

Converting Colors

$Y_{xy}(67.9989, 0.2146, 0.2647)$

Have a look what the booklet for
Yxy(67.9989, 0.2146, 0.2647)
contains.

Yxy(65.9496, 0.2255, 0.2993)	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(65.9496, 0.2255, 0.2993)

Conversions

Conversions Part 1

Format	Color
Hex	4DE7FF
RGB	77, 231, 255
RGB Percent	30%, 91%, 100%
CMY	0.6978, 0.0941, 0.0000
CMYK	0.70, 0.09, 0.00, 0.00
HSL	188°, 100%, 65%
HSV	188°, 70%, 100%
XYZ	49.6881, 65.9496, 104.7085
YIQ	187.6900, -99.4880, -25.1840

Conversions

Conversions Part 2

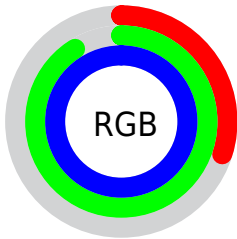
Format	Color
RYB	77, 160, 255
Decimal	5105663
CIELab	84.97, -32.43, -23.32
CIELCh	85, 39.948, 215.721
Yxy	65.9496, 0.2255, 0.2993
Android (android.graphics.Color)	4283295743 (0xFF4DE7FF)
YUV	187.6900, 33.1838, -97.0751
Hunter-Lab	81.2094, -32.9009, -19.5999

Details

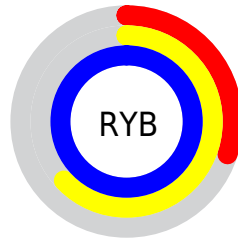
The Yxy color **65.9496, 0.2255, 0.2993** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **31.1122, 0.5314, 0.3500**, and the grayscale version is **49.9656, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.9430, 0.2549, 0.3288**, and **34.7372, 0.2144, 0.2918** is the 20% darker color. If you saturate the color by 10%, you get **63.1845, 0.2194, 0.2945**, and if you desaturate by 10%, it is **69.1728, 0.2336, 0.3041**.

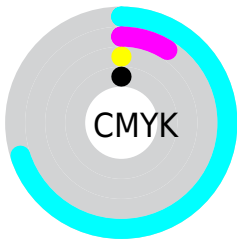
Distribution



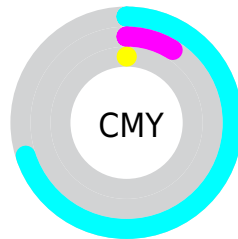
- Red (30%)
- Green (91%)
- Blue (100%)



- Red (30%)
- Yellow (63%)
- Blue (100%)



- Cyan (70%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)





- Cyan (70%)
- Magenta (9%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 65.9496, 0.2255, 0.2993 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 65.9496, 0.2255, 0.2993 by changing the saturation by 10% instead.


 65.9496, 0.2255,
0.2993


 65.9496, 0.2255,
0.2993


446.1966, 0.2650,
0.3145

 48.2315, 0.2168,
0.2955


 113.4140, 0.2390,
0.3048


 34.0102, 0.2062,
0.2907

 143.9291, 0.2443,
0.3069

 22.9015, 0.1931,
0.2844


 179.4786, 0.2489,
0.3087

 14.5208, 0.1765,
0.2758

 220.4469, 0.2529,
0.3102

 8.4838, 0.1551,
0.2635

267.2185, 0.2565,
0.3115

 4.4060, 0.1267,
0.2451

320.1777, 0.2596,

 1.9032, 0.0887,

0.3126

379.7090, 0.2624,
0.3136

0.2155

0.5503, 0.0000,
0.1612

0.0000, 0.0000,
0.0000

65.9496, 0.2255,
0.2993

65.9496, 0.2255,
0.2993

63.1845, 0.2194,
0.2945

69.1728, 0.2336,
0.3041

60.8184, 0.2151,
0.2897

72.8905, 0.2436,
0.3088

58.7708, 0.2125,
0.2850

77.1432, 0.2553,
0.3134

58.7269, 0.2125,
0.2849

81.9652, 0.2684,
0.3177

■ 87.3875, 0.2826,
0.3218

■ 93.4392, 0.2976,
0.3256

99.9993, 0.3127,
0.3290

Harmonies

Analogous

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



65.9496, 0.2477, 0.3474



65.9496, 0.2255, 0.2993



65.9496, 0.2245, 0.2651

Triad

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



65.9496, 0.2255, 0.2993



65.9496, 0.3326, 0.2750



65.9496, 0.3813, 0.4124

Complementary

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



65.9496, 0.2255, 0.2993



31.1122, 0.5314, 0.3500

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.



65.9496, 0.4084, 0.3845



65.9496, 0.2255, 0.2993



65.9496, 0.3800, 0.3076

Square

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



65.9496, 0.2255, 0.2993



65.9496, 0.2829, 0.2545



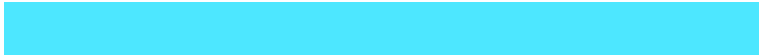
65.9496, 0.4085, 0.3465



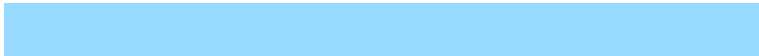
65.9496, 0.3368, 0.4180

Rectangle

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



65.9496, 0.2255, 0.2993



65.9496, 0.2356, 0.2531



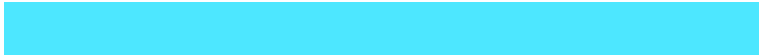
65.9496, 0.4085, 0.3465



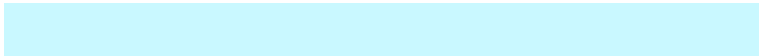
65.9496, 0.3928, 0.4049

Sweetspot

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



65.9520, 0.2255, 0.2993



86.6997, 0.2808, 0.3213



74.0292, 0.2949, 0.5304



18.2281, 0.2768, 0.3202



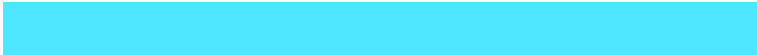
0.0000, 0.0000, 0.0000



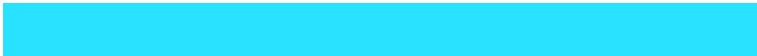
21.4041, 0.3127, 0.3290

Same Dimension

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



65.9520, 0.2255, 0.2993



62.1456, 0.2173, 0.2924



28.2360, 0.1958, 0.1793



20.0390, 0.2980, 0.3257



30.8509, 0.2127, 0.2857



3.1144, 0.2142, 0.2911

Inverse Universe

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



32.3442, 0.3442, 0.1909



28.3297, 0.3515, 0.1785



58.5134, 0.4528, 0.4348



18.2558, 0.3159, 0.3087



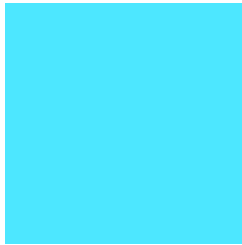
13.8424, 0.3583, 0.1747



1.3589, 0.3534, 0.1720

Previews

White Background



This preview shows how the Yxy color 65.9496, 0.2255, 0.2993 looks on a white background.

Color Contrast Check

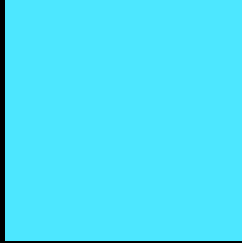
Large Text (above 18pt) WCAG AA × Fail

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 65.9496, 0.2255, 0.2993 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

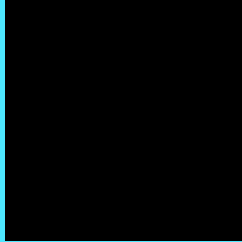
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 65.9496, 0.2255, 0.2993

Background



This preview shows how black text looks on a background with the Yxy color 65.9496, 0.2255, 0.2993.

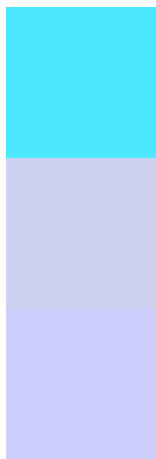


This preview shows how white text looks on a background with the Yxy color 65.9496, 0.2255, 0.2993.

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

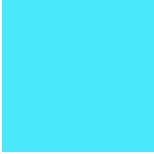
65.9496, 0.2255, 0.2993

Protanopia

64.8713, 0.2893, 0.2946

Deuteranopia

64.9675, 0.2807, 0.2771



Tritanopia

66.1341, 0.2266, 0.3052

Trichromacy



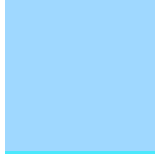
Original Color

65.9496, 0.2255, 0.2993



Protanomaly

63.4874, 0.2581, 0.2958



Deuteranomaly

63.7027, 0.2535, 0.2837



Tritanomaly

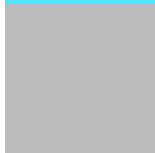
66.2374, 0.2264, 0.3041

Monochromacy



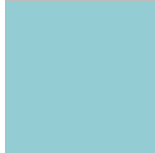
Original Color

65.9496, 0.2255, 0.2993



Achromatopsia

50.2886, 0.3127, 0.3290



Achromatomaly

54.2351, 0.2683, 0.3185

CSS Examples

Text

The CSS property to change the color of the text to Yxy 65.9496, 0.2255, 0.2993 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(77, 231, 255)` looks like.

```
.text, #text, p{  
    color:rgb(77, 231, 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(77, 231, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 231, 255) }
```

Border

The CSS property to change the border of an element to Yxy 65.9496, 0.2255, 0.2993 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(77, 231, 255) }
```

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

```
.border{ border-color:rgb(77, 231, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 231, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 231, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 231, 255);  
box-shadow:4px 4px 4px 4px rgb(77, 231,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 65.9496, 0.2255, 0.2993 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 231, 255) }
```

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

```
.background{ background-color: rgb(77, 231,  
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