

# Converting Colors

$Y_{xy}(47.1192, 0.2315, 0.2845)$

Have a look what the booklet for  
Yxy(47.1192, 0.2315, 0.2845)  
contains.

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# Color

**Yxy(47.1730, 0.2315, 0.2840)**

# Conversions

## Conversions Part 1

Format	Color
Hex	61C3E4
RGB	97, 195, 228
RGB Percent	38%, 76%, 89%
CMY	0.6194, 0.2353, 0.1059
CMYK	0.57, 0.14, 0.00, 0.11
HSL	195°, 71%, 64%
HSV	195°, 57%, 89%
XYZ	38.4526, 47.1730, 80.4765
YIQ	169.4600, -69.0010, -10.5130

# Conversions

## Conversions Part 2

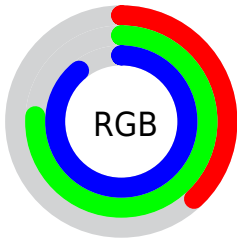
Format	Color
R <sub>Y</sub> B	97, 153, 228
Decimal	6407140
CIE Lab	74.30, -19.43, -25.14
CIE LCh	74, 31.770, 232.304
Yxy	47.1730, 0.2315, 0.2840
Android (android.graphics.Color)	4284597220 (0xFF61C3E4)
YUV	169.4600, 28.8602, -63.5474
Hunter-Lab	68.6826, -20.2596, -21.3932

# Details

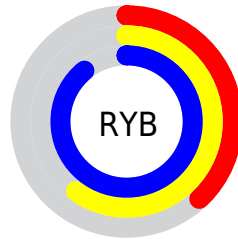
The Yxy color **47.1730, 0.2315, 0.2840** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **33.3407, 0.4630, 0.3663**, and the grayscale version is **39.8037, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.0089, 0.2587, 0.3255**, and **22.1770, 0.2109, 0.2710** is the 20% darker color. If you saturate the color by 10%, you get **43.5703, 0.2213, 0.2747**, and if you desaturate by 10%, it is **51.2382, 0.2434, 0.2931**.

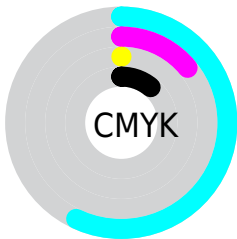
# Distribution



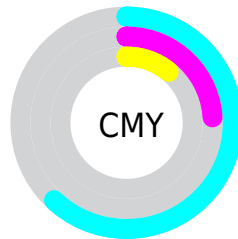
- Red (38%)
- Green (76%)
- Blue (89%)



- Red (38%)
- Yellow (60%)
- Blue (89%)



- Cyan (57%)
- Magenta (14%)
- Yellow (0%)
- Black (11%)




- Cyan (62%)
- Magenta (24%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.1730, 0.2315, 0.2840 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 47.1730, 0.2315, 0.2840 by changing the saturation by 10% instead.





 47.1730, 0.2315,  
0.2840

 47.1730, 0.2315,  
0.2840

375.5047, 0.2706,  
0.3071


 33.1724, 0.2223,  
0.2781


 85.9718, 0.2453,  
0.2925


 22.2586, 0.2108,  
0.2706


 111.5388, 0.2506,  
0.2957

 14.0470, 0.1962,  
0.2606


 141.7301, 0.2551,  
0.2983

 8.1534, 0.1769,  
0.2467

 176.9301, 0.2591,  
0.3006

 4.1932, 0.1508,  
0.2265

217.5232, 0.2625,  
0.3026

 1.7822, 0.1144,  
0.1951

263.8937, 0.2655,

 0.4761, 0.0000,

0.3043

0.1385

316.4260, 0.2682,  
0.3058

0.0000, 0.0000,  
0.0000

47.1730, 0.2315,  
0.2840

47.1730, 0.2315,  
0.2840

43.5703, 0.2213,  
0.2747

51.2382, 0.2434,  
0.2931

40.3920, 0.2129,  
0.2652

55.7898, 0.2567,  
0.3017

37.6014, 0.2066,  
0.2557


60.8558, 0.2710,  
0.3098


35.1477, 0.2021,  
0.2464

66.4603, 0.2859,  
0.3174


34.5506, 0.2011,  
0.2440

72.6259, 0.3013,  
0.3243

 79.3735, 0.3167,  
0.3305

 86.4065, 0.3308,  
0.3362

 89.7548, 0.3301,  
0.3418

 93.2105, 0.3295,  
0.3473

# Harmonies

## Analogous

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



47.1730, 0.2413, 0.3212



47.1730, 0.2315, 0.2840



47.1730, 0.2413, 0.2624

# Triad

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



47.1730, 0.2315, 0.2840



47.1730, 0.3550, 0.2958



47.1730, 0.3536, 0.4088

# Complementary

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



47.1730, 0.2315, 0.2840



33.3407, 0.4630, 0.3663

# 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.



47.1730, 0.3874, 0.3945



47.1730, 0.2315, 0.2840



47.1730, 0.3893, 0.3292

# Square

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



47.1730, 0.2315, 0.2840



47.1730, 0.3103, 0.2706



47.1730, 0.4012, 0.3647



47.1730, 0.3102, 0.3987



# Rectangle

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



47.1730, 0.2315, 0.2840



47.1730, 0.2580, 0.2578



47.1730, 0.4012, 0.3647



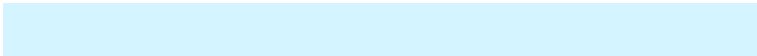
47.1730, 0.3665, 0.4064

# Sweetspot

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



47.1747, 0.2315, 0.2840



85.9107, 0.2864, 0.3176



59.6378, 0.2890, 0.4697



18.0626, 0.2833, 0.3161



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.



47.1747, 0.2315, 0.2840



55.2997, 0.2194, 0.2728



24.0572, 0.2108, 0.1886



15.6889, 0.2981, 0.3229



20.1491, 0.2015, 0.2454



1.6345, 0.2053, 0.2591



# Inverse Universe

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



28.9947, 0.3550, 0.2232



31.5448, 0.3672, 0.2077



56.5074, 0.4145, 0.4359



14.5499, 0.3176, 0.3116



11.2318, 0.3968, 0.1959

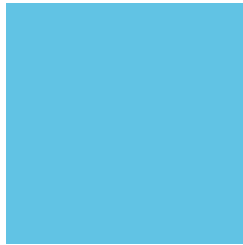


0.8447, 0.3833, 0.1885



# Previews

## White Background



This preview shows how the Yxy color 47.1730, 0.2315, 0.2840 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

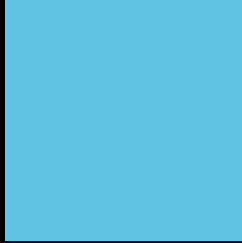
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.1730, 0.2315, 0.2840 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 47.1730, 0.2315, 0.2840**

## Background



This preview shows how black text looks on a background with the Yxy color 47.1730, 0.2315, 0.2840.



This preview shows how white text looks on a background with the Yxy color 47.1730, 0.2315, 0.2840.

# 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

47.1730, 0.2315, 0.2840

### Protanopia

46.7031, 0.2797, 0.2813

### Deuteranopia

46.5512, 0.2695, 0.2629



## Tritanopia

46.9607, 0.2366, 0.3062

# Trichromacy



**Original Color**

47.1730, 0.2315, 0.2840

**Protanomaly**

46.0828, 0.2581, 0.2806

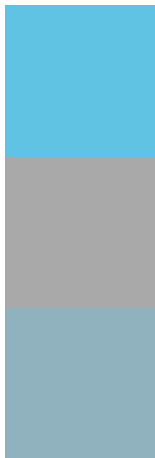
**Deuteranomaly**

46.0702, 0.2521, 0.2686

**Tritanomaly**

46.8690, 0.2348, 0.2981

# Monochromacy



**Original Color**

47.1730, 0.2315, 0.2840

**Achromatopsia**

39.6755, 0.3127, 0.3290

**Achromatomaly**

41.3981, 0.2753, 0.3119

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.1730, 0.2315, 0.2840 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(97, 195, 228)` looks like.

```
.text, #text, p{  
    color:rgb(97, 195, 228)  
}
```

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(97, 195, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 195, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 47.1730, 0.2315, 0.2840 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(97, 195, 228) }
```

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

```
.border{ border-color:rgb(97, 195, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(97, 195, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 195, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 195, 228);  
box-shadow:4px 4px 4px 4px rgb(97, 195,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.1730, 0.2315, 0.2840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 195, 228) }
```

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

```
.background{ background-color: rgb(97, 195,  
228) }
```

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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