

# Converting Colors

$Y_{xy}(45.0596, 0.2141, 0.2858)$

Have a look what the booklet for  
Yxy(45.0596, 0.2141, 0.2858)  
contains.

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# Color

**Yxy(45.1414, 0.2142, 0.2860)**

# Conversions

## Conversions Part 1

Format	Color
Hex	17C4E2
RGB	23, 196, 226
RGB Percent	9%, 77%, 89%
CMY	0.9113, 0.2314, 0.1137
CMYK	0.90, 0.13, 0.00, 0.11
HSL	189°, 82%, 49%
HSV	189°, 90%, 89%
XYZ	33.8087, 45.1414, 78.8870
YIQ	147.6930, -112.7380, -27.3460

# Conversions

## Conversions Part 2

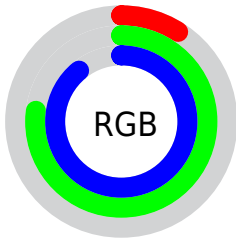
Format	Color
RYP	23, 116, 226
Decimal	1557730
CIELab	72.98, -29.29, -26.21
CIElCh	73, 39.301, 221.824
Yxy	45.1414, 0.2142, 0.2860
Android (android.graphics.Color)	4279747810 (0xFF17C4E2)
YUV	147.6930, 38.6054, -109.3558
Hunter-Lab	67.1873, -27.7566, -22.5833

# Details

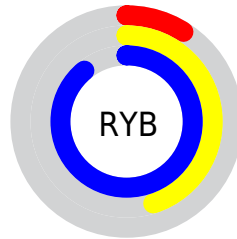
The Yxy color **45.1414, 0.2142, 0.2860** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **18.7441, 0.6047, 0.3458**, and the grayscale version is **29.2990, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.9813, 0.2418, 0.3265**, and **22.2863, 0.2095, 0.2743** is the 20% darker color. If you saturate the color by 10%, you get **43.4772, 0.2113, 0.2808**, and if you desaturate by 10%, it is **47.0499, 0.2186, 0.2912**.

# Distribution



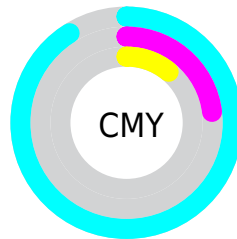
- Red (9%)
- Green (77%)
- Blue (89%)



- Red (9%)
- Yellow (45%)
- Blue (89%)



- Cyan (90%)
- Magenta (13%)
- Yellow (0%)
- Black (11%)




- Cyan (91%)
- Magenta (23%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.1414, 0.2142, 0.2860 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 45.1414, 0.2142, 0.2860 by changing the saturation by 10% instead.





 45.1414, 0.2142,  
0.2860


 45.1414, 0.2142,  
0.2860


367.3459, 0.2615,  
0.3090


 31.5688, 0.2032,  
0.2800


 82.9326, 0.2308,  
0.2946

 21.0324, 0.1895,  
0.2721


 107.9199, 0.2372,  
0.2978


 13.1477, 0.1722,  
0.2615

 137.4810, 0.2427,  
0.3004

 7.5303, 0.1497,  
0.2465

 172.0002, 0.2475,  
0.3026

 3.7959, 0.1200,  
0.2243

 211.8619, 0.2516,  
0.3046

 1.5601, 0.0792,  
0.1896

257.4505, 0.2553,

 0.3304, 0.0000,

0.3062

0.1060

309.1504, 0.2586,  
0.3077

■ 0.0000, 0.0000,  
0.0000

■ 45.1414, 0.2142,  
0.2860

■ 45.1414, 0.2142,  
0.2860

■ 43.4772, 0.2113,  
0.2808

■ 47.0499, 0.2186,  
0.2912

■ 43.4756, 0.2113,  
0.2808

■ 49.2649, 0.2250,  
0.2965

■ 51.8265, 0.2333,  
0.3018

■ 54.7672, 0.2434,  
0.3069

■ 58.1154, 0.2551,  
0.3119

■ 61.8967, 0.2682,  
0.3167

■ 66.1343, 0.2824,  
0.3211

■ 70.8499, 0.2973,  
0.3252

■ 76.0634, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.1414, 0.2337, 0.3376



45.1414, 0.2142, 0.2860



45.1414, 0.2180, 0.2528

# Triad

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



45.1414, 0.2142, 0.2860



45.1414, 0.3463, 0.2757



45.1414, 0.3795, 0.4256

# Complementary

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



45.1414, 0.2142, 0.2860



18.7441, 0.6047, 0.3458

# 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.



45.1414, 0.4151, 0.3974



45.1414, 0.2142, 0.2860



45.1414, 0.3966, 0.3133

# Square

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



45.1414, 0.2142, 0.2860



45.1414, 0.2899, 0.2501



45.1414, 0.4224, 0.3564



45.1414, 0.3277, 0.4264

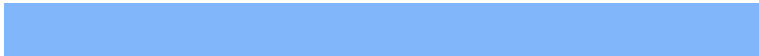


# Rectangle

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



45.1414, 0.2142, 0.2860



45.1414, 0.2331, 0.2429



45.1414, 0.4224, 0.3564



45.1414, 0.3939, 0.4185

# Sweetspot

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



45.1430, 0.2142, 0.2860



82.8844, 0.2721, 0.3179



54.8024, 0.2959, 0.5769



17.3484, 0.2674, 0.3164



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

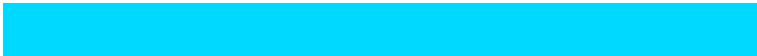


# Same Dimension

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



45.1430, 0.2142, 0.2860



57.0319, 0.2113, 0.2805



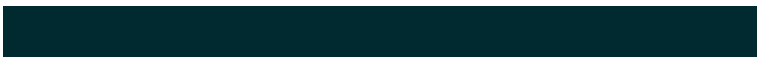
14.2551, 0.1727, 0.1340



15.2094, 0.2982, 0.3255



24.9386, 0.2116, 0.2816



1.8237, 0.2138, 0.2897



# Inverse Universe

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



20.7528, 0.3576, 0.1783



26.2886, 0.3630, 0.1773



38.5032, 0.4895, 0.4419



13.8990, 0.3160, 0.3093



11.4256, 0.3620, 0.1768

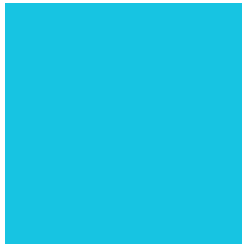


0.8016, 0.3546, 0.1727



# Previews

## White Background



This preview shows how the Yxy color 45.1414, 0.2142, 0.2860 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

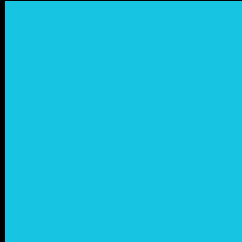
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.1414, 0.2142, 0.2860 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

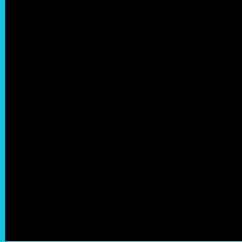
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.1414, 0.2142, 0.2860**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.1414, 0.2142, 0.2860.

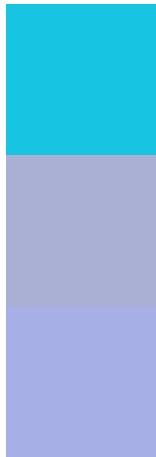


This preview shows how white text looks on a background with the Yxy color 45.1414, 0.2142, 0.2860.

# 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

45.1530, 0.2142, 0.2860

### Protanopia

44.3502, 0.2804, 0.2827

### Deuteranopia

44.6450, 0.2654, 0.2593

# Trichromacy



## Original Color

45.1530, 0.2142, 0.2860

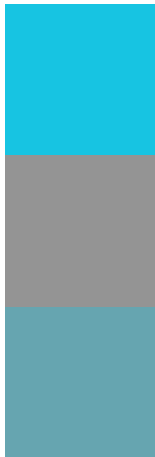
## Protanomaly

42.5897, 0.2425, 0.2817

## Deuteranomaly

43.1015, 0.2353, 0.2668

# Monochromacy



## Original Color

45.1530, 0.2142, 0.2860

## Achromatopsia

29.6138, 0.3127, 0.3290

## Achromatomaly

32.8696, 0.2534, 0.3111

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.1414, 0.2142, 0.2860 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(23, 196, 226)` looks like.

```
.text, #text, p{  
    color:rgb(23, 196, 226)  
}
```

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(23, 196, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 196, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 45.1414, 0.2142, 0.2860 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(23, 196, 226) }
```

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

```
.border{ border-color:rgb(23, 196, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(23, 196, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 196, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 196, 226);  
box-shadow:4px 4px 4px 4px rgb(23, 196,  
226) }
```

# Background

The CSS property to change the background color of an element to Yxy 45.1414, 0.2142, 0.2860 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 196, 226) }
```

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

```
.background{ background-color: rgb(23, 196,  
226) }
```

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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