

# Converting Colors

$Y_{xy}(56.0110, 0.2371, 0.3065)$

Have a look what the booklet for  
Yxy(56.0110, 0.2371, 0.3065)  
contains.

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# Color

**Yxy(56.0110, 0.2371, 0.3065)**

# Conversions

## Conversions Part 1

Format	Color
Hex	64D5E6
RGB	100, 213, 230
RGB Percent	39%, 84%, 90%
CMY	0.6081, 0.1647, 0.0980
CMYK	0.57, 0.07, 0.00, 0.10
HSL	188°, 72%, 65%
HSV	188°, 57%, 90%
XYZ	43.3286, 56.0110, 83.4043
YIQ	181.1510, -72.8050, -18.6690

# Conversions

## Conversions Part 2

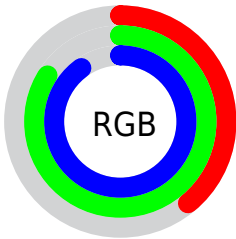
Format	Color
<a href="#">RYB</a>	100, 160, 230
Decimal	6608358
CIELab	79.62, -27.34, -18.13
CIELCh	80, 32.810, 213.550
Yxy	56.0110, 0.2371, 0.3065
Android (android.graphics.Color)	4284798438 (0xFF64D5E6)
YUV	181.1510, 24.0826, -71.1694
Hunter-Lab	74.8405, -27.6291, -13.6861

# Details

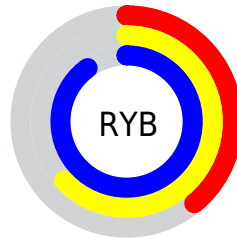
The Yxy color **56.0110, 0.2371, 0.3065** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **30.4538, 0.4720, 0.3481**, and the grayscale version is **46.1833, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.3171, 0.2610, 0.3288**, and **27.6803, 0.2191, 0.3002** is the 20% darker color. If you saturate the color by 10%, you get **53.3833, 0.2284, 0.3019**, and if you desaturate by 10%, it is **59.0410, 0.2476, 0.3110**.

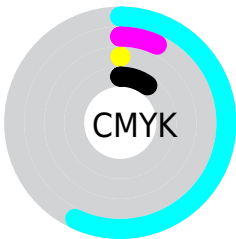
# Distribution



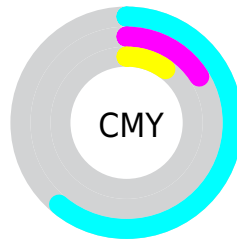
- Red (39%)
- Green (84%)
- Blue (90%)



- Red (39%)
- Yellow (63%)
- Blue (90%)



- Cyan (57%)
- Magenta (7%)
- Yellow (0%)
- Black (10%)




- Cyan (61%)
- Magenta (16%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.0110, 0.2371, 0.3065 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 56.0110, 0.2371, 0.3065 by changing the saturation by 10% instead.




 56.0110, 0.2371,  
0.3065


 56.0110, 0.2371,  
0.3065


409.7330, 0.2726,  
0.3184


 40.2117, 0.2289,  
0.3034


 99.0207, 0.2495,  
0.3109


 27.7037, 0.2188,  
0.2994


 126.9999, 0.2543,  
0.3126

 18.1024, 0.2060,  
0.2940


 159.8078, 0.2584,  
0.3139

 11.0235, 0.1893,  
0.2864

 197.8289, 0.2620,  
0.3151

 6.0827, 0.1668,  
0.2751

241.4476, 0.2652,  
0.3161

 2.8954, 0.1355,  
0.2568

291.0483, 0.2679,

 1.0774, 0.0731,

0.3169

0.2285

347.0152, 0.2704,  
0.3177

0.0000, 0.0000,  
0.0000

56.0110, 0.2371,  
0.3065

56.0110, 0.2371,  
0.3065

53.3833, 0.2284,  
0.3019

59.0410, 0.2476,  
0.3110

51.1195, 0.2216,  
0.2973

62.4955, 0.2597,  
0.3153

49.1839, 0.2168,  
0.2926

66.4024, 0.2731,  
0.3194

47.5289, 0.2138,  
0.2881

70.7852, 0.2875,  
0.3233

46.9965, 0.2129,  
0.2865

75.6658, 0.3026,  
0.3268

81.0647, 0.3181,  
0.3301

85.8563, 0.3296,  
0.3330

87.5841, 0.3293,  
0.3360

89.3411, 0.3289,  
0.3389

# Harmonies

## Analogous

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



56.0110, 0.2582, 0.3483



56.0110, 0.2371, 0.3065



56.0110, 0.2347, 0.2752

# Triad

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



56.0110, 0.2371, 0.3065



56.0110, 0.3270, 0.2799



56.0110, 0.3751, 0.4005

# Complementary

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



56.0110, 0.2371, 0.3065



30.4538, 0.4720, 0.3481

# 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.



56.0110, 0.3968, 0.3760



56.0110, 0.2371, 0.3065



56.0110, 0.3685, 0.3082

# Square

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



56.0110, 0.2371, 0.3065



56.0110, 0.2841, 0.2627



56.0110, 0.3947, 0.3425



56.0110, 0.3373, 0.4061

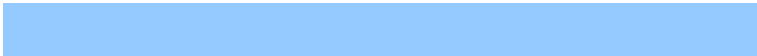


# Rectangle

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



56.0110, 0.2371, 0.3065



56.0110, 0.2437, 0.2634



56.0110, 0.3947, 0.3425



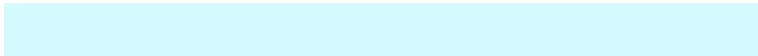
56.0110, 0.3846, 0.3940

# Sweetspot

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



56.0131, 0.2371, 0.3065



89.1216, 0.2867, 0.3231



60.5505, 0.2975, 0.4914



18.8270, 0.2837, 0.3223



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.



56.0131, 0.2371, 0.3065



66.8932, 0.2270, 0.3011



30.1680, 0.2177, 0.2160



15.9979, 0.2982, 0.3258



26.7303, 0.2131, 0.2872



2.0652, 0.2150, 0.2939



# Inverse Universe

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



30.7319, 0.3365, 0.2102



33.0792, 0.3425, 0.1926



50.4492, 0.4245, 0.4176



14.5811, 0.3158, 0.3088



11.8962, 0.3568, 0.1739

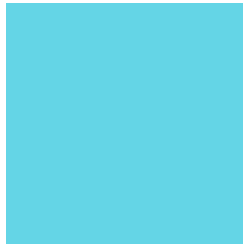


0.8882, 0.3508, 0.1706



# Previews

## White Background



This preview shows how the Yxy color 56.0110, 0.2371, 0.3065 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

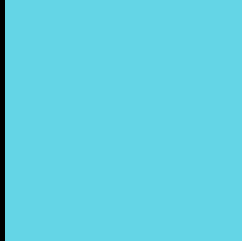
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.0110, 0.2371, 0.3065 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 56.0110, 0.2371, 0.3065**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.0110, 0.2371, 0.3065.

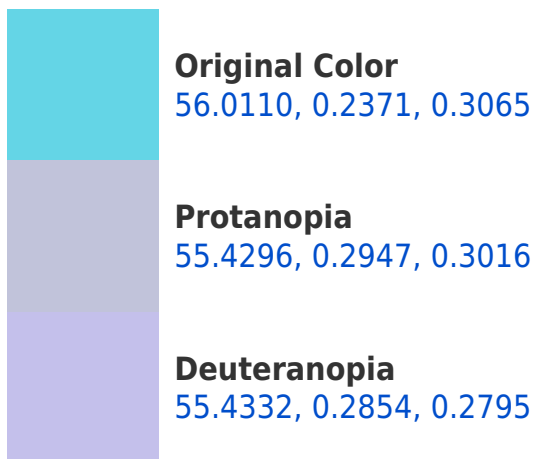


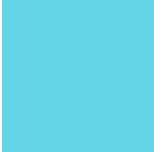
This preview shows how white text looks on a background with the Yxy color 56.0110, 0.2371, 0.3065.

# 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





## **Tritanopia**

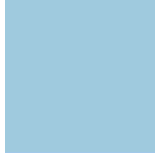
56.0110, 0.2371, 0.3065

# Trichromacy



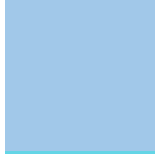
## Original Color

56.0110, 0.2371, 0.3065



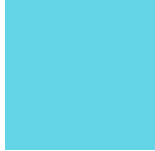
## Protanomaly

54.8859, 0.2691, 0.3039



## Deuteranomaly

54.7688, 0.2637, 0.2885



## Tritanomaly

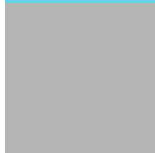
56.0110, 0.2371, 0.3065

# Monochromacy



## Original Color

56.0110, 0.2371, 0.3065



## Achromatopsia

46.2077, 0.3127, 0.3290



## Achromatomaly

48.9388, 0.2775, 0.3209

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.0110, 0.2371, 0.3065 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(100, 213, 230)` looks like.

```
.text, #text, p{  
    color:rgb(100, 213, 230)  
}
```

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(100, 213, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 213, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 56.0110, 0.2371, 0.3065 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(100, 213, 230) }
```

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

```
.border{ border-color:rgb(100, 213, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 213, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 213, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 213, 230);  
box-shadow:4px 4px 4px 4px rgb(100, 213,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.0110, 0.2371, 0.3065 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 213, 230) }
```

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

```
.background{ background-color: rgb(100,  
213, 230) }
```

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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