

# Converting Colors

$Y_{xy}(45.0178, 0.2462, 0.3062)$

Have a look what the booklet for  
Yxy(45.0178, 0.2462, 0.3062)  
contains.

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# Color

**Yxy(45.0178, 0.2462, 0.3062)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6DBFCF
RGB	109, 191, 207
RGB Percent	43%, 75%, 81%
CMY	0.5726, 0.2509, 0.1883
CMYK	0.47, 0.08, 0.00, 0.19
HSL	190°, 51%, 62%
HSV	190°, 47%, 81%
XYZ	36.1965, 45.0178, 65.8066
YIQ	168.3060, -54.0080, -12.4080

# Conversions

## Conversions Part 2

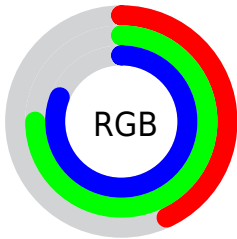
Format	Color
R <sub>YB</sub>	109, 154, 207
Decimal	7192527
CIE Lab	72.90, -20.78, -15.81
CIE LCh	73, 26.117, 217.265
Yxy	45.0178, 0.2462, 0.3062
Android (android.graphics.Color)	4285382607 (0xFF6DBFCF)
YUV	168.3060, 19.0761, -52.0114
Hunter-Lab	67.0953, -21.1197, -11.1845

# Details

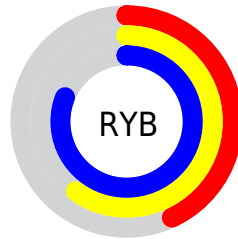
The Yxy color **45.0178, 0.2462, 0.3062** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **29.0251, 0.4314, 0.3496**, and the grayscale version is **39.2385, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4618, 0.2623, 0.3211**, and **20.8693, 0.2281, 0.2973** is the 20% darker color. If you saturate the color by 10%, you get **42.4026, 0.2355, 0.3006**, and if you desaturate by 10%, it is **47.9794, 0.2585, 0.3116**.

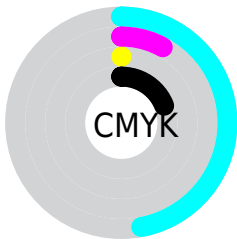
# Distribution



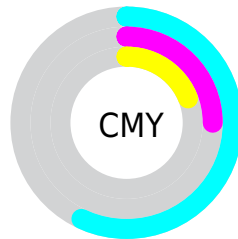
- Red (43%)
- Green (75%)
- Blue (81%)



- Red (43%)
- Yellow (60%)
- Blue (81%)



- Cyan (47%)
- Magenta (8%)
- Yellow (0%)
- Black (19%)




- Cyan (57%)
- Magenta (25%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0178, 0.2462, 0.3062 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 45.0178, 0.2462, 0.3062 by changing the saturation by 10% instead.




 45.0178, 0.2462,  
0.3062


 45.0178, 0.2462,  
0.3062


366.8456, 0.2788,  
0.3184

 31.4714, 0.2383,  
0.3029


 82.7471, 0.2579,  
0.3108

 20.9581, 0.2283,  
0.2986


 107.6989, 0.2623,  
0.3125

 13.0934, 0.2153,  
0.2927


 137.2212, 0.2661,  
0.3139

 7.4929, 0.1978,  
0.2841


171.6986, 0.2693,  
0.3151

 3.7722, 0.1730,  
0.2707

211.5153, 0.2722,  
0.3161

 1.5470, 0.1361,  
0.2476

257.0558, 0.2747,

 0.3214, 0.0000,

0.3170

0.1723

308.7044, 0.2769,  
0.3177

0.0000, 0.0000,  
0.0000

45.0178, 0.2462,  
0.3062

45.0178, 0.2462,  
0.3062

42.4026, 0.2355,  
0.3006

47.9794, 0.2585,  
0.3116

40.1064, 0.2264,  
0.2948

51.3024, 0.2720,  
0.3168

38.1058, 0.2193,  
0.2889

55.0069, 0.2864,  
0.3216

36.3713, 0.2142,  
0.2831

59.1100, 0.3014,  
0.3260

34.8627, 0.2107,  
0.2773

63.6278, 0.3168,  
0.3300

■ 34.4827, 0.2100,  
0.2758

■ 68.5754, 0.3322,  
0.3337

■ 73.9669, 0.3475,  
0.3369

■ 75.9133, 0.3478,  
0.3403

■ 77.6819, 0.3471,  
0.3437

# Harmonies

## Analogous

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



45.0178, 0.2628, 0.3412



45.0178, 0.2462, 0.3062



45.0178, 0.2461, 0.2806

# Triad

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



45.0178, 0.2462, 0.3062



45.0178, 0.3299, 0.2891



45.0178, 0.3630, 0.3920

# Complementary

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



45.0178, 0.2462, 0.3062



29.0251, 0.4314, 0.3496

# 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.



45.0178, 0.3835, 0.3732



45.0178, 0.2462, 0.3062



45.0178, 0.3641, 0.3148

# Square

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



45.0178, 0.2462, 0.3062



45.0178, 0.2926, 0.2727



45.0178, 0.3841, 0.3449



45.0178, 0.3297, 0.3936



# Rectangle

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



45.0178, 0.2462, 0.3062



45.0178, 0.2554, 0.2713



45.0178, 0.3841, 0.3449



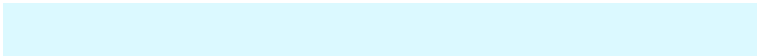
45.0178, 0.3717, 0.3873

# Sweetspot

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



45.0195, 0.2462, 0.3062



90.1884, 0.2911, 0.3230



49.3183, 0.2975, 0.4552



19.0055, 0.2879, 0.3220



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

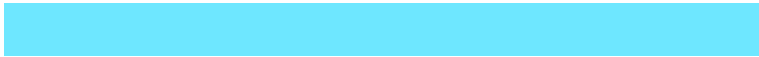


# Same Dimension

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



45.0195, 0.2462, 0.3062



67.8313, 0.2351, 0.3004



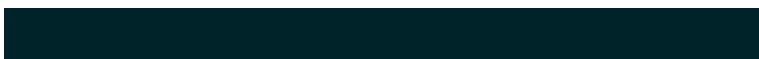
27.4842, 0.2329, 0.2333



13.0651, 0.2983, 0.3251



21.8455, 0.2102, 0.2766



1.3112, 0.2131, 0.2872



# Inverse Universe

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



27.9586, 0.3352, 0.2309



38.1228, 0.3415, 0.2126



44.1348, 0.4008, 0.4079



11.9746, 0.3162, 0.3098



10.2766, 0.3666, 0.1793

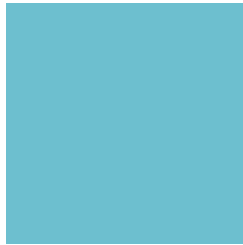


0.5837, 0.3569, 0.1740



# Previews

## White Background



This preview shows how the Yxy color 45.0178, 0.2462, 0.3062 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

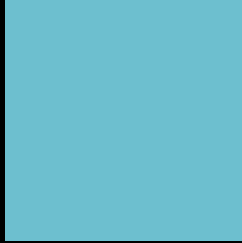
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.0178, 0.2462, 0.3062 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

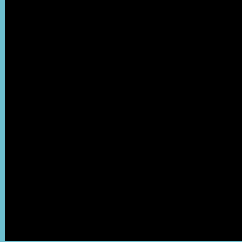
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.0178, 0.2462, 0.3062**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.0178, 0.2462, 0.3062.



This preview shows how white text looks on a background with the Yxy color 45.0178, 0.2462, 0.3062.

# 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

45.0178, 0.2462, 0.3062

### Protanopia

44.6355, 0.2946, 0.3016

### Deuteranopia

44.5590, 0.2881, 0.2822



## **Tritanopia**

45.0178, 0.2462, 0.3062

# Trichromacy



**Original Color**

45.0178, 0.2462, 0.3062

**Protanomaly**

44.2523, 0.2742, 0.3031

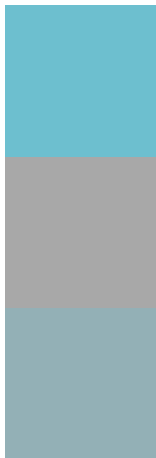
**Deuteranomaly**

44.1657, 0.2702, 0.2891

**Tritanomaly**

45.0178, 0.2462, 0.3062

# Monochromacy



**Original Color**

45.0178, 0.2462, 0.3062

**Achromatopsia**

39.1572, 0.3127, 0.3290

**Achromatomaly**

40.6311, 0.2838, 0.3203

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0178, 0.2462, 0.3062 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(109, 191, 207)` looks like.

```
.text, #text, p{  
    color:rgb(109, 191, 207)  
}
```

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(109, 191, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 191, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0178, 0.2462, 0.3062 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(109, 191, 207) }
```

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

```
.border{ border-color:rgb(109, 191, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(109, 191, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 191, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 191, 207);  
box-shadow:4px 4px 4px 4px rgb(109, 191,  
207) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0178, 0.2462, 0.3062 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 191, 207) }
```

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

```
.background{ background-color: rgb(109,  
191, 207) }
```

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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