

# Converting Colors

$Y_{xy}(42.1494, 0.2142, 0.2732)$

Have a look what the booklet for  
Yxy(42.1494, 0.2142, 0.2732)  
contains.

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# Color

**Yxy(42.1168, 0.2141, 0.2731)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 2FBCE3                       |
| RGB         | 47, 188, 227                 |
| RGB Percent | 18%, 74%, 89%                |
| CMY         | 0.8163, 0.2627, 0.1097       |
| CMYK        | 0.79, 0.17, 0.00, 0.11       |
| HSL         | 193°, 76%, 54%               |
| HSV         | 193°, 79%, 89%               |
| XYZ         | 33.0180, 42.1168, 79.0827    |
| YIQ         | 150.2870, -96.5550, -17.7630 |

# Conversions

## Conversions Part 2

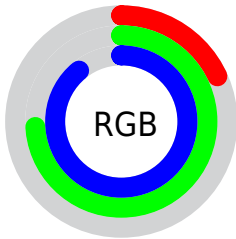
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 47, 126, 227                   |
| Decimal                             | 3128547                        |
| CIE Lab                             | 70.95, -23.30, -29.86          |
| CIE LCh                             | 71, 37.880, 232.031            |
| Yxy                                 | 42.1168, 0.2141,<br>0.2731     |
| Android<br>(android.graphics.Color) | 4281318627<br>(0xFF2FBCE3)     |
| YUV                                 | 150.2870, 37.8195,<br>-90.5827 |
| Hunter-Lab                          | 64.8975, -22.7549,<br>-26.8214 |

# Details

The Yxy color **42.1168, 0.2141, 0.2731** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed azure. A complement of this color would be **23.1741, 0.5552, 0.3623**, and the grayscale version is **30.4773, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.0589, 0.2427, 0.3160**, and **20.2682, 0.2056, 0.2603** is the 20% darker color. If you saturate the color by 10%, you get **39.6484, 0.2086, 0.2651**, and if you desaturate by 10%, it is **44.9398, 0.2215, 0.2811**.

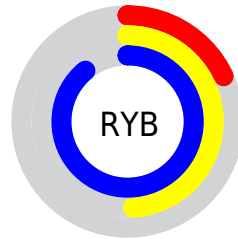
# Distribution



Red (18%)

Green (74%)

Blue (89%)



Red (18%)

Yellow (49%)

Blue (89%)

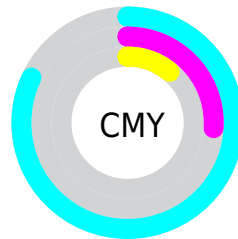


Cyan (79%)

Magenta (17%)

Yellow (0%)

Black (11%)



Cyan (82%)

Magenta (26%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.1168, 0.2141, 0.2731 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 42.1168, 0.2141, 0.2731 by changing the saturation by 10% instead.



42.1168, 0.2141,  
0.2731

42.1168, 0.2141,  
0.2731

354.9669, 0.2619,  
0.3024

29.1928, 0.2028,  
0.2655

78.3764, 0.2310,  
0.2840

19.2267, 0.1888,  
0.2558

102.4807, 0.2375,  
0.2880

11.8342, 0.1710,  
0.2427

131.0805, 0.2430,  
0.2914

6.6309, 0.1479,  
0.2246

164.5604, 0.2478,  
0.2942

3.2323, 0.1173,  
0.1984

203.3045, 0.2520,  
0.2967

1.2542, 0.0739,  
0.1590

247.6974, 0.2557,

0.1053, 0.0000,

0.2989

0.0362

298.1234, 0.2590,  
0.3007

0.0000, 0.0000,  
0.0000

42.1168, 0.2141,  
0.2731

42.1168, 0.2141,  
0.2731

39.6484, 0.2086,  
0.2651

44.9398, 0.2215,  
0.2811

37.4674, 0.2049,  
0.2572

48.1517, 0.2309,  
0.2891

37.3340, 0.2047,  
0.2567

51.7872, 0.2420,  
0.2968

55.8752, 0.2547,  
0.3042

60.4417, 0.2685,  
0.3113

■ 65.5109, 0.2831,  
0.3178

■ 71.1046, 0.2983,  
0.3238

■ 77.2437, 0.3137,  
0.3293

■ 83.9477, 0.3291,  
0.3343

# Harmonies

## Analogous

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



42.1168, 0.2256, 0.3189



42.1168, 0.2141, 0.2731



42.1168, 0.2256, 0.2476

# Triad

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



42.1168, 0.2141, 0.2731



42.1168, 0.3644, 0.2880



42.1168, 0.3624, 0.4282

# Complementary

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



42.1168, 0.2141, 0.2731



23.1741, 0.5552, 0.3623

# 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.



42.1168, 0.4045, 0.4082



42.1168, 0.2141, 0.2731



42.1168, 0.4075, 0.3278

# Square

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



42.1168, 0.2141, 0.2731



42.1168, 0.3086, 0.2580



42.1168, 0.4221, 0.3706



42.1168, 0.3091, 0.4172



# Rectangle

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



42.1168, 0.2141, 0.2731



42.1168, 0.2454, 0.2425



42.1168, 0.4221, 0.3706



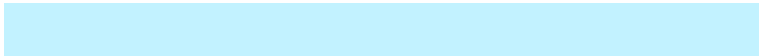
42.1168, 0.3784, 0.4244

# Sweetspot

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



42.1183, 0.2141, 0.2731



82.0162, 0.2760, 0.3147



56.1778, 0.2910, 0.5413



17.0566, 0.2708, 0.3124



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

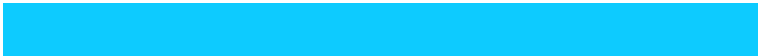


# Same Dimension

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



42.1183, 0.2141, 0.2731



49.7973, 0.2062, 0.2602



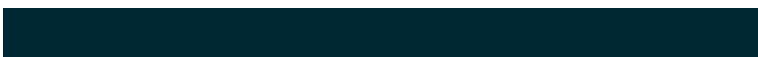
15.4365, 0.1793, 0.1406



15.7788, 0.2981, 0.3238



21.9448, 0.2050, 0.2579



1.7536, 0.2082, 0.2695



# Inverse Universe

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



21.9876, 0.3684, 0.1939



25.8313, 0.3820, 0.1894



46.4171, 0.4590, 0.4520



14.5590, 0.3171, 0.3108



11.4131, 0.3844, 0.1891

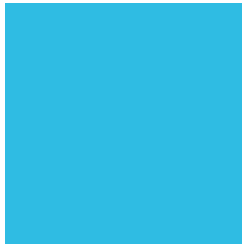


0.8567, 0.3733, 0.1830



# Previews

## White Background



This preview shows how the Yxy color 42.1168, 0.2141, 0.2731 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

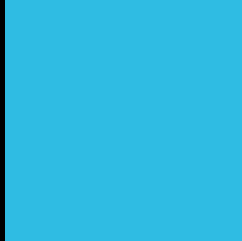
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.1168, 0.2141, 0.2731 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 42.1168, 0.2141, 0.2731**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.1168, 0.2141, 0.2731.



This preview shows how white text looks on a background with the Yxy color 42.1168, 0.2141, 0.2731.

# 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

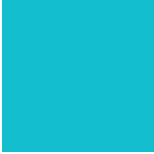
42.1168, 0.2141, 0.2731

### Protanopia

41.6622, 0.2724, 0.2728

### Deuteranopia

41.5869, 0.2569, 0.2513



## **Tritanopia**

41.9050, 0.2192, 0.3045

# Trichromacy



## Original Color

42.1168, 0.2141, 0.2731



## Protanomaly

40.5518, 0.2421, 0.2708



## Deuteranomaly

40.8705, 0.2342, 0.2573



## Tritanomaly

41.9432, 0.2171, 0.2931

# Monochromacy



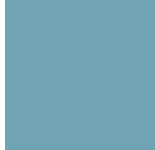
## Original Color

42.1168, 0.2141, 0.2731



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

33.2100, 0.2586, 0.3068

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.1168, 0.2141, 0.2731 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(47, 188, 227)` looks like.

```
.text, #text, p{  
  color:rgb(47, 188, 227)  
}
```

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(47, 188, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 188, 227) }
```

## Border

The CSS property to change the border of an element to Yxy 42.1168, 0.2141, 0.2731 is called "border". The border property can be set on classes, ids or directly on the HTML element.

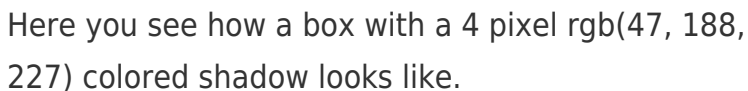
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(47, 188, 227) }
```

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

```
.border{ border-color:rgb(47, 188, 227) }
```

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



Here you see how a box with a 4 pixel `rgb(47, 188, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(47, 188, 227); -webkit-box-shadow:4px 4px 4px 4px rgb(47, 188, 227); box-shadow:4px 4px 4px 4px rgb(47, 188, 227) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.1168, 0.2141, 0.2731 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 188, 227) }
```

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

```
.background{ background-color: rgb(47, 188,  
227) }
```

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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