

# Converting Colors

$Y_{xy}(67.7663, 0.2204, 0.3056)$

Have a look what the booklet for  
Yxy(67.7663, 0.2204, 0.3056)  
contains.

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# Color

**Yxy(67.5860, 0.2203, 0.3052)**

# Conversions

## Conversions Part 1

Format	Color
Hex	25ECFF
RGB	37, 236, 255
RGB Percent	15%, 93%, 100%
CMY	0.8568, 0.0746, 0.0000
CMYK	0.86, 0.07, 0.00, 0.00
HSL	185°, 100%, 57%
HSV	185°, 86%, 100%
XYZ	48.7850, 67.5860, 105.0772
YIQ	178.6650, -124.7030, -36.2790

# Conversions

## Conversions Part 2

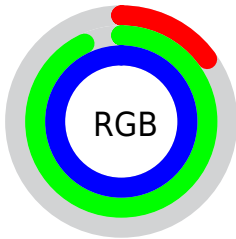
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	37, 141, 255
Decimal	2485503
CIE Lab	85.80, -38.46, -22.13
CIE LCh	86, 44.369, 209.914
Yxy	67.5860, 0.2203, 0.3052
Android (android.graphics.Color)	4280675583 (0xFF25ECFF)
YUV	178.6650, 37.6332, -124.2402
Hunter-Lab	82.2107, -37.9442, -18.2337

# Details

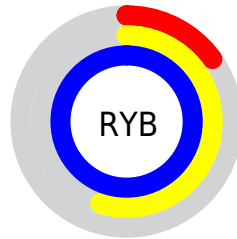
The Yxy color **67.5860, 0.2203, 0.3052** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **24.1721, 0.6030, 0.3393**, and the grayscale version is **44.6523, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.1756, 0.2467, 0.3288**, and **36.7197, 0.2167, 0.3001** is the 20% darker color. If you saturate the color by 10%, you get **66.0058, 0.2177, 0.3022**, and if you desaturate by 10%, it is **69.5140, 0.2247, 0.3082**.

# Distribution



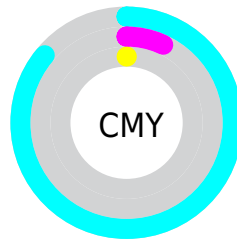
- Red (15%)
- Green (93%)
- Blue (100%)



- Red (15%)
- Yellow (55%)
- Blue (100%)



- Cyan (86%)
- Magenta (7%)
- Yellow (0%)
- Black (0%)




- Cyan (86%)
- Magenta (7%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.5860, 0.2203, 0.3052 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 67.5860, 0.2203, 0.3052 by changing the saturation by 10% instead.



 67.5860, 0.2203,  
0.3052

 67.5860, 0.2203,  
0.3052


452.0278, 0.2619,  
0.3178

 49.5610, 0.2112,  
0.3020


 115.7597, 0.2344,  
0.3099


 35.0647, 0.2002,  
0.2978


 146.6772, 0.2400,  
0.3116

 23.7127, 0.1866,  
0.2923

 182.6609, 0.2449,  
0.3131

 15.1207, 0.1695,  
0.2846

 224.0954, 0.2491,  
0.3143

 8.9041, 0.1475,  
0.2737

271.3649, 0.2529,  
0.3154

 4.6787, 0.1188,  
0.2568

324.8539, 0.2562,

 2.0600, 0.0805,

0.3163

0.2293

384.9467, 0.2592,  
0.3171

■ 0.6420, 0.0000,  
0.1814

■ 0.0000, 0.0000,  
0.0000

■ 67.5860, 0.2203,  
0.3052

■ 67.5860, 0.2203,  
0.3052

■ 66.0058, 0.2177,  
0.3022

■ 69.5140, 0.2247,  
0.3082

■ 65.3911, 0.2169,  
0.3010

■ 71.8418, 0.2310,  
0.3113

■ 74.6196, 0.2392,  
0.3143

■ 77.8884, 0.2494,  
0.3172

81.6845, 0.2612,  
0.3201

86.0407, 0.2744,  
0.3228

90.9868, 0.2887,  
0.3254

96.5509, 0.3039,  
0.3277

99.9997, 0.3127,  
0.3290

# Harmonies

## Analogous

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



67.5860, 0.2485, 0.3600



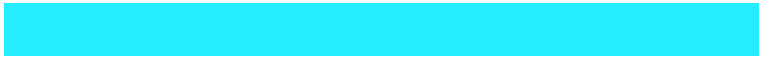
67.5860, 0.2203, 0.3052



67.5860, 0.2149, 0.2643

# Triad

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



67.5860, 0.2203, 0.3052



67.5860, 0.3234, 0.2646



67.5860, 0.3954, 0.4158

# Complementary

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



67.5860, 0.2203, 0.3052



24.1721, 0.6030, 0.3393

# 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.



67.5860, 0.4205, 0.3814



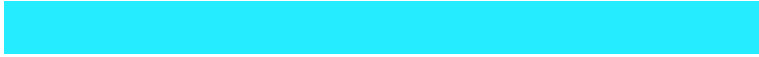
67.5860, 0.2203, 0.3052



67.5860, 0.3778, 0.2977

# Square

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



67.5860, 0.2203, 0.3052



67.5860, 0.2704, 0.2454



67.5860, 0.4146, 0.3390



67.5860, 0.3489, 0.4288

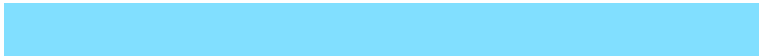


# Rectangle

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



67.5860, 0.2203, 0.3052



67.5860, 0.2240, 0.2486



67.5860, 0.4146, 0.3390



67.5860, 0.4067, 0.4060

# Sweetspot

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



67.5885, 0.2203, 0.3052



85.8954, 0.2739, 0.3227



72.1750, 0.2977, 0.5778



18.0496, 0.2692, 0.3218



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.



67.5885, 0.2203, 0.3052



65.3934, 0.2169, 0.3010



22.9251, 0.1800, 0.1559



20.1951, 0.2980, 0.3269



34.2816, 0.2171, 0.3015



3.4140, 0.2180, 0.3048



# Inverse Universe

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



28.6079, 0.3404, 0.1708



27.1327, 0.3446, 0.1672



47.9272, 0.4947, 0.4324



18.2715, 0.3151, 0.3076



14.1887, 0.3441, 0.1669

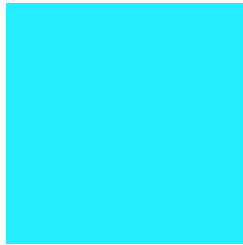


1.3892, 0.3412, 0.1653



# Previews

## White Background



This preview shows how the Yxy color 67.5860, 0.2203, 0.3052 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

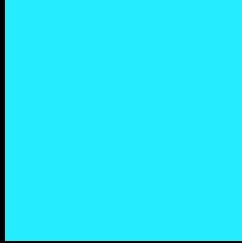
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.5860, 0.2203, 0.3052 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

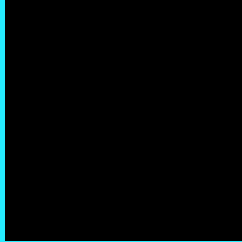
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

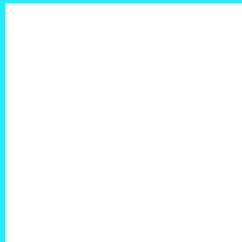
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 67.5860, 0.2203, 0.3052**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.5860, 0.2203, 0.3052.

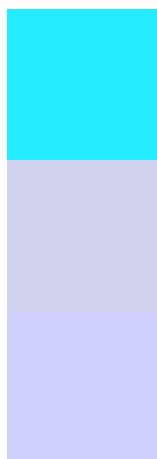


This preview shows how white text looks on a background with the Yxy color 67.5860, 0.2203, 0.3052.

# 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

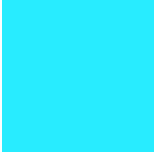
67.6042, 0.2204, 0.3052

### Protanopia

66.3758, 0.2928, 0.2982

### Deuteranopia

66.3762, 0.2828, 0.2796



## **Tritanopia**

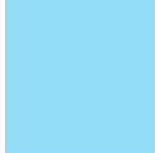
67.6620, 0.2207, 0.3052

# Trichromacy



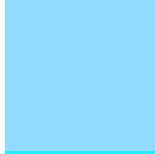
## Original Color

67.6042, 0.2204, 0.3052



## Protanomaly

63.8900, 0.2524, 0.2990



## Deuteranomaly

63.9940, 0.2474, 0.2866



## Tritanomaly

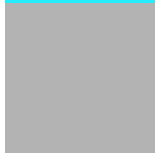
67.6422, 0.2206, 0.3052

# Monochromacy



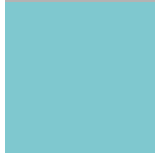
## Original Color

67.6042, 0.2204, 0.3052



## Achromatopsia

45.0786, 0.3127, 0.3290



## Achromatomaly

50.3256, 0.2581, 0.3193

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.5860, 0.2203, 0.3052 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(37, 236, 255)` looks like.

```
.text, #text, p{  
    color:rgb(37, 236, 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(37, 236, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 236, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 67.5860, 0.2203, 0.3052 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(37, 236, 255) }
```

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

```
.border{ border-color:rgb(37, 236, 255) }
```

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

Here you see how a box with a 4 pixel rgb(37, 236, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 236, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 236, 255);  
box-shadow:4px 4px 4px 4px rgb(37, 236,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.5860, 0.2203, 0.3052 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 236, 255) }
```

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

```
.background{ background-color: rgb(37, 236,  
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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