

# Converting Colors

$Yxy(56.6352, 0.2321, 0.2724)$

Have a look what the booklet for  
Yxy(56.6352, 0.2321, 0.2724)  
contains.

<b>Yxy(56.6725, 0.2323, 0.2725)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(56.6725, 0.2323, 0.2725)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76D1FF
RGB	118, 209, 255
RGB Percent	46%, 82%, 100%
CMY	0.5375, 0.1803, 0.0001
CMYK	0.54, 0.18, 0.00, 0.00
HSL	200°, 100%, 73%
HSV	200°, 54%, 100%
XYZ	48.3120, 56.6725, 102.9880
YIQ	187.0350, -69.0020, -4.9860

# Conversions

## Conversions Part 2

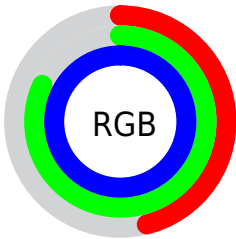
Format	Color
R <sub>Y</sub> B	118, 173, 255
Decimal	7787007
CIE Lab	80.00, -14.74, -30.81
CIE LCh	80, 34.158, 244.438
Yxy	56.6725, 0.2323, 0.2725
Android (android.graphics.Color)	4285977087 (0xFF76D1FF)
YUV	187.0350, 33.5067, -60.5437
Hunter-Lab	75.2811, -17.1888, -28.4146

# Details

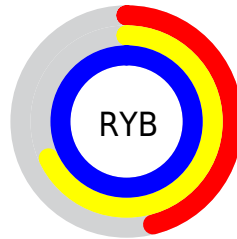
The Yxy color **56.6725, 0.2323, 0.2725** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **49.0788, 0.4430, 0.3764**, and the grayscale version is **49.5432, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.2050, 0.2691, 0.3289**, and **28.2500, 0.2136, 0.2586** is the 20% darker color. If you saturate the color by 10%, you get **51.0403, 0.2202, 0.2598**, and if you desaturate by 10%, it is **63.0164, 0.2458, 0.2847**.

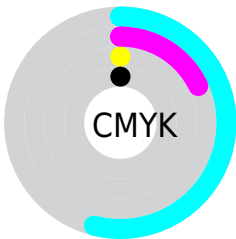
# Distribution



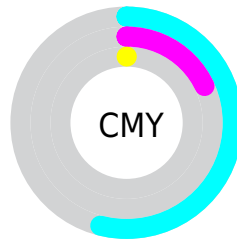
- Red (46%)
- Green (82%)
- Blue (100%)



- Red (46%)
- Yellow (68%)
- Blue (100%)



- Cyan (54%)
- Magenta (18%)
- Yellow (0%)
- Black (0%)




- Cyan (54%)
- Magenta (18%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.6725, 0.2323, 0.2725 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 56.6725, 0.2323, 0.2725 by changing the saturation by 10% instead.





 56.6725, 0.2323,  
0.2725


 56.6725, 0.2323,  
0.2725


412.2210, 0.2697,  
0.3000


 40.7424, 0.2238,  
0.2659


 99.9872, 0.2453,  
0.2823

 28.1178, 0.2134,  
0.2577


 128.1405, 0.2503,  
0.2860

 18.4145, 0.2003,  
0.2472


 161.1370, 0.2547,  
0.2892

 11.2480, 0.1835,  
0.2333

199.3610, 0.2585,  
0.2920

 6.2339, 0.1615,  
0.2142

243.1971, 0.2618,  
0.2944

 2.9878, 0.1316,  
0.1868

293.0295, 0.2648,

 1.1254, 0.0898,

0.2965

0.1460

349.2427, 0.2674,  
0.2984

0.0000, 0.0000,  
0.0000

56.6725, 0.2323,  
0.2725

56.6725, 0.2323,  
0.2725

51.0403, 0.2202,  
0.2598

63.0164, 0.2458,  
0.2847

46.0703, 0.2099,  
0.2468

70.1047, 0.2604,  
0.2963

41.7146, 0.2017,  
0.2338

77.9748, 0.2757,  
0.3070

37.9132, 0.1955,  
0.2209

86.6596, 0.2913,  
0.3169

35.7671, 0.1925,  
0.2130

96.1896, 0.3069,  
0.3259

99.9991, 0.3127,  
0.3290

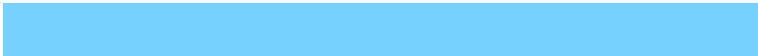
# Harmonies

## Analogous

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



56.6725, 0.2341, 0.3044



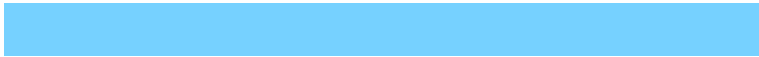
56.6725, 0.2323, 0.2725



56.6725, 0.2498, 0.2579

# Triad

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



56.6725, 0.2323, 0.2725



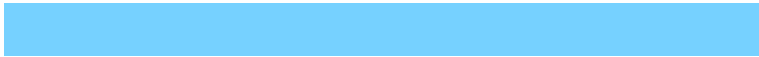
56.6725, 0.3716, 0.3084



56.6725, 0.3367, 0.4089

# Complementary

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



56.6725, 0.2323, 0.2725



49.0788, 0.4430, 0.3764

# 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.



56.6725, 0.3763, 0.4036



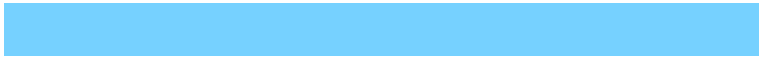
56.6725, 0.2323, 0.2725



56.6725, 0.3982, 0.3438

# Square

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



56.6725, 0.2323, 0.2725



56.6725, 0.3288, 0.2789



56.6725, 0.3995, 0.3784

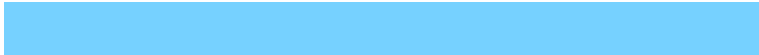


56.6725, 0.2925, 0.3881



# Rectangle

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



56.6725, 0.2323, 0.2725



56.6725, 0.2712, 0.2580



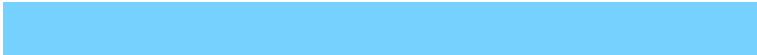
56.6725, 0.3995, 0.3784



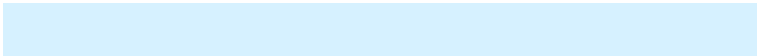
56.6725, 0.3510, 0.4099

# Sweetspot

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



56.6746, 0.2323, 0.2725



84.6437, 0.2878, 0.3148



78.0245, 0.2846, 0.4451



17.7282, 0.2846, 0.3128



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.



56.6746, 0.2323, 0.2725



50.3901, 0.2188, 0.2582



30.0483, 0.2139, 0.1837



19.3947, 0.2980, 0.3208



18.9779, 0.1931, 0.2151



2.0494, 0.1971, 0.2296



# Inverse Universe

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



38.8019, 0.3639, 0.2385



32.5888, 0.3795, 0.2241



80.3580, 0.4021, 0.4403



18.1907, 0.3190, 0.3133



12.6438, 0.4285, 0.2134

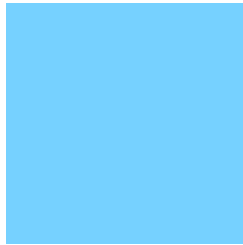


1.2514, 0.4130, 0.2049



# Previews

## White Background



This preview shows how the Yxy color 56.6725, 0.2323, 0.2725 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

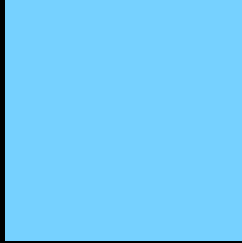
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.6725, 0.2323, 0.2725 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

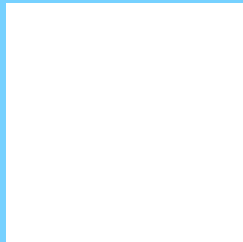
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 56.6725, 0.2323, 0.2725**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.6725, 0.2323, 0.2725.



This preview shows how white text looks on a background with the Yxy color 56.6725, 0.2323, 0.2725.

# 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

56.6725, 0.2323, 0.2725

### Protanopia

55.9371, 0.2716, 0.2713

### Deuteranopia

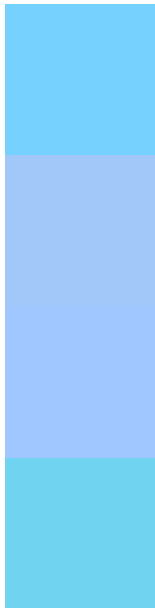
55.9939, 0.2650, 0.2598



## Tritanopia

56.6092, 0.2403, 0.3055

# Trichromacy



**Original Color**

56.6725, 0.2323, 0.2725

**Protanomaly**

55.7252, 0.2549, 0.2708

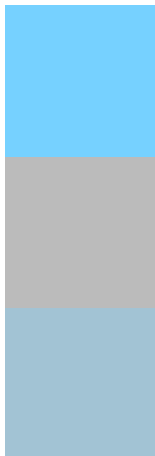
**Deuteranomaly**

55.5404, 0.2510, 0.2632

**Tritanomaly**

56.8230, 0.2372, 0.2933

# Monochromacy



**Original Color**

56.6725, 0.2323, 0.2725

**Achromatopsia**

49.6933, 0.3127, 0.3290

**Achromatomaly**

51.4651, 0.2763, 0.3072

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  56.6725, 0.2323, 0.2725 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(118, 209, 255)` looks like.

```
.text, #text, p{  
    color:rgb(118, 209, 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(118, 209, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 209, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 56.6725, 0.2323, 0.2725 is called "border". The border property can be set on classes, ids or directly on the HTML element.

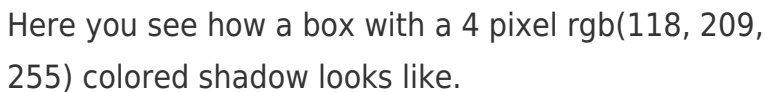
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(118, 209, 255) }
```

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

```
.border{ border-color:rgb(118, 209, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(118, 209, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(118, 209, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(118, 209, 255); box-shadow:4px 4px 4px 4px rgb(118, 209, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.6725, 0.2323, 0.2725 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 209, 255) }
```

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

```
.background{ background-color: rgb(118,  
209, 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