.8723, 0.2469, 0.1760



21.8723, 0.5434, 0.3501



# Rectangle

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



21.8723, 0.3386, 0.5571



21.8723, 0.1793, 0.4054



21.8723, 0.2469, 0.1760



21.8723, 0.4476, 0.2562

# Sweetspot

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



21.8732, 0.3386, 0.5571



45.8734, 0.3282, 0.3981



12.6810, 0.5032, 0.4227



10.0991, 0.3299, 0.4069



72.9347, 0.3127, 0.3290



11.2805, 0.3127, 0.3290



# Same Dimension

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



21.8732, 0.3386, 0.5571



38.3207, 0.3318, 0.5748



20.4408, 0.2996, 0.5819



6.1443, 0.3182, 0.3513



18.4177, 0.3336, 0.5733



0.1890, 0.3682, 0.5458



# Inverse Universe

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



4.4607, 0.2248, 0.1093



6.4345, 0.2094, 0.0927



8.3707, 0.3278, 0.1644



5.3883, 0.3068, 0.3068



3.1475, 0.2119, 0.0941



0.0432, 0.2593, 0.1202



# Previews

## White Background



This preview shows how the Yxy color 21.8723, 0.3386, 0.5571 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 21.8723, 0.3386, 0.5571 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 21.8723, 0.3386, 0.5571**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.8723, 0.3386, 0.5571.



This preview shows how white text looks on a background with the Yxy color 21.8723, 0.3386, 0.5571.

# 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

21.8723, 0.3386, 0.5571

### Protanopia

21.7468, 0.4368, 0.4848

### Deuteranopia

21.6116, 0.4564, 0.4494



## Tritanopia

21.8362, 0.2622, 0.3083

# Trichromacy



## Original Color

21.8723, 0.3386, 0.5571

## Protanomaly

21.3527, 0.3972, 0.5144

## Deuteranomaly

20.7949, 0.4104, 0.4906

## Tritanomaly

21.4408, 0.2978, 0.4117

# Monochromacy



## Original Color

21.8723, 0.3386, 0.5571

## Achromatopsia

15.5926, 0.3127, 0.3290

## Achromatomaly

17.2984, 0.3331, 0.4281

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.8723, 0.3386, 0.5571 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(77, 145, 18)` looks like.

```
.text, #text, p{  
    color:rgb(77, 145, 18)  
}
```

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(77, 145, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 145, 18) }
```

## Border

The CSS property to change the border of an element to Yxy 21.8723, 0.3386, 0.5571 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(77, 145, 18) }
```

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

```
.border{ border-color:rgb(77, 145, 18) }
```

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

Here you see how a box with a 4 pixel rgb(77, 145, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 145, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 145, 18);  
box-shadow:4px 4px 4px 4px rgb(77, 145,  
18) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.8723, 0.3386, 0.5571 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 145, 18) }
```

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

```
.background{ background-color: rgb(77, 145,  
18) }
```

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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