

# Converting Colors

$Yxy(59.7828, 0.2286, 0.2827)$

Have a look what the booklet for  
Yxy(59.7828, 0.2286, 0.2827)  
contains.

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# Color

**Yxy(59.6705, 0.2285, 0.2820)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66D9FF
RGB	102, 217, 255
RGB Percent	40%, 85%, 100%
CMY	0.5996, 0.1490, 0.0000
CMYK	0.60, 0.15, 0.00, 0.00
HSL	195°, 100%, 70%
HSV	195°, 60%, 100%
XYZ	48.3500, 59.6705, 103.5770
YIQ	186.9470, -80.7380, -12.5620

# Conversions

## Conversions Part 2

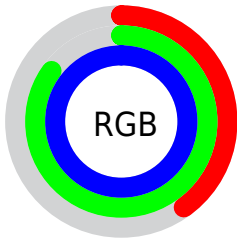
Format	Color
<a href="#">RYB</a>	<a href="#">102, 168, 255</a>
Decimal	<a href="#">6740479</a>
CIELab	<a href="#">81.66, -21.81, -28.32</a>
CIELCh	<a href="#">82, 35.742, 232.405</a>
Yxy	<a href="#">59.6705, 0.2285, 0.2820</a>
Android (android.graphics.Color)	<a href="#">4284930559</a> ( <a href="#">0xFF66D9FF</a> )
YUV	<a href="#">186.9470, 33.5501, -74.4985</a>
Hunter-Lab	<a href="#">77.2467, -23.4555, -25.4269</a>

# Details

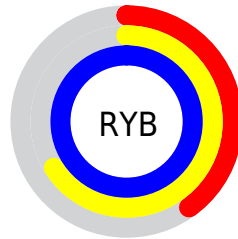
The Yxy color **59.6705, 0.2285, 0.2820** is a light color, and the websafe version is hex **33CCFF**. A complement of this color would be **41.0086, 0.4746, 0.3669**, and the grayscale version is **49.5188, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.7393, 0.2628, 0.3289**, and **30.0034, 0.2092, 0.2696** is the 20% darker color. If you saturate the color by 10%, you get **55.1981, 0.2188, 0.2727**, and if you desaturate by 10%, it is **64.7308, 0.2400, 0.2911**.

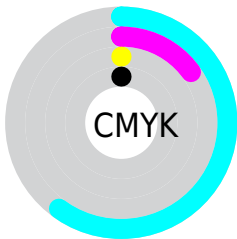
# Distribution



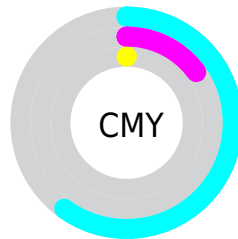
- Red (40%)
- Green (85%)
- Blue (100%)



- Red (40%)
- Yellow (66%)
- Blue (100%)



- Cyan (60%)
- Magenta (15%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (15%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 59.6705, 0.2285, 0.2820 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 59.6705, 0.2285, 0.2820 by changing the saturation by 10% instead.





 59.6705, 0.2285,  
0.2820

 59.6705, 0.2285,  
0.2820


423.3822, 0.2673,  
0.3052

 43.1531, 0.2198,  
0.2764

 104.3515, 0.2419,  
0.2903

 30.0053, 0.2092,  
0.2693


 133.2840, 0.2471,  
0.2935

 19.8426, 0.1959,  
0.2602


 167.1235, 0.2516,  
0.2962

 12.2807, 0.1790,  
0.2481

206.2546, 0.2555,  
0.2985

 6.9351, 0.1569,  
0.2312

251.0616, 0.2590,  
0.3005

 3.4216, 0.1273,  
0.2065

301.9290, 0.2621,

 1.3556, 0.0865,

0.3023

0.1689

359.2410, 0.2648,  
0.3038

0.1836, 0.0000,  
0.0623

0.0000, 0.0000,  
0.0000

59.6705, 0.2285,  
0.2820

59.6705, 0.2285,  
0.2820

55.1981, 0.2188,  
0.2727

64.7308, 0.2400,  
0.2911

51.2623, 0.2110,  
0.2633

70.4122, 0.2529,  
0.2998

47.8120, 0.2053,  
0.2540

76.7520, 0.2670,  
0.3080

44.7613, 0.2013,  
0.2447

83.7827, 0.2819,  
0.3156

■ 44.7498, 0.2013,  
0.2447

■ 91.5342, 0.2973,  
0.3226

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

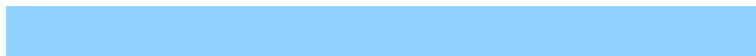
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



59.6705, 0.2385, 0.3206



59.6705, 0.2285, 0.2820



59.6705, 0.2387, 0.2598

# Triad

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



59.6705, 0.2285, 0.2820



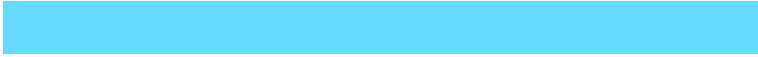
59.6705, 0.3568, 0.2946



59.6705, 0.3549, 0.4121

# Complementary

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



59.6705, 0.2285, 0.2820



41.0086, 0.4746, 0.3669

# 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.



59.6705, 0.3902, 0.3970



59.6705, 0.2285, 0.2820



59.6705, 0.3925, 0.3292

# Square

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



59.6705, 0.2285, 0.2820



59.6705, 0.3102, 0.2685



59.6705, 0.4047, 0.3660



59.6705, 0.3098, 0.4017



# Rectangle

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



59.6705, 0.2285, 0.2820



59.6705, 0.2560, 0.2551



59.6705, 0.4047, 0.3660



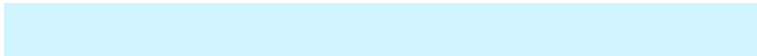
59.6705, 0.3683, 0.4095

# Sweetspot

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



59.6726, 0.2285, 0.2820



85.2451, 0.2849, 0.3170



76.1791, 0.2896, 0.4814



17.7836, 0.2805, 0.3149



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.



59.6726, 0.2285, 0.2820



54.3534, 0.2171, 0.2708



29.6573, 0.2064, 0.1836



19.6716, 0.2980, 0.3230



23.6314, 0.2017, 0.2462



2.4733, 0.2047, 0.2568



# Inverse Universe

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



35.7917, 0.3573, 0.2185



30.4389, 0.3695, 0.2042



70.4291, 0.4213, 0.4380



18.2187, 0.3176, 0.3113



13.1136, 0.3960, 0.1955

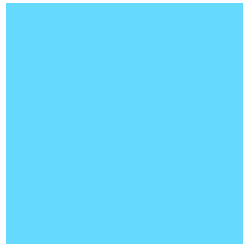


1.2942, 0.3855, 0.1897



# Previews

## White Background



This preview shows how the Yxy color 59.6705, 0.2285, 0.2820 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

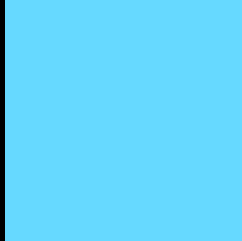
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 59.6705, 0.2285, 0.2820 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 59.6705, 0.2285, 0.2820**

## **Background**



This preview shows how black text looks on a background with the Yxy color 59.6705, 0.2285, 0.2820.

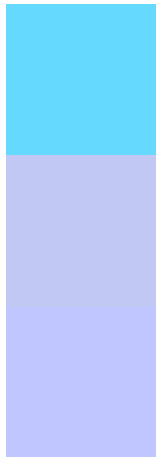


This preview shows how white text looks on a background with the Yxy color 59.6705, 0.2285, 0.2820.

# 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

59.6705, 0.2285, 0.2820

### Protanopia

58.9861, 0.2780, 0.2800

### Deuteranopia

58.8146, 0.2707, 0.2654



## Tritanopia

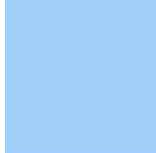
59.7391, 0.2336, 0.3057

# Trichromacy



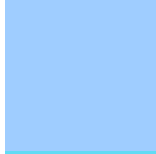
## Original Color

59.6705, 0.2285, 0.2820



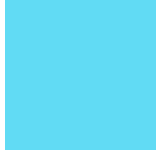
## Protanomaly

58.2289, 0.2558, 0.2802



## Deuteranomaly

58.2536, 0.2515, 0.2704



## Tritanomaly

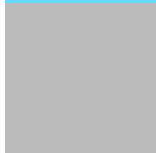
59.7361, 0.2318, 0.2972

# Monochromacy



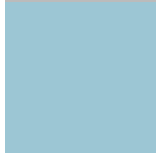
## Original Color

59.6705, 0.2285, 0.2820



## Achromatopsia

49.6933, 0.3127, 0.3290



## Achromatomaly

52.2096, 0.2726, 0.3109

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  59.6705, 0.2285, 0.2820 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(102, 217, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 217, 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(102, 217, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 217, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 59.6705, 0.2285, 0.2820 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(102, 217, 255) }
```

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

```
.border{ border-color:rgb(102, 217, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 217, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 217, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 217, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 217,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 59.6705, 0.2285, 0.2820 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 217, 255) }
```

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

```
.background{ background-color: rgb(102,  
217, 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](#).

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