

# Converting Colors

$Y_{xy}(65.1991, 0.2285, 0.3382)$

Have a look what the booklet for  
Yxy(65.1991, 0.2285, 0.3382)  
contains.

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# Color

**Yxy(65.2003, 0.2284, 0.3380)**

# Conversions

## Conversions Part 1

Format	Color
Hex	17EBE4
RGB	23, 235, 228
RGB Percent	9%, 92%, 89%
CMY	0.9106, 0.0784, 0.1060
CMYK	0.90, 0.00, 0.03, 0.08
HSL	178°, 84%, 51%
HSV	178°, 90%, 92%
XYZ	44.0584, 65.2003, 83.6416
YIQ	170.8140, -124.1050, -47.1210

# Conversions

## Conversions Part 2

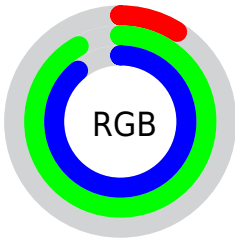
Format	Color
R <sub>Y</sub> B	23, 131, 235
Decimal	1567716
CIE Lab	84.59, -46.60, -9.74
CIE LCh	85, 47.611, 191.808
Yxy	65.2003, 0.2284, 0.3380
Android (android.graphics.Color)	4279757796 (0xFF17EBE4)
YUV	170.8140, 28.1927, -129.6329
Hunter-Lab	80.7467, -43.9104, -4.8929

# Details

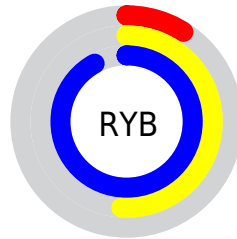
The Yxy color **65.2003, 0.2284, 0.3380** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **18.3621, 0.6204, 0.3274**, and the grayscale version is **40.5003, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6619, 0.2443, 0.3288**, and **34.8579, 0.2270, 0.3373** is the 20% darker color. If you saturate the color by 10%, you get **64.9809, 0.2275, 0.3390**, and if you desaturate by 10%, it is **65.6543, 0.2307, 0.3369**.

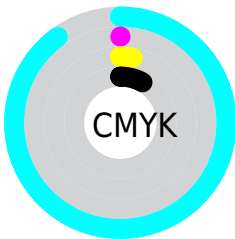
# Distribution



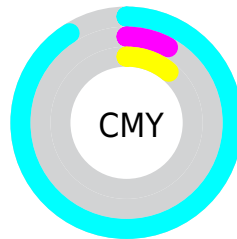
- Red (9%)
- Green (92%)
- Blue (89%)



- Red (9%)
- Yellow (51%)
- Blue (92%)



- Cyan (90%)
- Magenta (0%)
- Yellow (3%)
- Black (8%)




- Cyan (91%)
- Magenta (8%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.2003, 0.2284, 0.3380 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 65.2003, 0.2284, 0.3380 by changing the saturation by 10% instead.




 65.2003, 0.2284,  
0.3380

 65.2003, 0.2284,  
0.3380


443.5114, 0.2671,  
0.3349


 47.6235, 0.2197,  
0.3384


 112.3378, 0.2417,  
0.3371

 33.5288, 0.2090,  
0.3388


 142.6673, 0.2470,  
0.3367


 22.5319, 0.1957,  
0.3391


 178.0164, 0.2515,  
0.3364

 14.2482, 0.1787,  
0.3390

 218.7697, 0.2554,  
0.3360

 8.2935, 0.1562,  
0.3381

 265.3114, 0.2589,  
0.3357

 4.2833, 0.1257,  
0.3350

318.0260, 0.2619,

 1.8333, 0.0716,

0.3354

377.2979, 0.2647,  
0.3351

0.3303

■ 0.5078, 0.0000,  
0.2872

■ 0.0000, 0.0000,  
0.0000

■ 65.2003, 0.2284,  
0.3380

■ 65.2003, 0.2284,  
0.3380

■ 64.9809, 0.2275,  
0.3390

■ 65.6543, 0.2307,  
0.3369

■ 66.4048, 0.2349,  
0.3358

■ 67.4970, 0.2409,  
0.3347

■ 68.9664, 0.2490,  
0.3337

70.8444, 0.2588,  
0.3326

73.1588, 0.2704,  
0.3316

75.9352, 0.2833,  
0.3307

79.1971, 0.2974,  
0.3298

82.9664, 0.3123,  
0.3290

# Harmonies

## Analogous

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



65.2003, 0.2715, 0.3976



65.2003, 0.2284, 0.3380



65.2003, 0.2079, 0.2826

# Triad

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



65.2003, 0.2284, 0.3380



65.2003, 0.2881, 0.2452



65.2003, 0.4221, 0.4014

# Complementary

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



65.2003, 0.2284, 0.3380



18.3621, 0.6204, 0.3274

# 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.



65.2003, 0.4302, 0.3575



65.2003, 0.2284, 0.3380



65.2003, 0.3485, 0.2722

# Square

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



65.2003, 0.2284, 0.3380



65.2003, 0.2396, 0.2359



65.2003, 0.4026, 0.3119



65.2003, 0.3837, 0.4322



# Rectangle

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



65.2003, 0.2284, 0.3380



65.2003, 0.2079, 0.2567



65.2003, 0.4026, 0.3119



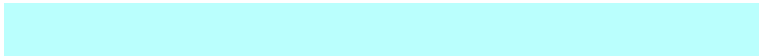
65.2003, 0.4287, 0.3875

# Sweetspot

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



65.2027, 0.2284, 0.3380



89.0517, 0.2743, 0.3313



59.7582, 0.3013, 0.5923



18.8302, 0.2700, 0.3317



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.



65.2027, 0.2284, 0.3380



78.2073, 0.2275, 0.3391



23.7821, 0.1860, 0.1831



17.1128, 0.2986, 0.3297



36.1651, 0.2275, 0.3389



2.8425, 0.2271, 0.3374



# Inverse Universe

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



18.3621, 0.6204, 0.3274



21.2785, 0.6377, 0.3287



31.6038, 0.5324, 0.4068



15.0621, 0.3288, 0.3283



9.8430, 0.6365, 0.3280

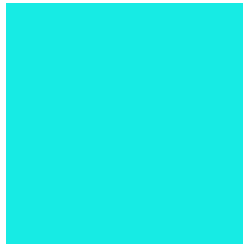


0.7758, 0.6269, 0.3227



# Previews

## White Background



This preview shows how the Yxy color 65.2003, 0.2284, 0.3380 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

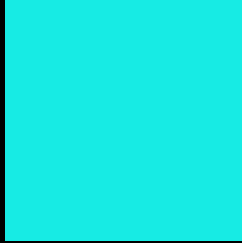
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.2003, 0.2284, 0.3380 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

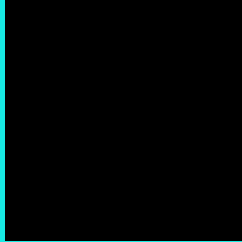
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 65.2003, 0.2284, 0.3380**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.2003, 0.2284, 0.3380.

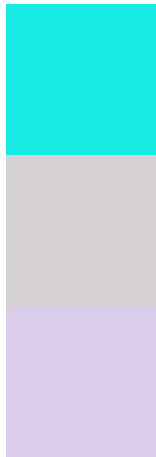


This preview shows how white text looks on a background with the Yxy color 65.2003, 0.2284, 0.3380.

# 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

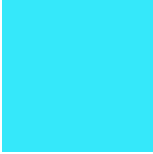
65.2003, 0.2284, 0.3380

### Protanopia

63.8623, 0.3129, 0.3245

### Deuteranopia

64.0893, 0.3017, 0.2952



## Tritanopia

65.3722, 0.2229, 0.3062

# Trichromacy



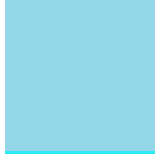
## Original Color

65.2003, 0.2284, 0.3380



## Protanomaly

61.0444, 0.2643, 0.3289



## Deuteranomaly

60.6301, 0.2585, 0.3079



## Tritanomaly

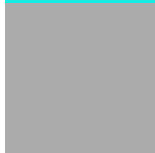
65.1809, 0.2245, 0.3172

# Monochromacy



## Original Color

65.2003, 0.2284, 0.3380



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

46.1713, 0.2597, 0.3317

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.2003, 0.2284, 0.3380 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(23, 235, 228)` looks like.

```
.text, #text, p{  
    color:rgb(23, 235, 228)  
}
```

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(23, 235, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 235, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 65.2003, 0.2284, 0.3380 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(23, 235, 228) }
```

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

```
.border{ border-color:rgb(23, 235, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(23, 235, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 235, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 235, 228);  
box-shadow:4px 4px 4px 4px rgb(23, 235,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.2003, 0.2284, 0.3380 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 235, 228) }
```

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

```
.background{ background-color: rgb(23, 235,  
228) }
```

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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