

Converting Colors

$Y_{xy}(65.1516, 0.2258, 0.2972)$

Have a look what the booklet for
Yxy(65.1516, 0.2258, 0.2972)
contains.

Yxy(64.9641, 0.2256, 0.2968)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(64.9641, 0.2256, 0.2968)

Conversions

Conversions Part 1

Format	Color
Hex	50E5FF
RGB	80, 229, 255
RGB Percent	31%, 90%, 100%
CMY	0.6860, 0.1020, 0.0000
CMYK	0.69, 0.10, 0.00, 0.00
HSL	189°, 100%, 66%
HSV	189°, 69%, 100%
XYZ	49.3797, 64.9641, 104.5379
YIQ	187.4130, -97.1500, -23.5020

Conversions

Conversions Part 2

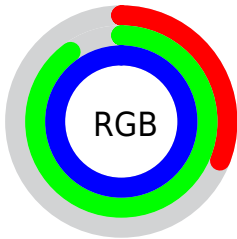
Format	Color
R _Y B	80, 160, 255
Decimal	5301759
CIE Lab	84.47, -31.09, -24.09
CIE LCh	84, 39.328, 217.769
Yxy	64.9641, 0.2256, 0.2968
Android (android.graphics.Color)	4283491839 (0xFF50E5FF)
YUV	187.4130, 33.3204, -94.2012
Hunter-Lab	80.6003, -31.6927, -20.4784

Details

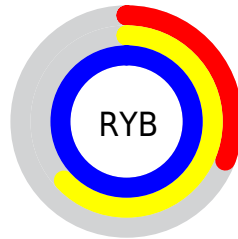
The Yxy color **64.9641, 0.2256, 0.2968** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light muted cyan. A complement of this color would be **32.1582, 0.5241, 0.3523**, and the grayscale version is **49.7988, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.1296, 0.2557, 0.3288**, and **33.9644, 0.2135, 0.2884** is the 20% darker color. If you saturate the color by 10%, you get **61.9842, 0.2190, 0.2914**, and if you desaturate by 10%, it is **68.4155, 0.2341, 0.3021**.

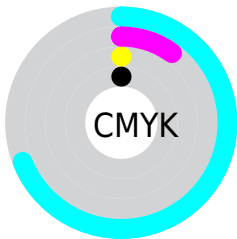
Distribution



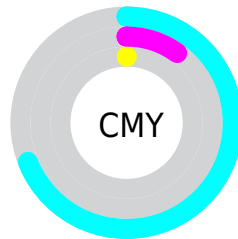
- Red (31%)
- Green (90%)
- Blue (100%)



- Red (31%)
- Yellow (63%)
- Blue (100%)



- Cyan (69%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)



- Cyan (69%)
- Magenta (10%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 64.9641, 0.2256, 0.2968 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 64.9641, 0.2256, 0.2968 by changing the saturation by 10% instead.

 64.9641, 0.2256,
0.2968


 64.9641, 0.2256,
0.2968


442.6629, 0.2651,
0.3132

 47.4320, 0.2169,
0.2927


 111.9982, 0.2391,
0.3028

 33.3773, 0.2062,
0.2876


 142.2690, 0.2444,
0.3050

 22.4156, 0.1931,
0.2808


 177.5549, 0.2490,
0.3069

 14.1626, 0.1764,
0.2717

 218.2401, 0.2531,
0.3085

 8.2338, 0.1548,
0.2587

264.7091, 0.2566,
0.3099

 4.2449, 0.1262,
0.2393

317.3463, 0.2598,

 1.8115, 0.0878,

0.3111

0.2083

376.5361, 0.2626,
0.3122

0.4943, 0.0000,
0.1479

0.0000, 0.0000,
0.0000

64.9641, 0.2256,
0.2968

64.9641, 0.2256,
0.2968

61.9842, 0.2190,
0.2914

68.4155, 0.2341,
0.3021

59.4179, 0.2144,
0.2861

72.3741, 0.2445,
0.3073

57.1954, 0.2115,
0.2809

76.8800, 0.2565,
0.3124

56.8989, 0.2112,
0.2801

81.9672, 0.2699,
0.3171

■ 87.6666, 0.2843,
0.3216

■ 94.0068, 0.2994,
0.3257

99.9996, 0.3127,
0.3290

Harmonies

Analogous

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



64.9641, 0.2463, 0.3438



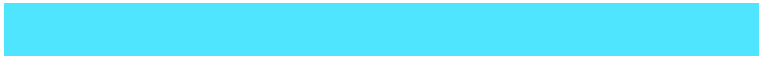
64.9641, 0.2256, 0.2968



64.9641, 0.2261, 0.2642

Triad

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



64.9641, 0.2256, 0.2968



64.9641, 0.3359, 0.2774



64.9641, 0.3780, 0.4127

Complementary

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



64.9641, 0.2256, 0.2968



32.1582, 0.5241, 0.3523

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.



64.9641, 0.4064, 0.3863



64.9641, 0.2256, 0.2968



64.9641, 0.3820, 0.3103

Square

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



64.9641, 0.2256, 0.2968



64.9641, 0.2863, 0.2561



64.9641, 0.4084, 0.3490



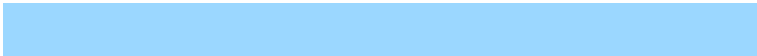
64.9641, 0.3333, 0.4163

Rectangle

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



64.9641, 0.2256, 0.2968



64.9641, 0.2380, 0.2531



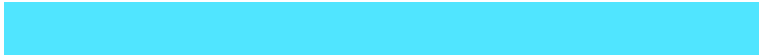
64.9641, 0.4084, 0.3490



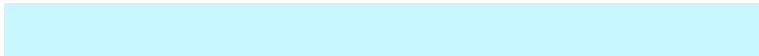
64.9641, 0.3899, 0.4059

Sweetspot

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



64.9665, 0.2256, 0.2968



86.2478, 0.2807, 0.3206



74.2111, 0.2950, 0.5270



18.1192, 0.2767, 0.3193



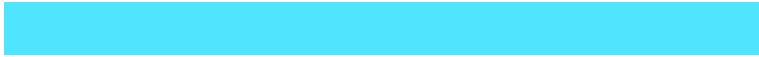
0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



64.9665, 0.2256, 0.2968



61.0720, 0.2172, 0.2896



28.9358, 0.1975, 0.1822



19.9943, 0.2980, 0.3254



29.9074, 0.2114, 0.2810



3.0315, 0.2131, 0.2870

Inverse Universe

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



32.6622, 0.3462, 0.1941



28.5842, 0.3538, 0.1817



59.0359, 0.4503, 0.4338



18.2512, 0.3161, 0.3090



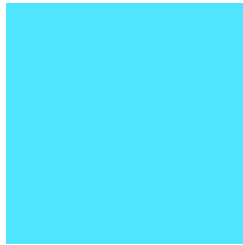
13.7471, 0.3625, 0.1771



1.3506, 0.3570, 0.1740

Previews

White Background



This preview shows how the Yxy color 64.9641, 0.2256, 0.2968 looks on a white background.

Color Contrast Check

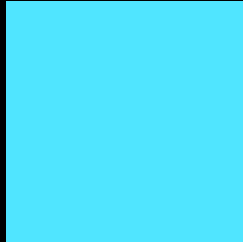
Large Text (above 18pt) WCAG AA × Fail

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 64.9641, 0.2256, 0.2968 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

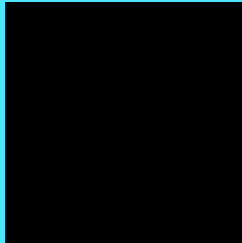
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 64.9641, 0.2256, 0.2968

Background



This preview shows how black text looks on a background with the Yxy color 64.9641, 0.2256, 0.2968.

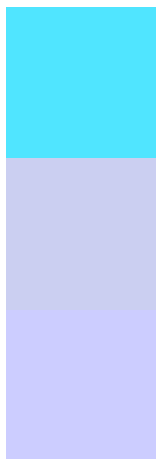


This preview shows how white text looks on a background with the Yxy color 64.9641, 0.2256, 0.2968.

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

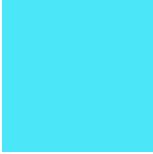
64.9641, 0.2256, 0.2968

Protanopia

63.6730, 0.2872, 0.2912

Deuteranopia

63.7200, 0.2792, 0.2747



Tritanopia

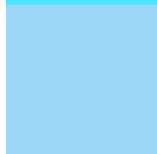
64.9697, 0.2272, 0.3051

Trichromacy



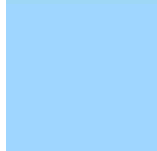
Original Color

64.9641, 0.2256, 0.2968



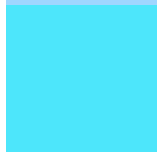
Protanomaly

62.5238, 0.2573, 0.2923



Deuteranomaly

62.6841, 0.2531, 0.2813



Tritanomaly

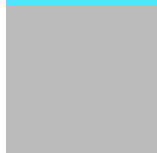
65.1364, 0.2267, 0.3027

Monochromacy



Original Color

64.9641, 0.2256, 0.2968



Achromatopsia

49.6933, 0.3127, 0.3290



Achromatomaly

53.2904, 0.2680, 0.3159

CSS Examples

Text

The CSS property to change the color of the text to Yxy 64.9641, 0.2256, 0.2968 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(80, 229, 255)` looks like.

```
.text, #text, p{  
    color:rgb(80, 229, 255)  
}
```

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(80, 229, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 229, 255) }
```

Border

The CSS property to change the border of an element to Yxy 64.9641, 0.2256, 0.2968 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(80, 229, 255) }
```

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

```
.border{ border-color:rgb(80, 229, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 229, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 229, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 229, 255);  
box-shadow:4px 4px 4px 4px rgb(80, 229,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 64.9641, 0.2256, 0.2968 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 229, 255) }
```

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

```
.background{ background-color: rgb(80, 229,  
255) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor