

# Converting Colors

$Y_{xy}(45.3112, 0.2166, 0.2909)$

Have a look what the booklet for  
Yxy(45.3112, 0.2166, 0.2909)  
contains.

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# Color

**Yxy(45.1146, 0.2164, 0.2901)**

# Conversions

## Conversions Part 1

Format	Color
Hex	20C4DF
RGB	32, 196, 223
RGB Percent	13%, 77%, 87%
CMY	0.8747, 0.2314, 0.1255
CMYK	0.86, 0.12, 0.00, 0.13
HSL	188°, 75%, 50%
HSV	188°, 86%, 87%
XYZ	33.6532, 45.1146, 76.7461
YIQ	150.0420, -106.4110, -26.3710

# Conversions

## Conversions Part 2

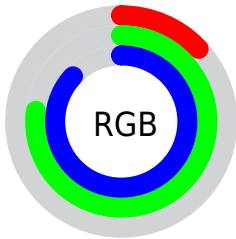
Format	Color
<a href="#">RYB</a>	<a href="#">32, 120, 223</a>
Decimal	<a href="#">2147551</a>
CIELab	<a href="#">72.97, -29.75, -24.60</a>
CIELCh	<a href="#">73, 38.606, 219.581</a>
Yxy	<a href="#">45.1146, 0.2164, 0.2901</a>
Android (android.graphics.Color)	<a href="#">4280337631 (0xFF20C4DF)</a>
YUV	<a href="#">150.0420, 35.9683, -103.5228</a>
Hunter-Lab	<a href="#">67.1674, -28.1082, -20.7282</a>

# Details

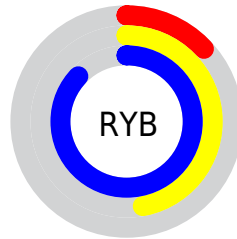
The Yxy color **45.1146, 0.2164, 0.2901** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **18.9148, 0.5920, 0.3472**, and the grayscale version is **30.3913, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.1154, 0.2425, 0.3265**, and **22.1732, 0.2110, 0.2794** is the 20% darker color. If you saturate the color by 10%, you get **43.4654, 0.2131, 0.2851**, and if you desaturate by 10%, it is **47.0378, 0.2216, 0.2951**.

# Distribution



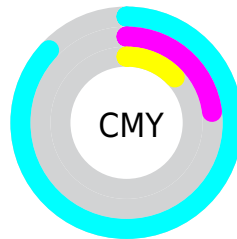
- Red (13%)
- Green (77%)
- Blue (87%)



- Red (13%)
- Yellow (47%)
- Blue (87%)



- Cyan (86%)
- Magenta (12%)
- Yellow (0%)
- Black (13%)




- Cyan (87%)
- Magenta (23%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.1146, 0.2164, 0.2901 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 45.1146, 0.2164, 0.2901 by changing the saturation by 10% instead.





 45.1146, 0.2164,  
0.2901

 45.1146, 0.2164,  
0.2901


367.2375, 0.2627,  
0.3110


 31.5477, 0.2055,  
0.2845


 82.8924, 0.2327,  
0.2980


 21.0163, 0.1921,  
0.2773


 107.8720, 0.2390,  
0.3009

 13.1359, 0.1749,  
0.2674


 137.4247, 0.2444,  
0.3033

 7.5222, 0.1526,  
0.2533

 171.9348, 0.2490,  
0.3053

 3.7908, 0.1230,  
0.2323

 211.7867, 0.2531,  
0.3070

 1.5572, 0.0815,  
0.1988

257.3649, 0.2567,

 0.3285, 0.0000,

0.3085

0.1137

309.0537, 0.2599,  
0.3099

■ 0.0000, 0.0000,  
0.0000

■ 45.1146, 0.2164,  
0.2901

■ 45.1146, 0.2164,  
0.2901

■ 43.4654, 0.2131,  
0.2851

■ 47.0378, 0.2216,  
0.2951

■ 42.8034, 0.2120,  
0.2830

■ 49.2724, 0.2287,  
0.3002

■ 51.8544, 0.2377,  
0.3051

■ 54.8133, 0.2484,  
0.3100

■ 58.1753, 0.2608,  
0.3147

■ 61.9640, 0.2743,  
0.3191

■ 66.2013, 0.2888,  
0.3232

■ 70.9073, 0.3040,  
0.3270

■ 76.1009, 0.3194,  
0.3305

# Harmonies

## Analogous

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



45.1146, 0.2374, 0.3418



45.1146, 0.2164, 0.2901



45.1146, 0.2184, 0.2558

# Triad

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



45.1146, 0.2164, 0.2901



45.1146, 0.3415, 0.2742



45.1146, 0.3818, 0.4226

# Complementary

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



45.1146, 0.2164, 0.2901



18.9148, 0.5920, 0.3472

# 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.



45.1146, 0.4150, 0.3937



45.1146, 0.2164, 0.2901



45.1146, 0.3921, 0.3105

# Square

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



45.1146, 0.2164, 0.2901



45.1146, 0.2864, 0.2501



45.1146, 0.4197, 0.3529



45.1146, 0.3316, 0.4257

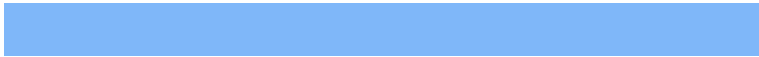


# Rectangle

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



45.1146, 0.2164, 0.2901



45.1146, 0.2322, 0.2449



45.1146, 0.4197, 0.3529



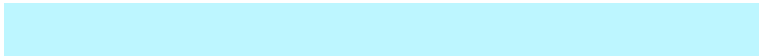
45.1146, 0.3954, 0.4151

# Sweetspot

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



45.1162, 0.2164, 0.2901



83.6881, 0.2736, 0.3188



53.3819, 0.2954, 0.5686



17.5171, 0.2687, 0.3173



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

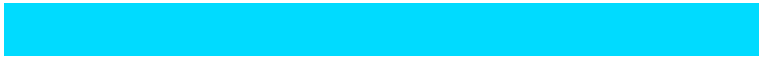


# Same Dimension

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



45.1162, 0.2164, 0.2901



57.8660, 0.2119, 0.2826



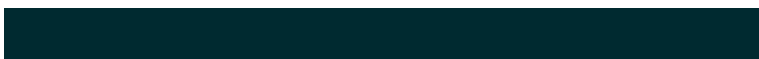
15.1376, 0.1768, 0.1434



15.2248, 0.2982, 0.3256



25.2940, 0.2122, 0.2838



1.8451, 0.2143, 0.2914



# Inverse Universe

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



20.7044, 0.3536, 0.1790



26.3728, 0.3610, 0.1762



38.5583, 0.4824, 0.4421



13.9006, 0.3159, 0.3091



11.4615, 0.3600, 0.1757

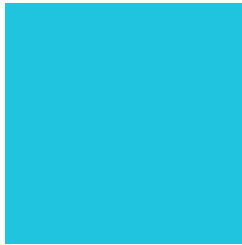


0.8037, 0.3531, 0.1719



# Previews

## White Background



This preview shows how the Yxy color 45.1146, 0.2164, 0.2901 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

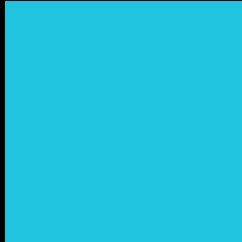
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.1146, 0.2164, 0.2901 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

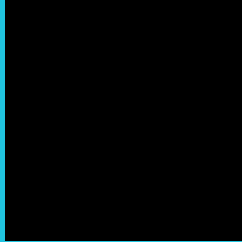
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.1146, 0.2164, 0.2901**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.1146, 0.2164, 0.2901.



This preview shows how white text looks on a background with the Yxy color 45.1146, 0.2164, 0.2901.

# 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

45.1146, 0.2164, 0.2901

### Protanopia

44.3120, 0.2833, 0.2864

### Deuteranopia

44.1984, 0.2679, 0.2615



## Tritanopia

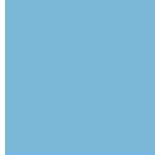
45.3013, 0.2186, 0.3053

# Trichromacy



## Original Color

45.1146, 0.2164, 0.2901



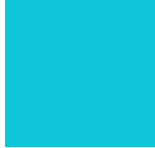
## Protanomaly

42.7151, 0.2463, 0.2858



## Deuteranomaly

42.8688, 0.2392, 0.2694



## Tritanomaly

45.0614, 0.2176, 0.2996

# Monochromacy



## Original Color

45.1146, 0.2164, 0.2901



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

33.9376, 0.2565, 0.3130

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.1146, 0.2164, 0.2901 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(32, 196, 223)` looks like.

```
.text, #text, p{  
    color:rgb(32, 196, 223)  
}
```

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(32, 196, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 196, 223) }
```

## Border

The CSS property to change the border of an element to Yxy 45.1146, 0.2164, 0.2901 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(32, 196, 223) }
```

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

```
.border{ border-color:rgb(32, 196, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(32, 196, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 196, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 196, 223);  
box-shadow:4px 4px 4px 4px rgb(32, 196,  
223) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.1146, 0.2164, 0.2901 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 196, 223) }
```

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

```
.background{ background-color: rgb(32, 196,  
223) }
```

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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