

# Converting Colors

$Y_{xy}(65.5635, 0.2256, 0.3287)$

Have a look what the booklet for  
Yxy(65.5635, 0.2256, 0.3287)  
contains.

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# Color

**Yxy(65.5635, 0.2256, 0.3287)**

# Conversions

## Conversions Part 1

Format	Color
Hex	14EBEB
RGB	20, 235, 235
RGB Percent	8%, 92%, 92%
CMY	0.9205, 0.0784, 0.0783
CMYK	0.91, 0.00, 0.00, 0.08
HSL	180°, 84%, 50%
HSV	180°, 91%, 92%
XYZ	44.9989, 65.5635, 88.9007
YIQ	170.7150, -128.1400, -45.5800

# Conversions

## Conversions Part 2

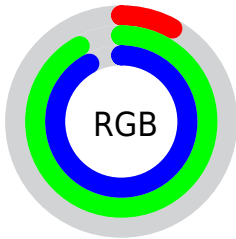
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 128, 235
Decimal	1371115
CIE <sub>Lab</sub>	84.77, -44.67, -13.18
CIE <sub>LCh</sub>	85, 46.577, 196.441
Yxy	65.5635, 0.2256, 0.3287
Android (android.graphics.Color)	4279561195 (0xFF14EBEB)
YUV	170.7150, 31.6925, -132.1771
Hunter-Lab	80.9713, -42.5004, -8.4163

# Details

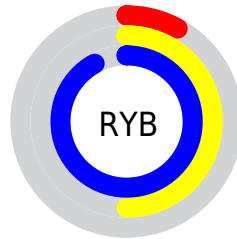
The Yxy color **65.5635, 0.2256, 0.3287** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **18.2297, 0.6272, 0.3299**, and the grayscale version is **40.5044, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6619, 0.2443, 0.3288**, and **35.0955, 0.2242, 0.3271** is the 20% darker color. If you saturate the color by 10%, you get **65.4126, 0.2246, 0.3287**, and if you desaturate by 10%, it is **65.9469, 0.2280, 0.3287**.

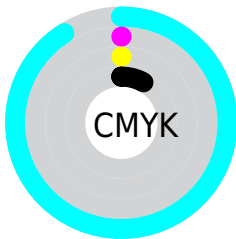
# Distribution



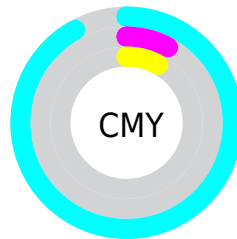
- Red (8%)
- Green (92%)
- Blue (92%)



- Red (8%)
- Yellow (50%)
- Blue (92%)



- Cyan (91%)
- Magenta (0%)
- Yellow (0%)
- Black (8%)




- Cyan (92%)
- Magenta (8%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.5635, 0.2256, 0.3287 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 65.5635, 0.2256, 0.3287 by changing the saturation by 10% instead.





 65.5635, 0.2256,  
0.3287

 65.5635, 0.2256,  
0.3287


 444.8142, 0.2654,  
0.3302

 47.9181, 0.2167,  
0.3280

 112.8596, 0.2393,  
0.3295

 33.7621, 0.2059,  
0.3270


 143.2792, 0.2446,  
0.3297

 22.7109, 0.1924,  
0.3255


 178.7256, 0.2492,  
0.3299

 14.3802, 0.1752,  
0.3230

 219.5832, 0.2533,  
0.3300

 8.3855, 0.1527,  
0.3187

 266.2365, 0.2569,  
0.3300

 4.3426, 0.1225,  
0.3108

 319.0698, 0.2600,

 1.8670, 0.0738,

0.3301

0.2970

378.4676, 0.2628,  
0.3301

■ 0.5284, 0.0000,  
0.2481

■ 0.0000, 0.0000,  
0.0000

■ 65.5635, 0.2256,  
0.3287

■ 65.5635, 0.2256,  
0.3287

■ 65.4126, 0.2246,  
0.3287

■ 65.9469, 0.2280,  
0.3287

■ 66.6216, 0.2321,  
0.3287

■ 67.6335, 0.2382,  
0.3288

■ 69.0190, 0.2462,  
0.3288

70.8096, 0.2561,  
0.3288

73.0338, 0.2678,  
0.3289

75.7171, 0.2809,  
0.3289

78.8834, 0.2953,  
0.3289

82.5548, 0.3106,  
0.3290

# Harmonies

## Analogous

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



65.5635, 0.2649, 0.3877



65.5635, 0.2256, 0.3287



65.5635, 0.2092, 0.2770

# Triad

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



65.5635, 0.2256, 0.3287



65.5635, 0.2974, 0.2500



65.5635, 0.4156, 0.4058

# Complementary

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



65.5635, 0.2256, 0.3287



18.2297, 0.6272, 0.3299

# 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.



65.5635, 0.4286, 0.3641



65.5635, 0.2256, 0.3287



65.5635, 0.3568, 0.2788

# Square

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



65.5635, 0.2256, 0.3287



65.5635, 0.2474, 0.2379



65.5635, 0.4068, 0.3191



65.5635, 0.3746, 0.4324

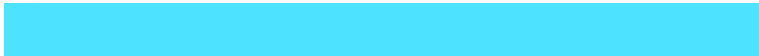


# Rectangle

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



65.5635, 0.2256, 0.3287



65.5635, 0.2116, 0.2539



65.5635, 0.4068, 0.3191



65.5635, 0.4235, 0.3929

# Sweetspot

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



65.5659, 0.2256, 0.3287



89.1914, 0.2732, 0.3289



59.6359, 0.3003, 0.5941



18.8639, 0.2688, 0.3289



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.



65.5659, 0.2256, 0.3287



78.7159, 0.2246, 0.3287



21.4991, 0.1822, 0.1706



17.1215, 0.2981, 0.3290



36.3954, 0.2246, 0.3287



2.8580, 0.2246, 0.3287



# Inverse Universe

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



24.1750, 0.3208, 0.1566



28.4776, 0.3210, 0.1542



33.0661, 0.5261, 0.4134



15.3138, 0.3138, 0.3058



13.1669, 0.3210, 0.1542

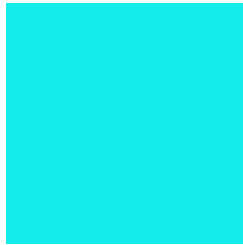


1.0339, 0.3210, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 65.5635, 0.2256, 0.3287 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

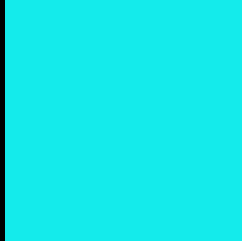
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.5635, 0.2256, 0.3287 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

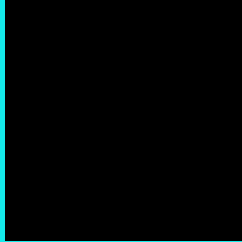
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 65.5635, 0.2256, 0.3287**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.5635, 0.2256, 0.3287.

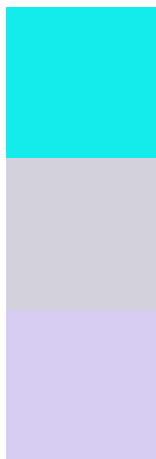


This preview shows how white text looks on a background with the Yxy color 65.5635, 0.2256, 0.3287.

# 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

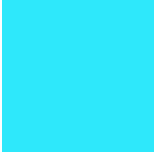
65.5635, 0.2256, 0.3287

### Protanopia

64.5643, 0.3073, 0.3177

### Deuteranopia

64.5205, 0.2949, 0.2888



## **Tritanopia**

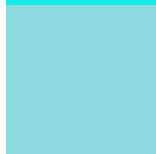
65.2591, 0.2215, 0.3049

# Trichromacy



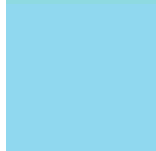
## Original Color

65.5635, 0.2256, 0.3287



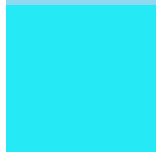
## Protanomaly

61.3298, 0.2600, 0.3201



## Deuteranomaly

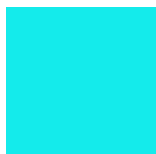
61.2730, 0.2535, 0.3008



## Tritanomaly

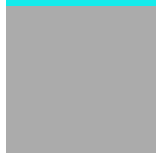
65.2637, 0.2228, 0.3135

# Monochromacy



## Original Color

65.5635, 0.2256, 0.3287



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

46.1916, 0.2579, 0.3288

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  65.5635, 0.2256, 0.3287 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(20, 235, 235)` looks like.

```
.text, #text, p{  
    color:rgb(20, 235, 235)  
}
```

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(20, 235, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 235, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 65.5635, 0.2256, 0.3287 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(20, 235, 235) }
```

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

```
.border{ border-color:rgb(20, 235, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 235, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 235, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 235, 235);  
box-shadow:4px 4px 4px 4px rgb(20, 235,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.5635, 0.2256, 0.3287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 235, 235) }
```

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

```
.background{ background-color: rgb(20, 235,  
235) }
```

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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