

# Converting Colors

$Yxy(49.7956, 0.3014, 0.4763)$

Have a look what the booklet for  
Yxy(49.7956, 0.3014, 0.4763)  
contains.

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# Color

**Yxy(49.7138, 0.3010, 0.4761)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68D170
RGB	104, 209, 112
RGB Percent	41%, 82%, 44%
CMY	0.5924, 0.1804, 0.5607
CMYK	0.50, 0.00, 0.46, 0.18
HSL	125°, 53%, 61%
HSV	125°, 50%, 82%
XYZ	31.4301, 49.7138, 23.2750
YIQ	166.5470, -31.4430, -52.4270

# Conversions

## Conversions Part 2

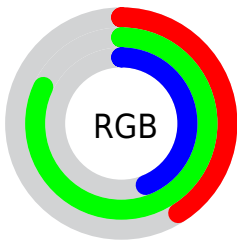
Format	Color
<a href="#">RYB</a>	<a href="#">104, 202, 209</a>
Decimal	<a href="#">6869360</a>
CIELab	<a href="#">75.89, -50.33, 38.85</a>
CIELCh	<a href="#">76, 63.585, 142.335</a>
Yxy	<a href="#">49.7138, 0.3010, 0.4761</a>
Android (android.graphics.Color)	<a href="#">4285059440 (0xFF68D170)</a>
YUV	<a href="#">166.5470, -26.8917, -54.8537</a>
Hunter-Lab	<a href="#">70.5080, -43.8198, 29.7838</a>

# Details

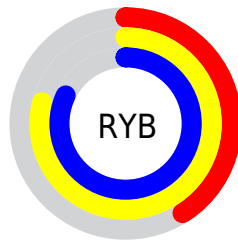
The Yxy color **49.7138, 0.3010, 0.4761** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **27.6597, 0.3269, 0.2165**, and the grayscale version is **38.5517, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.8137, 0.3054, 0.4365**, and **23.9512, 0.2921, 0.5229** is the 20% darker color. If you saturate the color by 10%, you get **48.2323, 0.2993, 0.5094**, and if you desaturate by 10%, it is **51.6014, 0.3031, 0.4424**.

# Distribution



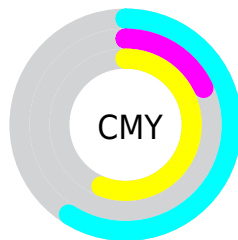
- Red (41%)
- Green (82%)
- Blue (44%)



- Red (41%)
- Yellow (79%)
- Blue (82%)



- Cyan (50%)
- Magenta (0%)
- Yellow (46%)
- Black (18%)




- Cyan (59%)
- Magenta (18%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.7138, 0.3010, 0.4761 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 49.7138, 0.3010, 0.4761 by changing the saturation by 10% instead.




 49.7138, 0.3010,  
0.4761

 49.7138, 0.3010,  
0.4761


385.5457, 0.3102,  
0.3982

 35.1860, 0.2975,  
0.4966


 89.7507, 0.3052,  
0.4469

 23.8062, 0.2923,  
0.5233


 116.0286, 0.3065,  
0.4362

 15.1899, 0.2840,  
0.5594


 146.9920, 0.3075,  
0.4273

 8.9528, 0.2698,  
0.6099

 183.0254, 0.3083,  
0.4197

 4.7104, 0.2472,  
0.6932

224.5130, 0.3089,  
0.4132

 2.0784, 0.1759,  
0.8241

271.8393, 0.3094,

 0.6524, 0.0000,

0.4075

1.0000

325.3888, 0.3098,  
0.4026

0.0000, 0.0000,  
0.0000

49.7138, 0.3010,  
0.4761

49.7138, 0.3010,  
0.4761

48.2323, 0.2993,  
0.5094

51.6014, 0.3031,  
0.4424

47.1214, 0.2982,  
0.5401

53.9153, 0.3055,  
0.4101

46.3499, 0.2978,  
0.5658

56.6815, 0.3079,  
0.3802

45.8786, 0.2982,  
0.5846

59.9225, 0.3103,  
0.3533

45.6434, 0.2988,  
0.5956

63.6591, 0.3127,  
0.3296

■ 67.9109, 0.3148,  
0.3089

■ 72.6964, 0.3168,  
0.2911

■ 74.0858, 0.3148,  
0.2841

# Harmonies

## Analogous

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



49.7138, 0.3824, 0.4860



49.7138, 0.3010, 0.4761



49.7138, 0.2271, 0.4019

# Triad

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



49.7138, 0.3010, 0.4761



49.7138, 0.1831, 0.2056



49.7138, 0.4641, 0.3223

# Complementary

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



49.7138, 0.3010, 0.4761



27.6597, 0.3269, 0.2165

# 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.



49.7138, 0.3943, 0.2664



49.7138, 0.3010, 0.4761



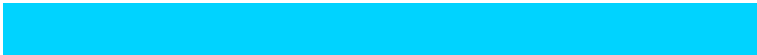
49.7138, 0.2297, 0.2023

# Square

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



49.7138, 0.3010, 0.4761



49.7138, 0.1665, 0.2388



49.7138, 0.3049, 0.2241



49.7138, 0.4832, 0.3840

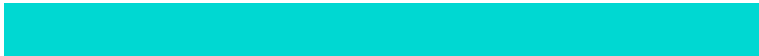


# Rectangle

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



49.7138, 0.3010, 0.4761



49.7138, 0.1923, 0.3375



49.7138, 0.3049, 0.2241



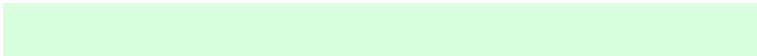
49.7138, 0.4454, 0.3027

# Sweetspot

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



49.7159, 0.3010, 0.4761



91.3844, 0.3092, 0.3661



59.1614, 0.3799, 0.4526



19.3315, 0.3087, 0.3719



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.



49.7159, 0.3010, 0.4761



75.5544, 0.2992, 0.5108



51.2071, 0.2720, 0.3961



13.2208, 0.3105, 0.3511



28.1451, 0.2985, 0.5945



1.5790, 0.2937, 0.5774



# Inverse Universe

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



27.6597, 0.3269, 0.2165



37.2478, 0.3303, 0.1978



25.6311, 0.3906, 0.2727



11.9927, 0.3149, 0.3078



10.7363, 0.3411, 0.1653



0.6051, 0.3370, 0.1630



# Previews

## White Background



This preview shows how the Yxy color 49.7138, 0.3010, 0.4761 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 49.7138, 0.3010, 0.4761 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 49.7138, 0.3010, 0.4761**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.7138, 0.3010, 0.4761.



This preview shows how white text looks on a background with the Yxy color 49.7138, 0.3010, 0.4761.

# 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

49.7138, 0.3010, 0.4761

### Protanopia

48.9547, 0.3941, 0.4291

### Deuteranopia

49.0441, 0.4046, 0.3965



## Tritanopia

49.7043, 0.2543, 0.3086

# Trichromacy



## Original Color

49.7138, 0.3010, 0.4761



## Protanomaly

47.9699, 0.3553, 0.4474



## Deuteranomaly

47.3828, 0.3609, 0.4251



## Tritanomaly

49.2976, 0.2718, 0.3665

# Monochromacy



## Original Color

49.7138, 0.3010, 0.4761



## Achromatopsia

38.6429, 0.3127, 0.3290



## Achromatomaly

41.4918, 0.3078, 0.3812

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.7138, 0.3010, 0.4761 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(104, 209, 112)` looks like.

```
.text, #text, p{  
    color:rgb(104, 209, 112)  
}
```

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(104, 209, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 209, 112) }
```

## Border

The CSS property to change the border of an element to Yxy 49.7138, 0.3010, 0.4761 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(104, 209, 112) }
```

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

```
.border{ border-color:rgb(104, 209, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 209, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 209, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 209, 112);  
box-shadow:4px 4px 4px 4px rgb(104, 209,  
112) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.7138, 0.3010, 0.4761 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 209, 112) }
```

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

```
.background{ background-color: rgb(104,  
209, 112) }
```

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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