

# Converting Colors

$Y_{xy}(50.3367, 0.3535, 0.5575)$

Have a look what the booklet for  
Yxy(50.3367, 0.3535, 0.5575)  
contains.

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**Color**

**Yxy(50.2681, 0.3534, 0.5576)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81D100
RGB	129, 209, 0
RGB Percent	51%, 82%, 0%
CMY	0.4939, 0.1804, 0.9999
CMYK	0.38, 0.00, 1.00, 0.18
HSL	83°, 100%, 41%
HSV	83°, 100%, 82%
XYZ	31.8593, 50.2681, 8.0234
YIQ	161.2540, 19.4090, -81.9590

# Conversions

## Conversions Part 2

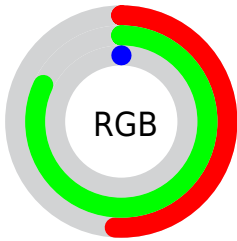
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 209, 80
Decimal	8507648
CIELab	76.23, -50.23, 75.17
CIELCh	76, 90.414, 123.752
Yxy	50.2681, 0.3534, 0.5576
Android (android.graphics.Color)	4286697728 (0xFF81D100)
YUV	161.2540, -79.4982, -28.2868
Hunter-Lab	70.9000, -43.8651, 42.9204

# Details

The Yxy color **50.2681, 0.3534, 0.5576** is a dark color, and the websafe version is hex **66CC00**. The color can be described as dark washed chartreuse. A complement of this color would be **6.3078, 0.1809, 0.0770**, and the grayscale version is **36.1430, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8515, 0.3580, 0.5106**, and **24.3764, 0.3308, 0.5756** is the 20% darker color. If you saturate the color by 10%, you get **50.2696, 0.3534, 0.5576**, and if you desaturate by 10%, it is **50.9753, 0.3575, 0.5480**.

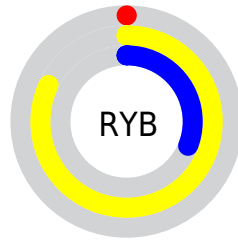
# Distribution



Red (51%)

Green (82%)

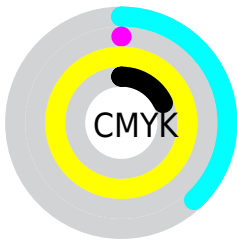
Blue (0%)



Red (0%)

Yellow (82%)

Blue (31%)

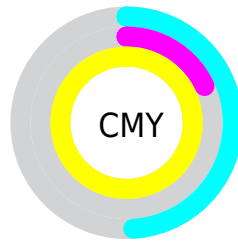


Cyan (38%)

Magenta (0%)

Yellow (100%)

Black (18%)



Cyan (49%)

Magenta (18%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.2681, 0.3534, 0.5576 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 50.2681, 0.3534, 0.5576 by changing the saturation by 10% instead.




 50.2681, 0.3534,  
0.5576


 50.2681, 0.3534,  
0.5576

387.7135, 0.3451,  
0.4427


 35.6265, 0.3506,  
0.5835


 90.5720, 0.3539,  
0.5173

 24.1458, 0.3443,  
0.6141


 117.0030, 0.3530,  
0.5016

 15.4418, 0.3333,  
0.6533

 148.1326, 0.3518,  
0.4882

 9.1301, 0.3083,  
0.6917

 184.3453, 0.3505,  
0.4765

 4.8261, 0.2651,  
0.7349

 226.0252, 0.3491,  
0.4664

 2.1456, 0.1834,  
0.8166

 273.5570, 0.3477,

 0.6901, 0.0000,

0.4575

1.0000

327.3250, 0.3464,  
0.4497

■ 0.0000, 0.0000,  
0.0000

■ 50.2681, 0.3534,  
0.5576

■ 50.2681, 0.3534,  
0.5576

■ 50.2696, 0.3534,  
0.5576

■ 50.9753, 0.3575,  
0.5480

■ 51.7886, 0.3597,  
0.5338

■ 52.7308, 0.3595,  
0.5146

■ 53.8137, 0.3569,  
0.4913

■ 55.0473, 0.3521,  
0.4649

■ 56.4404, 0.3457,  
0.4369

■ 58.0011, 0.3382,  
0.4084

■ 59.7366, 0.3299,  
0.3805

■ 61.6540, 0.3213,  
0.3539

# Harmonies

## Analogous

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



50.2681, 0.4550, 0.5008



50.2681, 0.3534, 0.5576



50.2681, 0.2476, 0.5165

# Triad

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



50.2681, 0.3534, 0.5576



50.2681, 0.1271, 0.1838



50.2681, 0.4710, 0.2683

# Complementary

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



50.2681, 0.3534, 0.5576



6.3078, 0.1809, 0.0770

# 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.



50.2681, 0.3461, 0.2086



50.2681, 0.3534, 0.5576



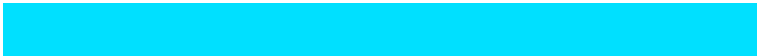
50.2681, 0.1606, 0.1617

# Square

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



50.2681, 0.3534, 0.5576



50.2681, 0.1271, 0.2508



50.2681, 0.2327, 0.1713



50.2681, 0.5423, 0.3394



# Rectangle

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



50.2681, 0.3534, 0.5576



50.2681, 0.1883, 0.4274



50.2681, 0.2327, 0.1713



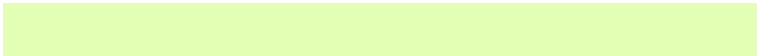
50.2681, 0.4320, 0.2466

# Sweetspot

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



50.2703, 0.3534, 0.5576



90.8802, 0.3385, 0.4094



18.8131, 0.5803, 0.3774



19.2225, 0.3418, 0.4216



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



50.2703, 0.3534, 0.5576



78.7329, 0.3527, 0.5582



45.8446, 0.3033, 0.5974



13.5624, 0.3208, 0.3524



31.0541, 0.3543, 0.5569



1.7812, 0.3662, 0.5474



# Inverse Universe

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



6.3078, 0.1809, 0.0770



9.7920, 0.1798, 0.0764



14.4436, 0.2872, 0.1356



11.6349, 0.3041, 0.3054



3.9413, 0.1824, 0.0778



0.2654, 0.2034, 0.0894



# Previews

## White Background



This preview shows how the Yxy color 50.2681, 0.3534, 0.5576 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 50.2681, 0.3534, 0.5576 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

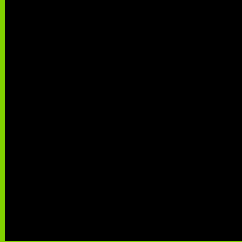
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 50.2681, 0.3534, 0.5576**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.2681, 0.3534, 0.5576.



This preview shows how white text looks on a background with the Yxy color 50.2681, 0.3534, 0.5576.

# 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

50.2681, 0.3534, 0.5576

### Protanopia

49.8153, 0.4400, 0.4888

### Deuteranopia

49.4372, 0.4648, 0.4531



## Tritanopia

49.9121, 0.2707, 0.3079

# Trichromacy



## Original Color

50.2681, 0.3534, 0.5576

## Protanomaly

49.3036, 0.4059, 0.5159

## Deuteranomaly

48.3401, 0.4231, 0.4939

## Tritanomaly

48.4974, 0.3158, 0.4227

# Monochromacy



## Original Color

50.2681, 0.3534, 0.5576

## Achromatopsia

35.6400, 0.3127, 0.3290

## Achromatomaly

39.1897, 0.3474, 0.4432

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.2681, 0.3534, 0.5576 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(129, 209, 0)` looks like.

```
.text, #text, p{  
    color:rgb(129, 209, 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(129, 209, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 209, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 50.2681, 0.3534, 0.5576 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(129, 209, 0) }
```

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

```
.border{ border-color:rgb(129, 209, 0) }
```

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

Here you see how a box with a 4 pixel rgb(129, 209, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 209, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 209, 0);  
box-shadow:4px 4px 4px 4px rgb(129, 209,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.2681, 0.3534, 0.5576 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 209, 0) }
```

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

```
.background{ background-color: rgb(129,  
209, 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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