

# Converting Colors

$Y_{xy}(65.7813, 0.2515, 0.3109)$

Have a look what the booklet for  
Yxy(65.7813, 0.2515, 0.3109)  
contains.

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# Color

**Yxy(66.0023, 0.2516, 0.3119)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89E2F0
RGB	137, 226, 240
RGB Percent	54%, 89%, 94%
CMY	0.4627, 0.1137, 0.0588
CMYK	0.43, 0.06, 0.00, 0.06
HSL	188°, 77%, 74%
HSV	188°, 43%, 94%
XYZ	53.2420, 66.0023, 92.3694
YIQ	200.9850, -57.5380, -14.5140

# Conversions

## Conversions Part 2

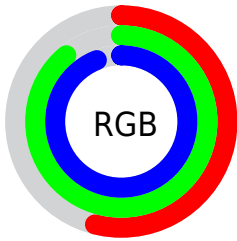
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	137, 185, 240
Decimal	9036528
CIE <sub>Lab</sub>	85.00, -23.17, -15.20
CIE <sub>LCh</sub>	85, 27.705, 213.264
Yxy	66.0023, 0.2516, 0.3119
Android (android.graphics.Color)	4287226608 (0xFF89E2F0)
YUV	200.9850, 19.2344, -56.1148
Hunter-Lab	81.2418, -25.1928, -10.5416

# Details

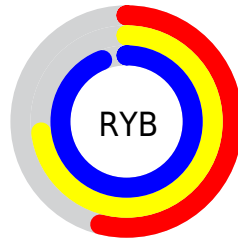
The Yxy color **66.0023, 0.2516, 0.3119** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **42.4685, 0.4184, 0.3449**, and the grayscale version is **58.3074, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.3421, 0.2778, 0.3289**, and **33.8724, 0.2373, 0.3062** is the 20% darker color. If you saturate the color by 10%, you get **62.4398, 0.2404, 0.3073**, and if you desaturate by 10%, it is **70.0547, 0.2643, 0.3163**.

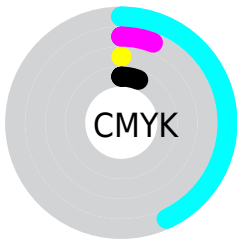
# Distribution



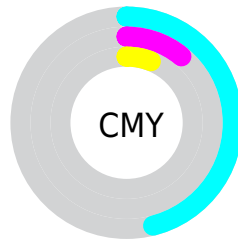
- Red (54%)
- Green (89%)
- Blue (94%)



- Red (54%)
- Yellow (73%)
- Blue (94%)



- Cyan (43%)
- Magenta (6%)
- Yellow (0%)
- Black (6%)




- Cyan (46%)
- Magenta (11%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.0023, 0.2516, 0.3119 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 66.0023, 0.2516, 0.3119 by changing the saturation by 10% instead.





 66.0023, 0.2516,  
0.3119


 66.0023, 0.2516,  
0.3119


446.3851, 0.2797,  
0.3206

 48.2743, 0.2452,  
0.3097

 113.4896, 0.2613,  
0.3151

 34.0441, 0.2374,  
0.3069

 144.0177, 0.2651,  
0.3163

 22.9275, 0.2276,  
0.3033

179.5813, 0.2684,  
0.3173

 14.5400, 0.2149,  
0.2982

220.5647, 0.2712,  
0.3181

 8.4972, 0.1980,  
0.2909

267.3524, 0.2737,  
0.3189

 4.4147, 0.1743,  
0.2796

320.3288, 0.2760,

 1.9081, 0.1397,

0.3195

0.2602

379.8782, 0.2779,  
0.3201

0.5533, 0.0000,  
0.2304

0.0000, 0.0000,  
0.0000

66.0023, 0.2516,  
0.3119

66.0023, 0.2516,  
0.3119

62.4398, 0.2404,  
0.3073

70.0547, 0.2643,  
0.3163

59.3291, 0.2310,  
0.3025

74.6171, 0.2781,  
0.3205

56.6386, 0.2235,  
0.2976

79.7174, 0.2929,  
0.3244

54.3290, 0.2179,  
0.2928

85.3792, 0.3082,  
0.3280

■ 52.3526, 0.2142,  
0.2880

■ 91.2408, 0.3225,  
0.3313

■ 51.1017, 0.2124,  
0.2846

■ 93.2032, 0.3222,  
0.3344

■ 95.2004, 0.3219,  
0.3376

■ 97.2326, 0.3217,  
0.3407

■ 99.0712, 0.3214,  
0.3434

# Harmonies

## Analogous

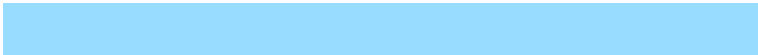
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



66.0023, 0.2692, 0.3449



66.0023, 0.2516, 0.3119



66.0023, 0.2494, 0.2863

# Triad

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



66.0023, 0.2516, 0.3119



66.0023, 0.3241, 0.2889



66.0023, 0.3633, 0.3864

# Complementary

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



66.0023, 0.2516, 0.3119



42.4685, 0.4184, 0.3449

# 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.



66.0023, 0.3800, 0.3674



66.0023, 0.2516, 0.3119



66.0023, 0.3570, 0.3122

# Square

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



66.0023, 0.2516, 0.3119



66.0023, 0.2896, 0.2749



66.0023, 0.3779, 0.3403



66.0023, 0.3332, 0.3900

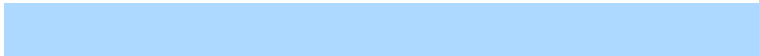


# Rectangle

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



66.0023, 0.2516, 0.3119



66.0023, 0.2567, 0.2762



66.0023, 0.3779, 0.3403



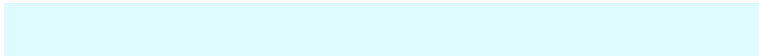
66.0023, 0.3707, 0.3814

# Sweetspot

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



66.0049, 0.2516, 0.3119



91.4050, 0.2927, 0.3244



69.8651, 0.2995, 0.4448



19.2757, 0.2893, 0.3235



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

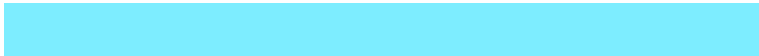


# Same Dimension

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



66.0049, 0.2516, 0.3119



72.3331, 0.2423, 0.3081



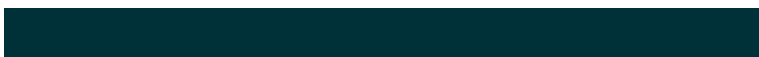
42.1836, 0.2404, 0.2454



17.5411, 0.2981, 0.3257



28.1191, 0.2126, 0.2854



2.4395, 0.2144, 0.2917



# Inverse Universe

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



41.9118, 0.3302, 0.2362



42.0480, 0.3344, 0.2201



62.6844, 0.3929, 0.3997



15.9923, 0.3159, 0.3088



12.6320, 0.3585, 0.1748

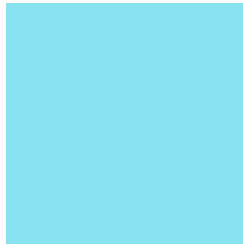


1.0610, 0.3528, 0.1717



# Previews

## White Background



This preview shows how the Yxy color 66.0023, 0.2516, 0.3119 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

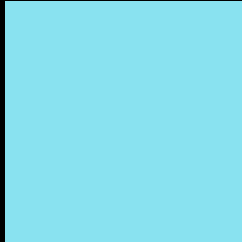
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.0023, 0.2516, 0.3119 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

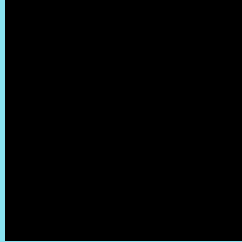
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 66.0023, 0.2516, 0.3119**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.0023, 0.2516, 0.3119.



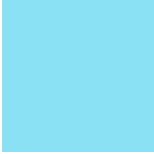
This preview shows how white text looks on a background with the Yxy color 66.0023, 0.2516, 0.3119.

# 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





## **Tritanopia**

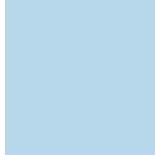
65.7854, 0.2500, 0.3060

# Trichromacy



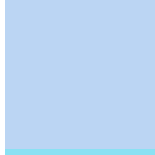
## Original Color

66.0023, 0.2516, 0.3119



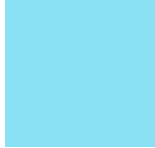
## Protanomaly

65.1195, 0.2788, 0.3081



## Deuteranomaly

64.6244, 0.2759, 0.2949



## Tritanomaly

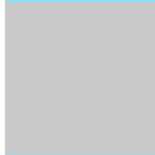
65.7248, 0.2504, 0.3072

# Monochromacy



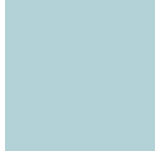
## Original Color

66.0023, 0.2516, 0.3119



## Achromatopsia

58.4078, 0.3127, 0.3290



## Achromatomaly

60.4645, 0.2866, 0.3229

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.0023, 0.2516, 0.3119 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(137, 226, 240)` looks like.

```
.text, #text, p{  
    color:rgb(137, 226, 240)  
}
```

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(137, 226, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 226, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 66.0023, 0.2516, 0.3119 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(137, 226, 240) }
```

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

```
.border{ border-color:rgb(137, 226, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 226, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 226, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 226, 240);  
box-shadow:4px 4px 4px 4px rgb(137, 226,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.0023, 0.2516, 0.3119 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 226, 240) }
```

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

```
.background{ background-color: rgb(137,  
226, 240) }
```

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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