

# Converting Colors

$Y_{xy}(36.1866, 0.2272, 0.2710)$

Have a look what the booklet for  
Yxy(36.1866, 0.2272, 0.2710)  
contains.

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# Color

**Yxy(36.1866, 0.2272, 0.2710)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56ACD3
RGB	86, 172, 211
RGB Percent	34%, 67%, 83%
CMY	0.6632, 0.3254, 0.1726
CMYK	0.59, 0.18, 0.00, 0.17
HSL	199°, 59%, 58%
HSV	199°, 59%, 83%
XYZ	30.3380, 36.1866, 67.0053
YIQ	150.7320, -63.7750, -6.1030

# Conversions

## Conversions Part 2

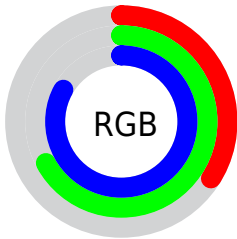
Format	Color
<b>RYB</b>	86, 137, 211
Decimal	5680339
CIELab	66.66, -14.60, -27.60
CIELCh	67, 31.218, 242.123
Yxy	36.1866, 0.2272, 0.2710
Android (android.graphics.Color)	4283870419 (0xFF56ACD3)
YUV	150.7320, 29.7121, -56.7700
Hunter-Lab	60.1553, -15.2493, -23.9328

# Details

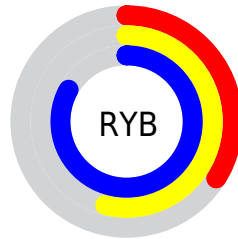
The Yxy color **36.1866, 0.2272, 0.2710** is a light color, and the websafe version is hex **3399CC**. The color can be described as light muted azure. A complement of this color would be **29.1450, 0.4625, 0.3760**, and the grayscale version is **30.7061, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.1779, 0.2485, 0.2963**, and **15.8332, 0.2038, 0.2538** is the 20% darker color. If you saturate the color by 10%, you get **32.8912, 0.2164, 0.2592**, and if you desaturate by 10%, it is **39.9037, 0.2396, 0.2824**.

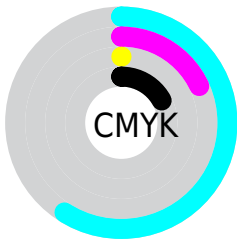
# Distribution



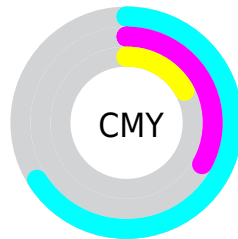
- Red (34%)
- Green (67%)
- Blue (83%)



- Red (34%)
- Yellow (54%)
- Blue (83%)



- Cyan (59%)
- Magenta (18%)
- Yellow (0%)
- Black (17%)




- Cyan (66%)
- Magenta (33%)
- Yellow (17%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.1866, 0.2272, 0.2710 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 36.1866, 0.2272, 0.2710 by changing the saturation by 10% instead.





 36.1866, 0.2272,  
0.2710


 36.1866, 0.2272,  
0.2710


329.7754, 0.2701,  
0.3016

 24.5783, 0.2166,  
0.2630


 69.3200, 0.2427,  
0.2824

 15.7632, 0.2032,  
0.2526


 91.6139, 0.2486,  
0.2866

 9.3567, 0.1857,  
0.2385


 118.2385, 0.2535,  
0.2901

 4.9746, 0.1622,  
0.2187

 149.5782, 0.2578,  
0.2931

 2.2324, 0.1295,  
0.1892

186.0173, 0.2615,  
0.2957

 0.7376, 0.0674,  
0.1442

227.9403, 0.2647,

 0.0000, 0.0000,

0.2979

0.0000

275.7315, 0.2675,  
0.2998

■ 36.1866, 0.2272,  
0.2710

■ 36.1866, 0.2272,  
0.2710

■ 32.8912, 0.2164,  
0.2592

■ 39.9037, 0.2396,  
0.2824

■ 29.9850, 0.2075,  
0.2473

■ 44.0639, 0.2533,  
0.2933

■ 27.4356, 0.2007,  
0.2355


■ 48.6914, 0.2679,  
0.3035


■ 25.1880, 0.1956,  
0.2238


■ 53.8074, 0.2830,  
0.3130


■ 25.0368, 0.1953,  
0.2230

■ 59.4314, 0.2984,  
0.3217

 65.5818, 0.3138,  
0.3295

 72.2758, 0.3289,  
0.3366

 79.5300, 0.3435,  
0.3428

 83.2064, 0.3426,  
0.3493

# Harmonies

## Analogous

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



36.1866, 0.2307, 0.3059



36.1866, 0.2272, 0.2710



36.1866, 0.2441, 0.2544

# Triad

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



36.1866, 0.2272, 0.2710



36.1866, 0.3722, 0.3044



36.1866, 0.3415, 0.4146

# Complementary

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



36.1866, 0.2272, 0.2710



29.1450, 0.4625, 0.3760

# 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.



36.1866, 0.3826, 0.4065



36.1866, 0.2272, 0.2710



36.1866, 0.4022, 0.3414

# Square

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



36.1866, 0.2272, 0.2710



36.1866, 0.3259, 0.2741



36.1866, 0.4056, 0.3784



36.1866, 0.2946, 0.3947



# Rectangle

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



36.1866, 0.2272, 0.2710



36.1866, 0.2657, 0.2536



36.1866, 0.4056, 0.3784



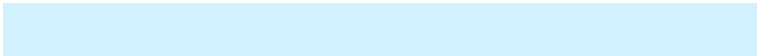
36.1866, 0.3565, 0.4148

# Sweetspot

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



36.1879, 0.2272, 0.2710



83.5252, 0.2847, 0.3140



49.9956, 0.2854, 0.4646



17.3608, 0.2802, 0.3113



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.



36.1879, 0.2272, 0.2710



49.3411, 0.2140, 0.2563



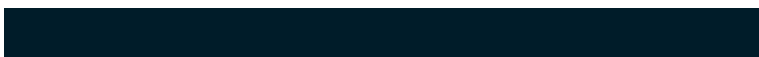
18.0220, 0.2059, 0.1745



12.7599, 0.2983, 0.3216



15.3016, 0.1958, 0.2248



0.9936, 0.2017, 0.2462



# Inverse Universe

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



23.4624, 0.3665, 0.2285



30.2563, 0.3826, 0.2146



49.6205, 0.4128, 0.4445



11.9437, 0.3185, 0.3131



9.6160, 0.4181, 0.2077

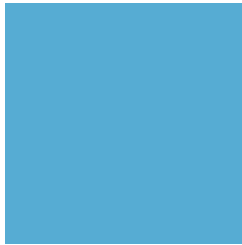


0.5516, 0.3961, 0.1955



# Previews

## White Background



This preview shows how the Yxy color 36.1866, 0.2272, 0.2710 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 36.1866, 0.2272, 0.2710 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 36.1866, 0.2272, 0.2710**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.1866, 0.2272, 0.2710.

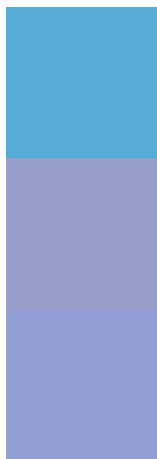


This preview shows how white text looks on a background with the Yxy color 36.1866, 0.2272, 0.2710.

# 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

36.1866, 0.2272, 0.2710

### Protanopia

35.9852, 0.2708, 0.2708

### Deuteranopia

35.9472, 0.2600, 0.2544



## Tritanopia

36.3462, 0.2353, 0.3068

# Trichromacy



## Original Color

36.1866, 0.2272, 0.2710

## Protanomaly

35.4707, 0.2515, 0.2700

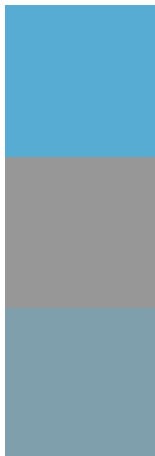
## Deuteranomaly

35.7150, 0.2454, 0.2597

## Tritanomaly

36.4426, 0.2321, 0.2934

# Monochromacy



## Original Color

36.1866, 0.2272, 0.2710

## Achromatopsia

30.9469, 0.3127, 0.3290

## Achromatomaly

32.3254, 0.2725, 0.3070

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  36.1866, 0.2272, 0.2710 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(86, 172, 211)` looks like.

```
.text, #text, p{  
    color:rgb(86, 172, 211)  
}
```

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(86, 172, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 172, 211) }
```

## Border

The CSS property to change the border of an element to Yxy 36.1866, 0.2272, 0.2710 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(86, 172, 211) }
```

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

```
.border{ border-color:rgb(86, 172, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(86, 172, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 172, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 172, 211);  
box-shadow:4px 4px 4px 4px rgb(86, 172,  
211) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.1866, 0.2272, 0.2710 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 172, 211) }
```

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

```
.background{ background-color: rgb(86, 172,  
211) }
```

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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